2026 - 2027

CATALOG

SOUTHWESTERN™
ILLINOIS COLLEGE

Academic Calendar

FALL SEMESTER 2026

Faculty Opening Week	Monday - Friday, August 10 - 14
Campus Classes Begin	Saturday, August 15
Online Classes Begin	Monday, August 17
Labor Day (College Closed)	Monday, September 7
Fall 2026 Graduation Application Deadline	Thursday, October 15
General Election Day (College Closed)	Tuesday, November 3
Last Day to Withdraw from Class*	Variable Dates Apply
Veterans Day (College Closed)	Wednesday, November 11
Thanksgiving Break (College Closed)	Thursday - Sunday, November 26 - 29
Final Examinations for Friday Classes Only	Friday, December 4
Final Examinations	Saturday - Thursday, December 5 - 10
Grades Due	Monday, December 14 - 4 p.m.
Winter Break (College Closed)	Wednesday, December 23 - Friday January 3, 2026

SPRING SEMESTER 2027

College Reopens	Monday, January 4
Faculty Opening Week	Monday - Friday, January 11 - 15
Campus Classes Begin	Saturday, January 16
Dr. Martin Luther King Jr. Day (College Closed)	Monday, January 18
Online Classes Begin	Tuesday, January 19
Lincoln's Birthday (College Closed)	Friday, February 12
Spring 2027 Graduation Application Deadline	Monday, February 15
Spring Break (College Closed)	Sunday - Saturday, March 14 - 20
Last Day to Withdraw from Class*	Variable Dates Apply
College Closed	Friday - Sunday, March 26 - 28
Final Examinations for Classes	Thursday - Wednesday, May 13 - 19
Graduation	Thursday, May 20
Grades Due	Monday, May 24 - 4 p.m.
Memorial Day (College Closed)	Monday, May 31

SUMMER SEMESTER 2027

Campus Classes Begin	Monday, June 7
Summer 2027 Graduation Application Deadline	Tuesday, June 15
Juneteenth Observed (College Closed)	Friday, June 18
Independence Day Observed (College Closed)	Monday, July 5
Last Day to Withdraw from Class*	Variable Dates Apply
Final Examinations	Wednesday - Thursday, July 28 - 29
Grades Due	Monday, August 2 - 4 p.m.

**Variable class withdrawal deadlines apply and are based on the meeting patterns of the class. Students should refer to their schedule in eSTORM for specific dates*

Steps for Enrolling at SWIC

1 Get a Student ID Number

Submit the New Student Information Form if you are a first time student.

Returning students can go to eStorm to retrieve their Student ID number.

Visit **swic.edu/course-info** for more information on course enrollment and Refund Policy.

2 Submit Documentation & Meet with an Advisor

Meet with an Academic Advisor to discuss degree or certificate requirements, course placement, and class selection.

Prepare for your visit by setting up your eSTORM and SWIC email accounts.

Show proof of residency at Enrollment Services.

Send official high school and/or college transcripts to Enrollment Services or electronically through Parchment, eSCRIP-SAFE or Joint Services Transcripts.

3 Make Payment Arrangements

Apply for financial aid, military benefits, SWIC scholarships, or make payment arrangements.

Note: Enrollment information and course listings in this schedule are subject to change. For the most current information, view the class schedule at **estorm.swic.edu** or check with a SWIC academic advisor.

View course descriptions at estorm.swic.edu.

Additional Student Services:

- Payment plans
- Disability services
- Career services
- Tutoring
- Campus activities
- Athletics
- Clubs and organizations
- Libraries
- Noncredit classes
- Campus security
- Veteran services
- Senior programs

HELPFUL TIP:
Get Your Student ID, Parking Sticker and Metro Pass through Public Safety.

Board of Trustees

The Community College District 522 Board of Trustees consists of eight members:

- *Seven are elected from geographic sub-districts for four or six-year terms.*
- *One student is elected by the student body for a one-year term.*

Steve Campo
Chair
Belleville

Mark Morton
Vice Chair
O'Fallon

Eric Edgar
Swansea

Sean McPeak
Freeburg

Nick Raftopoulos
Granite City

Dane Tippett
Troy

Tracy Vallet
Red Bud

Zoyalyn Stoll
Student Trustee

Welcome

To our newest members of the SWIC community,

Thank you for choosing Southwestern Illinois College! Transition can be overwhelming, and whether you are a new student from an area high school or an adult learner looking for a change, we at SWIC want to make sure you have the tools and resources you need to succeed. Your success is our success.

I encourage you to take time to connect with your peers, your instructors, campus life, and other student organizations. These connections will drive you, shape your experience here, and set you on the path toward your future.

We welcome you to our campus community and look forward to helping you achieve your goals.

Nick J. Mance
President, Southwestern Illinois College

Core Competencies

In our commitment to offering a quality and well-rounded education for all students, SWIC graduates will master a set of established Core Competencies throughout their courses.

Citizenship Skills

Recognize and assess the implications of behaviors to ourselves and the community, and adapt as needed.

Communication Skills

Convey clear and appropriate information that enhances audience understanding – either verbally, electronically, or in writing.

Reasoning Skills

Organize, evaluate, and apply information to express useful ideas.

Important Phone Numbers

Campus
618-235-2700

Advising and Enrollment Services
618-235-2700, ext. 5455

Financial Aid
618-235-2700, ext. 5288

IT Help Desk
618-222-SWIC (7942)

Public Safety
618.235.2700, ext. 5221

Many Locations, One Mission

Belleville Campus

The campus offers more than 100 University Transfer and Career/Technical programs ranging from Accounting to Welding. Unique programs and facilities includes the Health Sciences programs, Music Technology and Recording Studio, the William & Florence Schmidt Art Center, the eSports center and a MetroLink station.

Red Bud Campus

The diverse credit class offerings are aimed at helping students transfer to a four-year college or university or to gain skills to move directly into the workforce. Services such as the Library and Success Center help enrich the academic experience for students.

Sam Wolf Granite City Campus

The campus was named in honor of the late college trustee and longtime legislator Sam Wolf. The academic offerings of the campus meet the educational needs of the northern part of the college district. The state-of-the-art advanced manufacturing training facility helps meet the workforce training needs of local industry.

BELLEVILLE CAMPUS

RED BUD CAMPUS

SAM WOLF GRANITE CITY CAMPUS

Many Locations, One Mission

Wyvetter H. Younge Higher Education Campus (East St. Louis)

SWIC offers numerous career/occupational certificate programs such as Nurse Assistant, Forklift Training, Phlebotomy, Practical Nursing, Heating, Ventilation Air Conditioning and Refrigeration and Welding Technology, as well as Adult Education and Literacy classes at the campus. The facility is located within walking distance of a MetroLink station.

Programs & Services for Older Persons

PSOP provides a wide variety of services, programs and activities including travel, health and wellness, entertainment and volunteer opportunities for adults age 55 and older to help them remain independent, active and healthy.

Scott Air Force Base

Military personnel and civilians are able to take classes at Scott Air Force Base. Students can register, drop/add courses, use the state-of-the-art computer lab, and submit paperwork for veterans assistance and military tuition assistance.

Southwestern Illinois Justice & Workforce Development Campus

In this newly renovated facility, the Police Academy has a new state of the art physical fitness center (2024); onsite housing and meal services; training rooms equip for Scenarios, Control and Arrest Tactics and Simunition training; and “Smart” Classrooms equipped with technology such as Promethean interactive display boards allowing instructors to access information online for classroom use. Additionally, each recruit has a laptop or desktop computer at their workstation during class with which to take notes and view instructor and class materials.

Off-Campus Sites

Anderson Hospital
Belleville Off-Campus
Belleville Off-Campus Clinic
Belleville Township High School East
Belleville Township High School West
Body Therapy Center
Clinical Sites
Collinsville High School
Columbia High School
East St. Louis Community Center
Freeburg High School
Clay Baitman Fire Science Training Center
Granite City Off-Campus Site
Highland Middle School
Highland High School
Hospital Sites
Memorial Hospital
O’Fallon Township High School
Red Bud Off-Campus Site
Saint Louis University
Southern Illinois University Edwardsville
St. Elizabeth Hospital
Waterloo High School

Financial Aid, Veteran Services, and Student Employment

1. What is Financial Aid?

Money to cover educational costs:

- Tuition
- Fees
- Books
- Housing & Food
- Other Living Expenses

2. Types of Aid

- Federal Grants & Loans
- State Grants & Scholarships
- Veteran Education Benefits
- On-Campus Student Employment
- Scholarships

3. Financial Aid Process & Timeline

FILE FAFSA

Student completes Free Application for Federal Student Aid for each academic year.

COMPLETE TO-DO ITEMS

Student notified through student email and eSTORM Student Center of missing items.

AUTHORIZE BOOKSTORE CHARGES

After packaged, student accepts financial aid and authorizes charges with the BIG GREEN BUTTON.

AID IS DISBURSED TO STUDENT ACCOUNT

Financial aid is applied to student account starting week six of fall/spring semester.

4. Scholarships

Foundation Scholarships

- 300 Plus
- Apply through eSTORM
- Continuous awarding of unused funds

Visit **swic.edu/community/foundation/scholarships/** to learn about more scholarship options.

2026 Faculty Members of the Year

Dr. Carla Bills

Full-Time Faculty Member of the Year

Dr. Carla Bills, our Full-Time Faculty Member of the Year, is a Psychology Professor and the Behavioral Sciences Department Chair. As one of the greatest supporters of faculty growth, she encourages all instructors to engage in faculty development and wraparound support to improve student success. She is a reflective practitioner, who leads with positivity, who always seeks to find consensus to directly affect the improvement of morale within the college.

Brianne Foster

Part-Time Faculty Member of the Year

Brianne Foster, our Adjunct Faculty Member of the Year, is an Adjunct Instructor in the English Department. As an active participant in college initiatives and committees, she is a student-centered educator who involves all aspects of our institution in her teaching such as tutoring, Success Coaching, and our Library. She promotes participation in research in order to broaden her students' perspectives beyond the classroom.

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Glossary of College Terms

Academic Advisor: A trained professional who helps students decide what courses to take, clarifies degree requirements, and aids in assessing progress toward degree and certificate completion. Academic advisors are available to assist students in person at the Belleville and Sam Wolf Granite City campuses as well as provide assistance remotely through Teams and via email.

Accreditation: The certification that a school or program meets a set of quality standards. SWIC is accredited by the Higher Learning Commission, one of six regional accreditation associations in the United States. In addition, many SWIC programs are individually accredited by professional organizations.

Adjunct Instructor: A faculty member who is employed by the college to teach on a part-time basis. These instructors often currently work in the field in which they are teaching.

Admission Requirements: The educational background and/or academic abilities that a student must demonstrate before being fully admitted into a particular instructional program. PLEASE NOTE THAT ADMISSION REQUIREMENTS DO NOT PREVENT A STUDENT FROM ENROLLING AT SWIC. For more information about admission requirements, see the *Admission Information* section in this catalog.

Adult Education: Courses and programs designed to enable students to improve basic literacy skills, earn a high school diploma credential, obtain vocational training or improve their English skills as an English as a Second Language learner.

Advanced Placement (AP): A program of college-level courses offered to advanced high school students that leads to a final exam administered by the College Entrance Examination Board. SWIC will grant credit to students who achieve scores of three or higher on the final exams. See the *Advanced Placement* section.

Articulation Agreements: An arrangement between two educational institutions that defines a process for the equating of their courses for transfer purposes. SWIC has articulation agreements with many colleges and universities.

Associate Degree: A type of college degree offered by community colleges throughout the United States. At SWIC, most associate degrees consist of three parts: general education requirements, major requirements and electives.

Associate in Applied Science (AAS): An associate degree that is designed to prepare students to enter the job market immediately after graduation. Students in "career" or "occupational" programs are generally working toward the completion of AAS degrees.

Associate in Arts (AA): An associate degree that provides the first two years of study for students who plan to pursue a bachelor's degree in the areas of Business, Communications, Education, Humanities or the Social Sciences.

Associate in Engineering Science (AES): An associate degree that provides the first two years of study for students who plan to pursue a bachelor's degree in the area of Engineering or another closely related field.

Associate in Fine Arts (AFA): An associate degree that provides the first two years of study for students who plan to pursue a bachelor's degree in the areas of Art, Music Education or Music Performance.

Associate in General Studies (AGS): An associate degree for students whose interests and educational objectives do not fall within either a traditional transfer or occupational program.

Associate in Science (AS): An associate degree that provides the first two years of study for students who plan to pursue a bachelor's degree in areas such as Biology, Environmental Science, Mathematics, Chemistry or Physics.

Bachelor's Degree: A degree awarded by a college or university to a person who has completed undergraduate studies in a specific subject. Also known as a four-year degree. SWIC does not award Bachelor Degrees.

Career Programs: One- or two-year occupational programs leading directly to employment. Students completing one-year career programs receive Certificates of Completion; students completing two-year programs receive the Associate in Applied Science degree.

Career/Technical Programs: Academic programs that prepare students to enter the workforce immediately after graduation.

Certificates: Academic programs ranging from 2 to 59 semester credits that provide students with the basic skills necessary to gain entry-level employment in a specific career field.

College Level Examination Program (CLEP): A series of exams administered by the College Level Examination Board that is designed to assess students' college-level knowledge and skills. CLEP exams are of two types, General and Course Specific. Please see the CLEP section of this catalog.

Coordinator: A faculty member who is designated as the academic leader of a specific set of career programs.

Course: A particular component of a subject selected for study. A course is identified by a course number: for example, ENG 101 or PSYC 151.

Course Description: Information about a course, including its semester credits, requisites (if any), general requirements and the subject areas it covers. Course descriptions can be found in the *Course Description Guide* section of this catalog.

Course Fee: A charge in addition to tuition costs to cover supplies or equipment usage in a classroom.

Course Load: The number of semester credits a student carries in a given semester.

Curriculum: A group of courses planned to lead to some specific competence in a field of study and to a certificate or associate degree. For example, a computer science curriculum.

Dean: The administrative leader of the faculty for a specific academic division of the college.

Department Chair: A faculty member who is designated as the academic leader of the faculty in a transfer-oriented college department.

Developmental Course: A pre-college-level course numbered less than 100 that develops skills in reading, writing, or mathematics, and prepares students for college-level English or mathematics. Credits earned in developmental courses do not count toward graduation but may meet the math requirements for some occupational programs.

Drop for Nonpayment: Failure to pay in full or to make the required down payment for tuition and fees by a specified due date may result in your class(es) being dropped.

Dual Credit: A college course offered at the high school campus during normal school hours. Through a partnership agreement with the high school, students earn both high school and college credit simultaneously. There is no fee for these courses to the high school or the students. Students must meet minimum requirements to enroll in these classes.

Dual Enrollment: High school students meeting minimum requirements as established by the SWIC Board of Trustees who enroll in traditional college courses offered online or on any campus. All college fees and tuition are applicable.

Elective: Any course not specifically required for a program of study but counting as credit toward a degree or certificate.

ESL: An acronym for English as a Second Language. Describes courses or programs designed to develop proficiency in the use of English for a person whose first language is not English.

eSTORM Services: The Southwestern Total Online Records Management service allows students to log on and enroll, drop classes, make a payment, view or print their course schedule, verify enrollment, view final grade report and unofficial transcripts, and manage account statement.

Financial Aid: Financial aid, in its simplest definition, is financial assistance intended to aid students in reaching their educational goals. This assistance may come in a variety of forms such as grants, scholarships, work-study and loan programs. Information about financial aid programs at SWIC can be found in the *Financial Aid and Scholarships* section of this catalog.

Financial Aid Advisor: A trained professional who assists students in applying for financial aid and interpreting financial aid information.

Full-Time Student: A student enrolled in at least 12 semester credits during the fall or spring semester, or at least six semester credits during the summer term. For financial aid purposes, a student must be enrolled in 12 semester credits to receive a full-time award.

General Education: The required component of each associate degree program that develops breadth of knowledge and the communication skills essential to more complex and in-depth learning throughout life. The academic disciplines comprising the general education curriculum are communications, mathematics, the physical and life sciences, the humanities and fine arts, and the social sciences.

Grade Point Average (GPA): A student's grade point average is a measure of a student's academic achievement in college-level courses. A student's GPA at SWIC is calculated by multiplying the credits each course is worth by the grade points (A=4, B=3, C=2, D=1, F=0) earned for the course, then dividing the total grade points earned by the total number of hours attempted, excluding those courses in which a grade of I, W, PR, AU, CR, PC, SC and P was received. Note that courses numbered below 100 are not considered when calculating the SWIC cumulative grade point average regardless of the grade received.

Graduation Requirements: The designated set of courses that must be successfully completed in order for a student to earn a particular associate degree or certificate.

Grant: A type of financial aid, commonly referred to as "gift aid," because it does not have to be repaid. This aid type is usually based on need. See the *Financial Aid and Scholarships* section of this catalog for more information.

High School Diploma: The classes offered to help students who have not completed their formal high school education. These classes prepare students for the High School Diploma Exam. With the High School Diploma, students qualify for admission to colleges or other educational institutions, fulfill requirements of local or state licensing boards, and meet educational qualifications for induction into the armed services.

Human Well-Being: A field of study that emphasizes increasing knowledge, applying skills and developing lifelong habits for health.

Hybrid Classes: Classes in which students complete some class hours by way of the internet and meet in a classroom setting for the remaining hours.

Illinois Articulation Initiative (IAI): A statewide agreement that facilitates the transfer of general education and major course credits between two- and four-year colleges and universities. For more details about the IAI, see the *Transfer Information* section of this catalog.

IAI General Education Core Curriculum (IAI GECC): Successful completion of this set of 12 to 13 courses (37 to 41 credits) at SWIC will guarantee satisfaction of all lower-level general education requirements upon transfer to any participating college or university in Illinois.

International Baccalaureate (IB) Diploma Programme (DP): Diploma Programme curricula is for students aged 16-19. It includes a wide variety of subjects. SWIC will grant credit for DP courses when students provide official documentation for scores of four or better to Enrollment Services.

Joint Agreement: A resident of Community College District 522 desiring to enroll in a curriculum or program not available at SWIC may attend another community college in Illinois which offers that curriculum as long as a joint agreement is approved.

Major: A field of study in which a student specializes.

Off-Campus Sites: A location separate from the three SWIC campuses, such as a high school or community center, within Community College District No. 522, where the college offers college-credit and noncredit courses.

Online Classes: Classes in which students complete their course-work by way of the internet. It should be noted that some online instructors require students to participate in on-campus orientation and/or take exams on campus or at an approved testing site.

Part-Time Student: A student enrolled in fewer than 12 semester credits during the fall or spring semester, or fewer than six semester credits during the summer term. For financial aid purposes, a student must be enrolled in six semester credits to be considered part time during the summer term.

Placement Test: SWIC uses computerized assessments of students' reading, writing and math skill levels to assist in the placement of students into courses appropriate to their current academic abilities.

Refund Period: A limited time frame (within 8 calendar days of start of class) in which students may officially drop classes and receive a full or partial refund/credit. Specific information may be found each semester online at swic.edu/refund-policy.

Registration: The process of selecting courses, completing college forms, and paying tuition and fees, all of which should be completed prior to the beginning of classes each semester. For more information, see the *Registration* section of this catalog.

Requisites: Requirements that must be met and/or courses that must be taken to enroll in a specific course. Requisites for each course are listed as part of its course description in the *Course Description Guide* of this catalog.

Running Start: A program through which highly qualified high school juniors and seniors earn their high school diploma and community college associate degree concurrently.

Scholarships: Monetary awards given to students in recognition of outstanding academic achievement and/or financial need. More information about scholarships is available in the *Financial Aid and Scholarships* section of this catalog.

Semester: An academic period of study. At SWIC, fall and spring semesters are each 16 weeks in length. Summer terms, on the other hand, are only eight weeks long so weekly class times are doubled.

Semester Credits: Units of measurement of academic credit, usually determined by the number of hours a class meets per week, earned at SWIC during periods of study that are 16 weeks in length or the equivalent, such as the accelerated summer session.

State Seal of Biliteracy: Southwestern Illinois College will accept the State Seal of Biliteracy as equivalent to two years of foreign language coursework taken during high school if a student's high school transcript indicates that he or she will be receiving or has received the State Seal of Biliteracy.

Student Loan: An awarding of money to students in need of financial assistance that must be repaid. For more details about student loans, see the *Financial Aid and Scholarships* section of this catalog.

Syllabus: A summary or list of the main topics of a course of study, text or lecture usually given to students by each instructor at the beginning of each semester.

TBA (To Be Arranged): Courses for which the meeting days, times, and/or locations have not been established at the time the Semester Class Schedule goes to print or is posted on the website. Students should contact the applicable instructor, department or program to obtain more information about courses listed as TBA Online courses also have a TBA listed on the printed course schedule, but online courses require no specific days or times for students to attend.

Transcript: An official document that is the record of a student's academic performance. It includes the courses taken, the grades earned, and the cumulative grade point average.

Transfer Student: A student who plans to transfer to a four-year college or university in order to earn a bachelor's degree. While at SWIC, transfer students generally pursue one of the following degrees: Associate in Arts, Associate in Fine Arts, Associate in Science, or Associate in Engineering Science. However, students who earn an Associate of Applied Sciences also can transfer.

Tuition: The amount of money charged to a student for each class, usually per semester credits. For more information about tuition, see the *Tuition* section of this catalog.

University Transfer: A degree that is the first two years of study toward a bachelor's degree. It is designed to transfer credits in a specific field of study to a four-year academic institution.

Video Conference Classes: College-level classes that are taught simultaneously at multiple sites and linked through two-way audio and video communication. The instructor of a video conference class teaches directly to students at one site while students at other sites participate fully in the class via telecommunication connections.

Web-Enhanced Classes: Classes in which students meet in a classroom setting during all class hours, but make use of the internet for communication, out-of-class assignments and/or learning resources.

Wellness Advocates:
Wellness Advocates (Licensed Clinical Social Workers) provide confidential counseling, crisis intervention, and referrals to campus and community resources for students dealing with a variety of challenges.

Work-Study: A program funded by the federal government and the college in order to provide part-time student work opportunities at each campus. Full- and part-time students in need of financial assistance may apply for work-study. More details about work-study are available in the *Financial Aid and Scholarships* section of this catalog.

Frequently Called Telephone Numbers at the College

Belleville Campus	618-235-2700
Red Bud Campus	618-282-6682
Sam Wolf Granite City Campus	618-931-0600
East St. Louis Community College Center	618-874-6592
TOLL FREE FROM ILLINOIS	866-942-SWIC (7942)

OFFICE	EXTENSION
Academic Advising Belleville	5186
Academic Advising Sam Wolf Granite City	7316
Adult Education and Literacy	5258/7397/8001/874-6372
Alternative Transportation System	239-0749
Art Center, William & Florence Schmidt	5278 (5ART)
Athletics	5271
Bookstore Belleville	5334
Bookstore Sam Wolf Granite City	7379
Cafe Belleville	5549
Career Services	5562
College Activities	5561
Community Education	5393
Computer Support Help Desk	4357 (HELP)
Disability & Access Center	5368
Dual Credit	5709
Enrollment Services	5455
eSTORM Help Line	222-SWIC (7942)
Faculty Development	5440
Faculty Technology	5737
Financial Aid	5288
Foundation scholarships	5663
High School Diploma Program	5525/7397/8001/874-6277

Scott Air Force Base Office	618-746-4200
	or 618-746-2166
SAFB National Testing Center	618-641-6677
Programs and Services for Older Persons	618-234-4410
Belleville Campus TDD	618-234-3347

OFFICE	EXTENSION
Human Resources	5372
Industrial Technology Center	7475
Instructional Technology	5737
Library Belleville	5204
Library Red Bud	8190
Library Sam Wolf Granite City	7354
Online Learning	5737
Payment Information	5367
Programs & Services for Older Persons	7011
Public Information and Marketing	5258
Public Safety	5221/7372
Registration Information	5217/6615/8114
Running Start	5064
Schmidt Art Center	5278 (5ART)
Student Accounts	5367/6640/8114
Success Centers	5495/7307/8138
Testing Centers	5551/7364/8134
Transcripts	5455
TRIO Student Support Services	7443
Tuition information	5367/6640/8114
Veteran Services	5288
WIOA Services	5562

Frequently Asked Questions

- *How much is tuition at the college?*

See the *Tuition and Fees* section of this catalog or swic.edu/tuition-fees for updated information.

- *What other costs are there?*

Other expenses to consider are course fees for consumables or First Day Program textbook fees and technology fee. More information is available in the *Fees* section of this catalog.

- *Will my classes transfer to another college or university?*

Many SWIC courses are intended to transfer. These courses are identified in the *Course Description Guide* with the letter T, though many C (Career) courses transfer. For specific information about transferring, see an academic advisor prior to choosing your classes each semester. Also see the *Transfer Information* section in this catalog or visit itransfer.org for additional information.

- *How can I get help with college expenses?*

Refer to the *Scholarships, Financial Assistance, WIOA, and Career Services* sections in this catalog to check eligibility for SWIC scholarships, community scholarships, transfer scholarships, veterans' services, student employment and/or state and federal financial aid.

- *Are there services available to adults returning to SWIC after their traditional college years are behind them?*

Refer to WIOA and Career Services. Personal Advocate Linking Services (PALS) supports and encourages all students' endeavors toward academic and career success. There are personal advocates at all campuses and they support students with their successful transition into college. The program also encourages ongoing support to current students for completion of personal and academic goals.

- *Where can I go for assistance in finding a job while I'm a student?*

Assistance is available from both the Financial Aid Office (on-campus jobs) and the Career Services Office (off-campus jobs). Career Services provides job search assistance such as resume and portfolio preparation, interviewing skills, and many other workforce readiness skills.

- *Are tutoring services available?*

Free tutoring is offered in the Success Centers at campuses either in-person or via online for current SWIC students enrolled in the course for which they seek tutoring. Tutor schedules are available at each of the Success Centers and at swic.edu/successcenter/.

- *How do I request accommodations for a disability?*

SWIC is committed to providing equal access to qualified students with disabilities. Contact the Disability & Access Center to request and receive accommodations and support services.

- *What types of extracurricular activities are offered?*

Educational and cultural events and a wide variety of clubs and organizations are available at SWIC for students, faculty, staff and the community. A broad range of intercollegiate and intramural athletics are available also.

- *What are the different types of degrees offered at the college?*

The degrees available to students who plan to complete a bachelor's degree after transferring to another college or university are the Associate in Arts, Associate in Fine Arts, Associate in Engineering Science and Associate in Science. The degree available to students who plan to enter the workforce immediately upon graduation is the Associate in Applied Science. For additional information about degrees as well as certificate programs, see the *SWIC Programs* section in this catalog.

- *What is the average class size at SWIC?*

While class sizes vary, the student/teacher ratio is 18-to-1, which makes it easy to get individual attention from your instructors.

- *How do I know which classes to take first?*

Academic advisors are available to assist in selecting classes each semester. Visit Career Services to take interest assessments to help determine with path is right for you!

- *How do I get a Student ID number?*

Your Student ID number will be generated upon completion of your New Student Information Form. If you complete the form online, you will receive an email confirmation with this number. You can request your student ID number at the eSTORM login page or access the student ID number request form at estorm.swic.edu or in person with a photo ID. You need a student ID number to access your student email.

- *Do I need a Student ID card and, if so, where do I get one?*

SWIC students are entitled to an identification card. The identification card is optional but is required to receive the following services: Library card/Internet access, open computer lab access, discounts at the bookstore and Café (when offered), College Activities reduced purchases, free pass to Athletic events, ridership on the St. Clair County District Transit Authority MetroBus and MetroLink, Madison County Transit Bus System, book buyback, etc. Identification cards are available through the Public Safety office at the Belleville and Sam Wolf Granite City campuses, and at the Student Development Office at the Red Bud Campus.

- *How do I get my transcript?*

Students may request transcripts through the college website (swic.edu). Students can also request an official transcript via eSTORM services. For more information, see the *College Transcripts* section in this catalog.

- *What is SWIC Alert?*

This free emergency alert system sends text messages and/or emails to students and employees. Text messaging is an opt-in notification system where a text message can be received on your mobile phone. SWIC does not charge for this service; however, the only cost is what the cell phone carrier charges to receive text messages. You may choose to receive text messages or emails for a specific campus or all campuses. Once enrolled, your account is active for one year. You will receive notice 30 days before your enrollment will expire.

Frequently Asked Questions (continued)

- *How do I sign up for SWIC Alert?*

Log in to your eSTORM account at estorm.swic.edu; click Main Menu in the upper left; scroll over SWIC Alert and choose SWIC Alert Signup

- *How can I find out if the college is closed or has a delayed opening due to inclement weather?*

Information regarding the use of the Snow Schedule or closure due to weather conditions will be sent via SWIC Alert, posted on the college's homepage and broadcast on these stations:

Television	Radio	Website
FOX 2 (KTVI)	KMOX-AM 1120	swic.edu
KMOV-TV Channel 4	WHCO-AM 1230	facebook.com/swic.edu
KSDK-TV Channel 5	WIL 92.3	

See the *College Closing Policy* section of this catalog for more details.

Students may sign up on eSTORM for SWIC Alert, an emergency alert system designed to notify students and employees by email or text message of campus closure due to inclement weather or other emergencies.

- *Can I take college classes if I'm still in high school?*

High school students age 16 and older who have authorization to participate in college courses and programs may enroll. See the *General Admission* section in this catalog for more information.

- *Where do I get a parking permit?*

For students, faculty and staff, parking is by permit only on the Belleville and Sam Wolf Granite City campuses. Permits are free and are issued by the Public Safety departments on those campuses or through the Student Development Office at the Red Bud Campus. Students attending the East St. Louis Community College Center must obtain a SWIC parking permit for that site. SWIC parking permits can be obtained in Bldg. A, Room 1003. For more information, see the *Parking/Traffic Enforcement* section in this catalog.

- *When do I apply for graduation?*

Students need to apply for graduation by the following dates: Oct. 15 for fall graduation; Feb. 15 for spring graduation; June 15 for summer graduation.

The William and Florence Schmidt Art Center

Spanning 6500 square feet, the William and Florence Schmidt Art Center, located on the Belleville campus of Southwestern Illinois College, facilitates visual literacy through exhibitions of art and cultural artifacts while igniting inspiration, imparting knowledge, and fostering connections between the college and the local community.

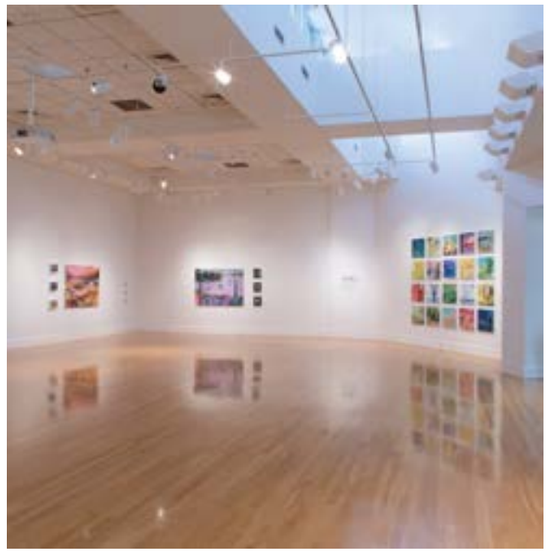
Throughout the year, the Schmidt Art Center presents an array of exhibits featuring artwork created by established professionals and emerging artists from the metro area and beyond. The center also hosts cultural events, collaborating with professional artists, poets, and musicians. With a collection of over nine hundred works, the Schmidt Art Center holds the most extensive art collection of any two-year college in Illinois, encompassing paintings, photographs, sculptures, and artifacts.

The Schmidt Art Center offers various non-credit courses through the Schmidt Art Center Academy, which invites the community to explore creativity and engage with like-minded individuals. From the captivating lens of digital photography to the intricate threads of sewing to the immersive realms of book clubs and more, it establishes an environment where artistic discovery and connectivity flourish.

Whether you're looking to develop your artistic abilities, engage with a creative community, or appreciate the beauty of art, the Schmidt Art Center provides a welcoming and enriching experience.

618-222-5278

www.swic.edu/theschmidt



SWIC Core Values: Student Success and Accountability

Student Success

SWIC is dedicated to student success, which occurs when students identify and achieve educational goals and acquire lifelong learning skills within an encouraging environment of quality instruction and effective student support services. Thus, student success is a partnership between the institution and the student to foster an environment in which:

- Students are assisted in defining and accomplishing realistic academic, personal and career goals for the present and the future.
- Students are inspired to become self-motivated lifelong learners who are ultimately responsible for their learning.
- Students are taught proficiencies in communication, reasoning skills and citizenship needed to function competently in an increasingly interdependent, culturally diverse world.
- Students are provided support services to enhance their educational process and quality of life.
- Students are encouraged to explore a diverse range of ideas and experiences.
- Students become more knowledgeable about themselves and their communities.

The college is committed to regular evaluation of our effectiveness and the assessment of student learning is an integral component of the educational experience at SWIC. To ensure that the needs of the students and the community are met, the college conducts classroom, program and collegewide studies of student attitudes, achievement and satisfaction. In addition, the college regularly assesses its educational programming and services. To conduct useful institutional analysis, all students who are randomly selected for these assessments are expected to participate. When possible, the college will provide feedback about the student's individual performance, along with other data available, such as local and national norms. Full participation helps SWIC meet our core values of educational excellence and student success.

Accreditations

Accreditation means SWIC has met the standards identified by the agencies/boards listed below and assures the public that our curriculum prepares competent graduates.

SWIC has been approved as a Class I Community College by:

- Illinois Community College Board
- Illinois Board of Higher Education
- Illinois State Board of Education
- Illinois Department of Veterans Affairs

SWIC education programs are accredited or recognized by:

- American Culinary Federation Eduational Institute
- American Design Drafting Association
- American Society of Clinical Pathologists
- Commission on Accreditation of Allied Health Education Programs (CAAHEP), 25400 U.S. Highway 19 North, Suite 158, Clearwater, FL 33763, 727-210-2350
- Commission on Accreditation in Physical Therapy Education, (CAPTE), 3030 Potomac Ave, Suite 100, Alexandria, VA 22305-3085, 800-999-2782, accreditation@apta.org, http://www.capteonline.org
- Commission on Accreditation for Health Informatics Management Education
- Commission on Accreditation for Respiratory Care (CoARC), 817-283-2835, www.coarc.com
- Committee on Accreditation of Educational Programs of the Emergency Medical Services Profession (CoAEMSP), 8301 Lakeview Parkway, Suite 111-312; Rowlett, TX 75088
- Federal Aviation Administration
- Illinois Department of Finance and Professional Regulation, 100 W. Randolph, Suite 9-300, Chicago, IL 60601, 312-814-4500
- Illinois Department of Public Health
- Illinois Department of Transportation
- Illinois Local Governmental Law Enforcement Officers Training and Standards Board
- Illinois State Fire Marshal
- International Fire Service Accreditation Congress
- Joint Review Committee for Education in Radiologic Technology
- National Accrediting Agency for Clinical Laboratory Sciences, 5600 N. River Road, Suite 720, Rosemont, IL 60018, 773-714-8880, www.naacls.org
- National Institute for Metalworking Skills
- Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road, NE, Suite 850, Atlanta, GA 30326, 404-975-5000

SWIC is a member of:

- American Association of Community and Junior Colleges
- American Association for Paralegal Education

The Higher Learning Commission

SWIC is accredited by the Higher Learning Commission. The college has held this accreditation since 1961. The commission is located at 230 S. LaSalle St., Suite 7-500, Chicago, IL, 60604-1411. The commission's telephone number is 800-621-7440.

To view the college's Statement of Affiliation status, go to www.hlcommission.org.

Equal Opportunity and Affirmative Action

SWIC is committed to equal educational and employment opportunity and affirmative action. SWIC administers its programs, services, and employment opportunities without regard to race, creed, color, sex, religion, national origin/ancestry, disability, sexual orientation, veteran status, or age. Affirmative action is taken as appropriate. In addition, it is the policy of SWIC to make every reasonable effort to accommodate individuals with disabilities.

The college complies with federal and state legislation which includes but is not limited to, Titles VI and VII of the Civil Rights Act of 1964, Executive Order 11246, the Equal Pay Act of 1963, the Age Discrimination in Employment Act of 1967, Title IX of the Education Amendments Act of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, the Vietnam Era Veterans' Readjustment Assistance Act of 1974, Titles VII and VIII of the Public Health Service Act, the Illinois Human Rights Act, the Americans with Disabilities Act, the University Religious Observances Act, and related state laws.

Inquiries regarding equal opportunity and affirmative action in student services, academic affairs, and employment issues are handled by the same office for all campuses and instructional sites within the community college district. Contact the Chief Student Services Officer by calling 618-235-2700, ext. 5566, sending an email to TitleIX@swic.edu or visiting the Office of the Chief Student Services Officer, Information Sciences Building Room 1145, 2500 Carlyle Avenue, Belleville, IL 62221.

Notice of Non-discrimination

SWIC ensures that equal educational opportunities are offered to students regardless of race, color, religion, sex (including pregnancy, gender identity and sexual orientation), national origin, age, disability or genetic information, or veteran status. Questions in reference to equal educational opportunities may be directed to the Chief Student Services Officer, Southwestern Illinois College, Belleville Campus, Information Sciences Building, Room 1152, 2500 Carlyle Ave., Belleville, IL 62221, 618-235-2700, ext. 5120.

The Successful Student Core Competencies

When you graduate from SWIC, you will have practiced these skills in many of your classes

Reasoning Skills: Organize, evaluate, and apply information to express useful ideas.

Communication Skills: Convey clear and appropriate information that enhances audience understanding - either verbally, electronically, or in writing

Citizenship Skills: Recognize and assess the implications of behaviors to ourselves and the community, and adapt as needed

Tuition and Fees

Tuition -

swic.edu/tuition-fees

Tuition and fees are subject to change at any time.

Fees

Fees are subject to change at any time by action of the Southwestern Illinois College Board of Trustees.

College-credit classes include a mandatory course fee, charged to cover the cost of supplies or equipment usage in a classroom. The course fee amount varies by individual course dependent on classroom expenses. Course fee amounts may be found in the Class Schedule online or on eSTORM.

Physical and Financial Hardship Appeal

SWIC recognizes that students may face hardship or other extenuating circumstances that may hinder attendance and/or academic performance These circumstances might lead students to consider withdrawing from classes. Students should discuss the impact of withdrawing from courses with their advisor before making any registration adjustments. Students who withdraw from courses because of hardship may request assistance by submitting the Physical and Financial Hardship Appeal Request along with supporting documentation. A hard copy or pdf of the Physical and Financial Hardship Appeal Request is available if students are unable to access the online form. The submission of this form does not automatically result in assistance. The Physical and Financial Hardship Committee will review all appeals. Students are notified of the decision through their SWIC student email.

Consumer Statement

swic.edu/consumer-information/

SWIC Student Handbook

swic.edu/student-handbook/

SWIC provides specific consumer, textbook and gainful employment information to current and prospective students through the college website and printed materials. For a printed copy of the catalog, visit the Enrollment Services office at the Belleville Campus, Information Sciences Building, Room 1115; Sam Wolf Granite City Campus, Center for Student Development, room 440; or the Red Bud Campus, Student Development Office, room 175. For a printed copy of the Student Handbook, visit the office of the Chief Student Services Officer, Belleville Campus, Main Complex, room 1246A. To find textbook information, visit the Barnes & Noble bookstores at the Belleville Campus, Liberal Arts Complex, room 1116; or Sam Wolf Granite City Campus, room 210, adjacent to The Commons.

Financial Responsibility

By registering for classes at Southwestern Illinois College, the student accepts full financial responsibility for payment of the term tuition and fees, as well as associated costs related to registration and/or other SWIC services, by the applicable deadlines. The student understands that should you default on your account, SWIC may use any and all means necessary to collect this debt in accordance with state and federal laws. This may result in the referral of your SWIC account to an external collection agency, legal action by the college to collect the debt, and other financial

consequences that the student is further responsible, which may include but are not limited to attorney's fees, late fees, and litigation costs associated with the collection of the debt.

Tuition Payment and Payment Plans

Payment may be made in person, online, by mail or by phone. Tuition payment plans are available online or in person. Contact the Student Accounts Office for details.

Joint Agreements for In-District Residents

Residents of Community College District 522 desiring to enroll in a curriculum or program not available at SWIC may apply for tuition assistance (chargeback) to attend another community college in Illinois which offers that curriculum. For more information, refer to the *Interdistrict Cooperative Agreement* section of this catalog. Students who request this support must:

- Request support for enrollment in a degree or certificate program not offered by SWIC. Approval of enrollment in individual courses without enrollment in a degree or certificate program will not be considered.
- File a request for chargeback support with Enrollment Services at the Belleville campus, at least 30 days prior to the beginning of any semester.

Joint Agreements for Out-of-District Residents

Out-of-district students who attend SWIC under the terms of a joint agreement between SWIC and another community college district will pay SWIC in-district tuition. Those students must contact the community college district in which they live for joint agreement authorization at least 30 days prior to the beginning of any semester. For more information, refer to the *Interdistrict Cooperative Agreement* section of this catalog.

Residency

swic.edu/residency

Proof of Residency

New students and those changing address and residency status will be required to provide proof of residency to the Enrollment Services office prior to or at the time of enrollment.

Residency status may be validated by evidence of occupancy of a dwelling in the college district for purposes other than education. Validation of residency can be provided in the form of a real estate tax bill, utility receipt, driver's license or pay stub verifying residency. Any student claiming residency in District 522 may be required at any time to furnish to college officials evidence supporting his or her claim.

Residency for students under age 18 shall be considered to be that of the parent or legal guardian, unless the student is self-supporting. A self-supporting student is one who was not claimed as a dependent on the most recent federal income tax form submitted by his or her parent or guardian.

In-District

A student is considered to be in-district if the student's legal residence is within the boundaries of Community College District 522. In-district residency must be established 30 days prior to the beginning date of the student's earliest class of the semester. New students and those changing from an out-of-district address will be required to provide proof of residency in order to enroll.

Out-of-District

A student living outside District 522, who is a resident of the state of Illinois and does not attend SWIC under the terms of a joint agreement or chargeback agreement, will be designated an out-of-district student and will be charged the appropriate tuition.

Out-of-State

Any student who is a resident of another state or country will be considered an out-of-state student and will be charged the appropriate tuition.

Employer In-District

Out-of-district and out-of-state students who receive training from, and are employed at least 30 hours per week or 130 hours of service per month, by one entity located within District 522 may qualify for in-district rates. Interested students may obtain the required form at the Enrollment Services office or through the SWIC website. The in-district employer must complete a new form each semester. This form must be submitted before the midterm date of the affected class(es). Students will be required to provide proof of residency upon enrollment for this benefit.

Refunds

swic.edu/refund-policy

The refund policy is subject to change without notice.
Refunds for classes officially dropped within the refund period will be issued to the student.

Return of Funds Policy for Financial Aid Recipients

The tuition and fees return of funds policy for financial aid recipients differs from the SWIC refund policy as listed above.

1. **Return of Funds Policy**
   Students receiving Title IV financial aid (Federal Pell Grant, FSEOG, Direct Loans) and who withdraw completely on or before the 60 percent point in time of the enrollment period for which they were charged, will be subject to the return of funds policy. Students taking modular classes that do not span the entire term are also subject to the return of funds policy if the module represents less than 49 percent of the total semester. For further information, specifics regarding return of funds policy and/or examples of refunds, contact the Financial Aid and Student Employment office for more information.

2. Return of Funds Distribution Policy

The distribution of any return of funds is prescribed by law and regulation* and is as follows:

1. Unsubsidized Federal Direct Loan
2. Subsidized Federal Direct Loan
3. Federal Plus Loan
4. Federal Pell Grant
5. FSEOG
6. Other Title IV aid programs

*Federal programs that the institution does not participate in are not included in this distribution list.

Financial Aid and Scholarships

Financial Aid Student Handbook
swic.edu/financial-aid-handbook

Financial Aid
swic.edu/financial-aid

To be considered for financial aid, a student must be in an eligible program. While most associate degree programs are financial aid eligible, there are a few exceptions.

The following associate degree programs are not eligible for financial aid:
Construction Cement Mason (039A)
Construction Sheetmetal (039B)
Construction Bricklayer (039C)
Construction Ironworker (039D)
Construction Electrical Specialist (039E)
Construction Painting & Decorating (039F)
Construction Carpentry (039G)

In addition, not all certificates are financial aid eligible. Please check certificate eligibility at swic.edu/financial-aid.

Complete the FAFSA – for grants, loans and student employment – apply early to be considered for the best financial aid opportunities.

Apply online at studentaid.gov. Have your Federal Student Aid ID, Social Security card, driver's license, citizenship documentation, tax records and financial records available when you complete the FAFSA. You also will need your parents' information if you are a dependent student.

For help completing the FAFSA, visit the Financial Aid, Veterans Services and Student Employment office.

Tuition Scholarships
Tuition scholarships are available to:
- Entering freshmen graduating in the top 20 percent of their District 522 high school class
- Entering freshman who meet established criteria based on SWIC GPA from dual credit or dual enrollment coursework
- Home-schooled students who meet established criteria
- GED® (High School Diploma) graduates who meet established criteria
- Students who excel in athletics and activities such as the performing arts, journalism and student activities

For information on academic tuition scholarships, students should contact their high school counselor, GED® (High School Diploma) coordinator or the SWIC scholarship specialist.

For athletic and activity tuition scholarships, contact the appropriate area of interest, including directors of College Activities and Athletics, or the Financial Aid, Veterans Services and Student Employment office.

Community Scholarships
The Financial Aid and Student Employment office coordinates the award of community and governmental organization scholarships. For information about specific awards, contact your high school counselor or visit swic.edu/financial-aid-scholarships.

SWIC Foundation–Sponsored Scholarships
In addition, businesses, individuals and organizations in the region fund more than 300 scholarships each year for students. Specific criteria are designated by the donor. Applications are accepted from Jan 1 through Nov 1. Apply online at swic.edu/foundation/scholarships. Contact the Foundation for more details.

Student Employment and Federal Work-Study
Two student employment programs are available: the college-funded Student Employment program and the federally funded Federal Work-Study program. Demonstrated financial need is not required for the Student Employment program. However, all other Federal Work-Study program requirements do apply.

The Federal Work-Study program is primarily funded with federal funds. Students are eligible for this program on the basis of financial need and that they have met all other federal requirements. To determine eligibility, students must apply for federal student aid by completing the FAFSA. If you are interested in either program, information and applications are available at swic.edu/financial-aid-employment.

Veterans Services
swic.edu/veterans
SWIC maintains a Veterans Services office to assist eligible veterans and their dependents with their federal and state education benefits. Students working toward an approved program of study are provided a direct monetary payment of benefits through the Department of Veterans Affairs. Dependents of veterans also may be eligible for benefits if the veterans' total disability is permanent and service-related or death occurred while on active duty or as a result of a service-related condition.

The Illinois Veterans Grant/Illinois National Guard/MIA/POW scholarship pays in-district tuition for eligible students.

Students using veterans benefits must follow GPA requirements outlined in the Financial Aid Satisfactory Academic Progress Policy. Contact the SWIC Financial Aid, Veterans Services and Student Employment office for details.

Applications for all education benefits are available at the Financial Aid, Veterans Services and Student Employment offices and on the SWIC website. Federal and state benefits can be used simultaneously. All veterans and recipients of all benefits must register with the Veterans Services office each semester. For details, contact the office.

VA Pending Payment Compliance
In accordance with Title 38 US Code 3679(e), Southwestern Illinois College (SWIC) accepts the following provisions for any students using U.S. Department of Veterans Affairs (VA) Post-9/11 G.I. Bill® (Ch.33) or Vocational Rehabilitation and Employment (Ch. 31) benefits, while payment to the institution is pending from VA. SWIC will not prevent the student's enrollment, assess a late penalty fee to the student, require the student to secure alternative or additional funding, or deny the student access to any resource (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution. However, to qualify for this provision, such student may be required to produce the VA Certification of Eligibility (COE) by the first day of class, provide a written request to be certified, and provide additional information needed to properly certify the enrollment as described in other institutional policies.

Federal Programs

Federal Pell Grant
Eligibility for the Federal Pell Grant is established by the Department of Education. Students must submit the Free Application for Federal Student Aid annually; applications are available in October for the following academic year at studentaid.gov. Visit the Financial Aid, Veterans Services and Student Employment office for more information. You may also contact your local high school counselor or the Educational Opportunity Center in your area.

Federal Supplemental Educational Opportunity Grant (FSEOG)
The FSEOG is a federal grant awarded by the Financial Aid and Student Employment office to Pell-eligible students with the most need. FSEOG funds are limited and awarded on a first come, first serve basis. Eligibility is also established by the Department of Education by means of the FAFSA.

Federal Direct Loan Program
To participate in educational loan programs, students must complete the FAFSA, meet federal eligibility requirements, be enrolled in a minimum of six eligible semester credits, meet Financial Aid Satisfactory Academic Progress requirements and be enrolled in an eligible program.

Students may borrow Direct Subsidized Loans and Direct Unsubsidized Loans dependent on financial need and borrowing history through the Department of Education. Repayment, with a low interest rate, begins six months after the borrow ceases to be enrolled at least half time.

The federal government pays the interest on Federal Direct Subsidized Loans, need-based loans, while the student is in college. Non-need-based loans are Federal Direct Unsubsidized Loans and Federal Parental Loan for Undergraduate Students (PLUS). For more information on loan programs, visit swic.edu/student/services/loans.

Illinois State Programs

Illinois Student Assistance Commission
The Illinois Student Assistance Commission Monetary Award Program provides grants to eligible Illinois residents attending Illinois colleges. Awarded based on need determined by federal and state need analysis, these grants pay up to 100 percent of tuition costs for eligible students. To apply, students must annually submit the FAFSA.

Workforce Innovation and Opportunity Act
The Workforce Innovation and Opportunity Act provides funds and access to employment, education, training, and support services. If eligible for WIOA, you may receive funding for a certificate or Associate's Degree along with supplies and books. For more information, contact Career Services at 618-222-5562.

PALS (Personal Advocate Linking Services)
The PALS program supports each student's endeavors and encourages each student's success by linking students to educational and community resources.
PALS services include:
- Financial aid form, FAFSA assistance
- Referrals to campus and community services
- DHS link for information, updates and monthly reports
- PALS Page (newsletter)
- Support and encouragement necessary for success

Financial Aid Satisfactory Academic Progress Requirements

To be eligible for most financial assistance at SWIC, students must meet the Financial Aid Satisfactory Academic Progress requirements mandated by federal regulation. Students are evaluated once they have applied for financial aid and then at the end of each semester. The standards are cumulative; all prior academic work will be considered including transfer credits accepted at SWIC regardless of whether or not financial aid was previously received.

Each financial aid applicant/recipient must be enrolled in an eligible degree or certificate program, complete 67 percent of the cumulative hours attempted, and maintain at least a 2.0 cumulative grade point average (on a 4.0 scale). Students failing to meet one or both of these standards are allowed one Warning Semester. Failure to meet both of these standards at the end of the Warning Semester will result in Financial Aid Suspension.

A student on Financial Aid Suspension may re-establish financial aid eligibility after he/she has completed 67 percent of the cumulative hours attempted with a minimum cumulative GPA of 2.0.

In addition to the requirements stated above, every student applying for and receiving financial aid is required to complete his/her program of study within 150 percent of its published length. This is referred to as Maximum Timeframe. Maximum Timeframe is a projected calculation – a student's total hours remaining to complete a program is added to total hours already attempted. Students will receive a Timeframe Notice upon exceeding 130 percent of the program length and will be placed on Timeframe Suspension upon exceeding 150 percent of the program length. This calculation is unique to each student situation.

Students who have been suspended from financial aid, may, under certain circumstances, make a written appeal. See the Financial Aid office or the Satisfactory Academic Progress Policy at swic.edu/academic-progress for more information.

NOTE: *Financial Aid applicants/recipients need to be aware that the Financial Aid Satisfactory Academic Progress requirements differ from the institution's academic standing policy. Recipients' of Veteran Educational benefits must follow GPA requirements outlined in above policy.*

Admission Information

Academic Advising
swic.edu/advising

All students enrolling into SWIC courses for the first time must confer with an academic advisor.

Courses and programs should always be carefully selected with the assistance of an academic advisor to ensure applicability toward the student's program requirements and the most effective fulfillment of the student's educational goals.

General Admission
SWIC has an open-door admission policy.

Admission
swic.edu/admissions

Individuals seeking admission to the college are required to submit a New Student Information Form either online or through the Enrollment Services office, Southwestern Illinois College, 2500 Carlyle Ave., Belleville, IL, 62221. All applicants will be required to provide proof of residency as detailed under *Residency*. Individuals eligible for admission to the college include:

- Graduates from a state-recognized high school or individuals with a High School Diploma certificate.
- Individuals 18 years of age or older and no longer enrolled in high school.
- Transfer students from other colleges and universities who meet one of the above criteria.
- Individuals younger than 18 years of age who have quit attending high school and have authorization to participate in college courses and programs from appropriate high school officials. These students will be evaluated through the use of an assessment program to determine their appropriate English and math placement levels.
- High school students age 16 and older or who are juniors or seniors who have authorization to participate in college courses and programs from appropriate college and high school officials (using the dual enrollment/dual credit form). Students may enroll only in the course(s) authorized on the dual enrollment form.

Students attending high school and college in the same semester are required to submit a Dual Enrollment Form at the time of registration. The Dual Enrollment Form outlines the dual enrollment requirements for participation in college-level courses.

Admission to the college does not guarantee entrance into a particular course or program of study. The college reserves the right to establish selective admission procedures and to give preference to residents of Community College District 522. Students wishing to be admitted to the Associate in Arts, Associate in Fine Arts, Associate in Engineering Science, Associate in Science or selected Health Sciences programs must meet special admission requirements.

Students seeking an F-1 student visa should refer to the section titled International Student Admission.

Transcripts
Students should submit official copies of high school transcripts. All financial aid recipients are required to submit an official copy of their final high school or High School Diploma transcripts.

In addition, students who have attended other postsecondary institutions are encouraged to have official college transcripts submitted. Students who will be required to submit transcripts are those students who fall into one of the following categories:

- Students applying to enter the Associate in Arts, Associate in Fine Arts, Associate in Engineering Science, Associate in Science degree or Associate in General Studies degree programs.
- Students wishing to apply college credit earned at other postsecondary institutions toward SWIC degrees or certificates.
- Students needing to provide proof of course requisites.
- Students intending to use federal veterans benefits.
- Students intending to use financial aid.

Official transcripts must be sent directly from the issuing institution to the SWIC Enrollment Services office.

Home-school transcripts must be submitted in a typed transcript format. The transcript must include the student's name (first, middle and last), date of birth, address, course title, units of credit, semester completed, grades, description of grading system, graduation date, signature of parent or home-school administrator and a graduation date if the transcript is complete. Individual course requirements must be approved by the appropriate instructional department. It is the student's responsibility to contact the department for approval.

The admission, degree and certificate requirements that are published in this catalog should be used as a guide for students who begin their course of study at SWIC during the school year listed.

College Transcripts
swic.edu/transcripts

Students may view and print unofficial transcripts from eSTORM services. Students may request an official transcript through the National Student Clearinghouse transcript ordering system or through the Enrollment Services office. Information and links regarding specific transcript ordering steps can be found through the SWIC website. Students who attended swic prior to 1981 should contact the Records Department (records@swic.edu) to ensure that these credits are included in the transcripts. Official transcript orders will have a charge for each copy requested.

Math and English Course Placement
The main goal of the placement process for SWIC students is to gather information about current skills. This process will not prohibit a student from entering college, but determines the math and English competency levels for each student. Many courses require specific math and/or English competencies to enroll. Math and English are disciplines that require thinking and reasoning skills, so starting with the right courses is essential for success in future classes. Improving these skills will be necessary throughout a student's educational career and of great importance throughout life.

Placement in credit bearing English and math courses is determined by a number of measures that include a student's unweighted high school grade point average (GPA), SAT scores, ACT scores, completion of a high school transitional math or English course, prior high school math coursework, GED scores, HiSet scores or prior college course work. An academic advisor can assist the student with a course recommendation or the student can take the SWIC Placement Test that is available at each SWIC campus. Students who do not meet any of the measures have an option to enroll in a developmental English or math course to prepare for future enrollment in credit bearing coursework. For students wishing to self-remediate in mathematics skills, it is highly recommended to utilize the learning modules in ALEKS following initial placement testing as an alernative or supplement to enrollment in a developmental math course. For those students who would like the opportunity to proficiency out of an English or math course, the SWIC placement test can also be used to determine a higher level placement.

It is recommended that students meet with an academic advisor in an individual appointment to discuss the multiple measures used for placement, individual needs, academic plans and class schedules. Visit the Academic Advising website (swic.edu/advising) for locations, hours, and contact information.

Some of the SWIC Health Sciences programs may require an application and additional testing before acceptance into a program. Please refer to program pages for more details.

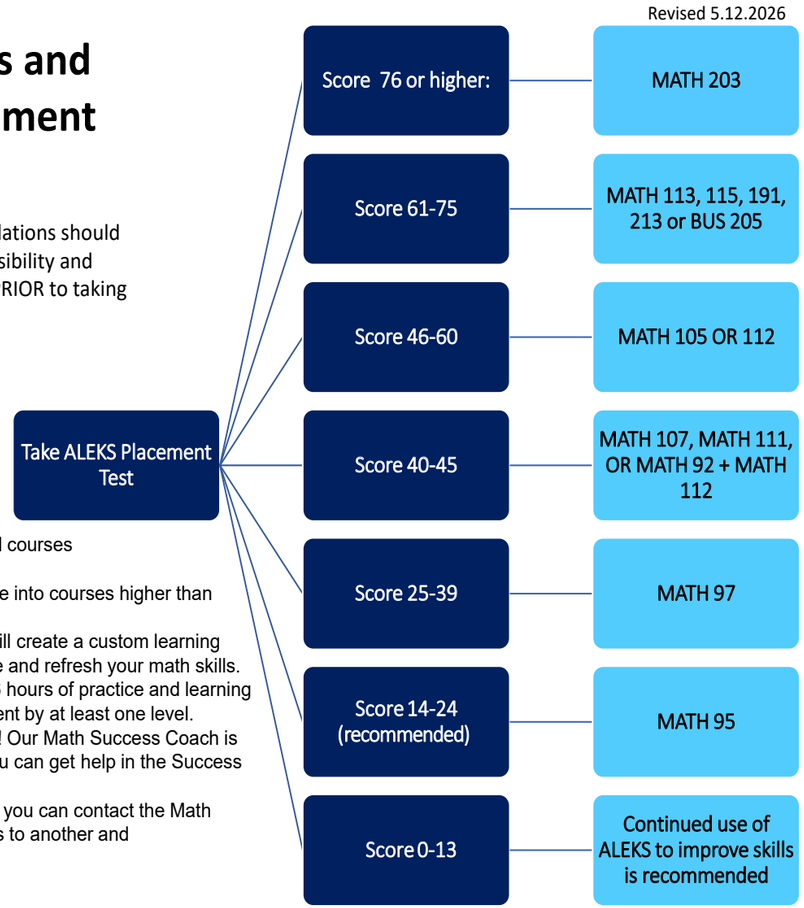
ALEKS Scores and Course Placement

Revised 5.12.2026

Students with accommodations should meet with Student Accessibility and Support Services (SASS) PRIOR to taking ALEKS.

Did you know?

- ALEKS is free to all SWIC students!
- You can use ALEKS learning modules **instead of** taking developmental courses such as MATH 95 or MATH 97.
- You can also use ALEKS to place into courses higher than MATH 112.
- After initial placement, ALEKS will create a custom learning path designed for you to practice and refresh your math skills.
- Most students who complete 5-6 hours of practice and learning in ALEKS increase their placement by at least one level.
- You don't have to practice alone! Our Math Success Coach is here to help in BCMC2181 or you can get help in the Success Center.
- If you finish a module in ALEKS, you can contact the Math Department Chair to gain access to another and keep improving!



English Placement Guide *through 12/31/2026*

A student who has any one of the measures presented in a column will meet placement requirements for that course:

	ENG 94: Integrated Reading & Writing	ENG 97: College Writing Strategies	ENG 101: Rhetoric & Composition I + ENG 100: Accelerated English Learning Lab	ENG 101: Rhetoric & Composition I
Unweighted Cumulative HS GPA			2.5 - 2.99	3.0 - 4.0
ACT English		12 or above	17 or above	18 or above
SAT English		370 or above	371 - 479	480 or above
HiSet Language Arts/Reading				15 or above
GED Reasoning				165 or above
Accuplacer Next Gen English Placement Exam	212 - 225	226 - 239	240 - 249	250 or above
High School Transitional English (TE001-ELA)	D or lower		C or higher	C or higher**
Completion of Developmental English (Writing/Composition) at Accredited Institution			C or higher***	C or higher***

**students earning a C should also have a recommendation from their high school Transitional English teacher to take ENG 101 standalone or ENG 101+ENG 100 co-enrollment – this recommendation is to be sent to and reviewed by the English Department Chair

***with English Department Chair approval

Multiple Measures English Placement Guide *effective 1/1/2027*

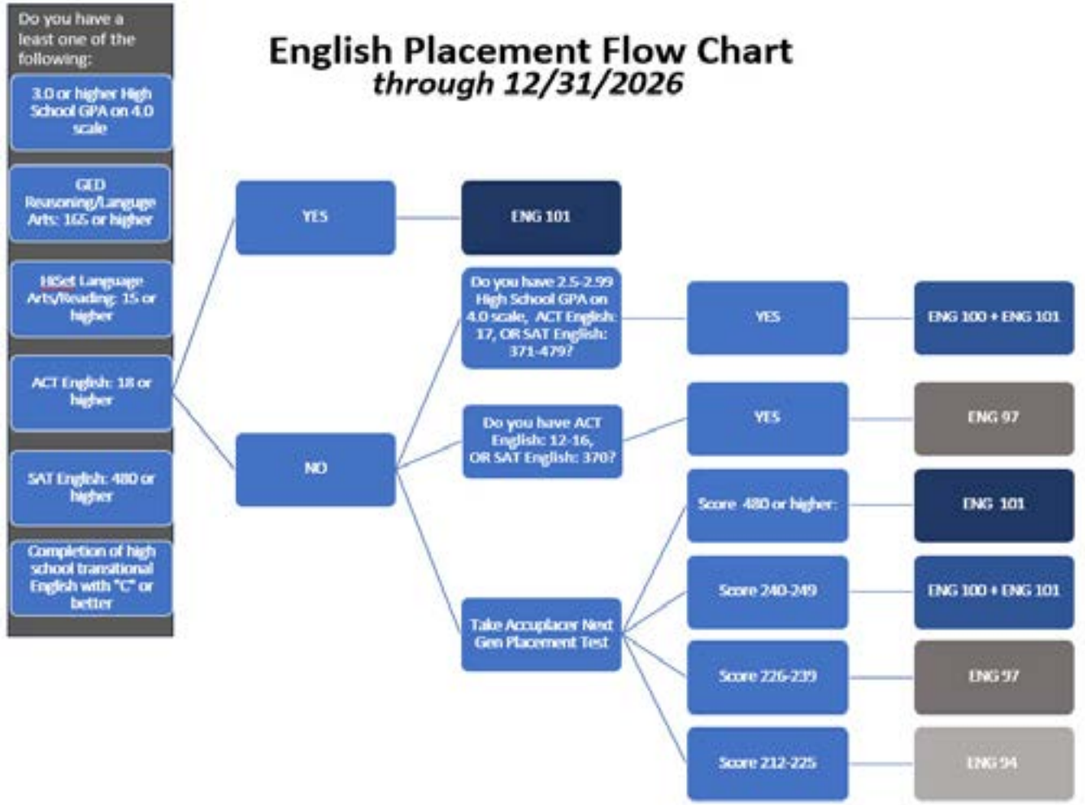
A student who has any ONE of the measures listed in a column meets placement for that course:

Questions for ENG 94 or ENG 97 placement can be directed to the English Department Chair	ENG 99: Critical Reading and Writing (recommended)	ENG 100: Accelerated English Learning Lab + ENG 101: Rhetoric and Composition I	ENG 101: Rhetoric and Composition I
SWIC Placement	CREAD/CWR -none	CREAD/CWR 75	CREAD/CWR 90
Unweighted High School GPA (7th sem. min.)		2.50-2.99	3.00 or higher
ACT English		16 or higher	18 or higher
SAT English		300 or higher	480 or higher
HiSet Language Arts/Reading			15 or higher
GED Reasoning		140 or higher	165 or higher
Accuplacer next Gen English Placement Exam		240-249	250 or higher
High School Transitional English		TE001-ELA with C or better*	TE001-ELA with C or better*
Prior College Coursework**		ENG 94, 97, or 99 with a passing grade. *Specific placement level based on portfolio assessment*	ENG 94, 97, or 99 with a passing grade. *Specific placement level based on portfolio assessment*

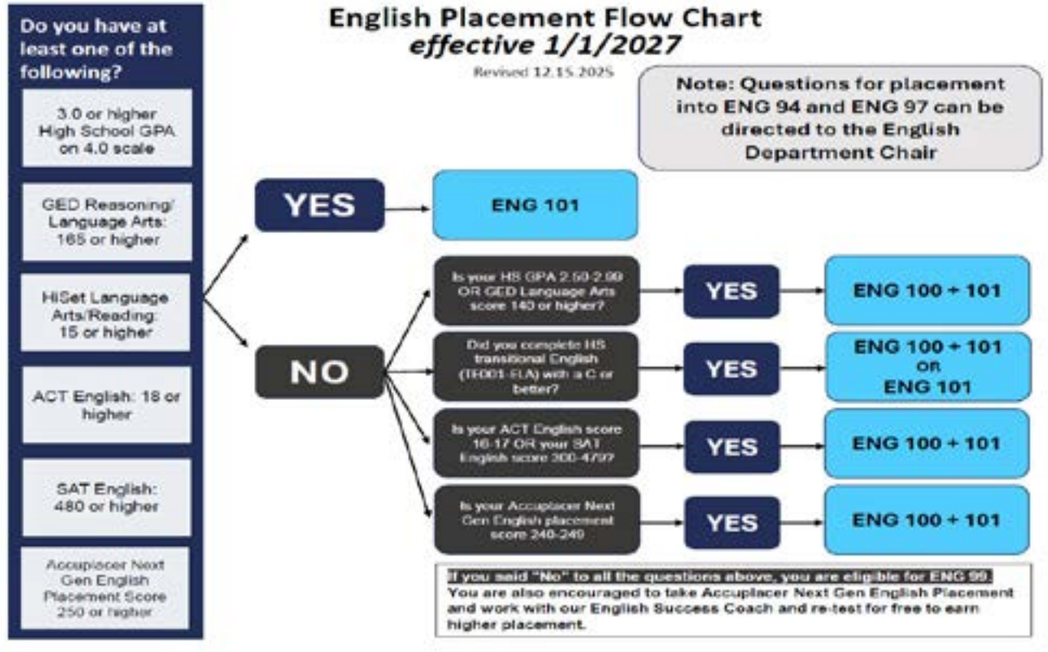
* Students earning a C should also have a recommendation from their high school Transitional English teachor to take ENG 101 standalone or ENG 101+ENG 100 co-enrollment – this recommendation is to be sent and reviewed by the English Department Chair

** Developmental coursework taken at another college will be evaluated by English Department Chair for appropriate placement level. Students who successfully complete ENG 99 will be placed in either ENG 100 + 101 or ENG 101 standalone based on the assessment of their ENG 99 writing portfolio.

English Placement Flow Chart *through 12/31/2026*

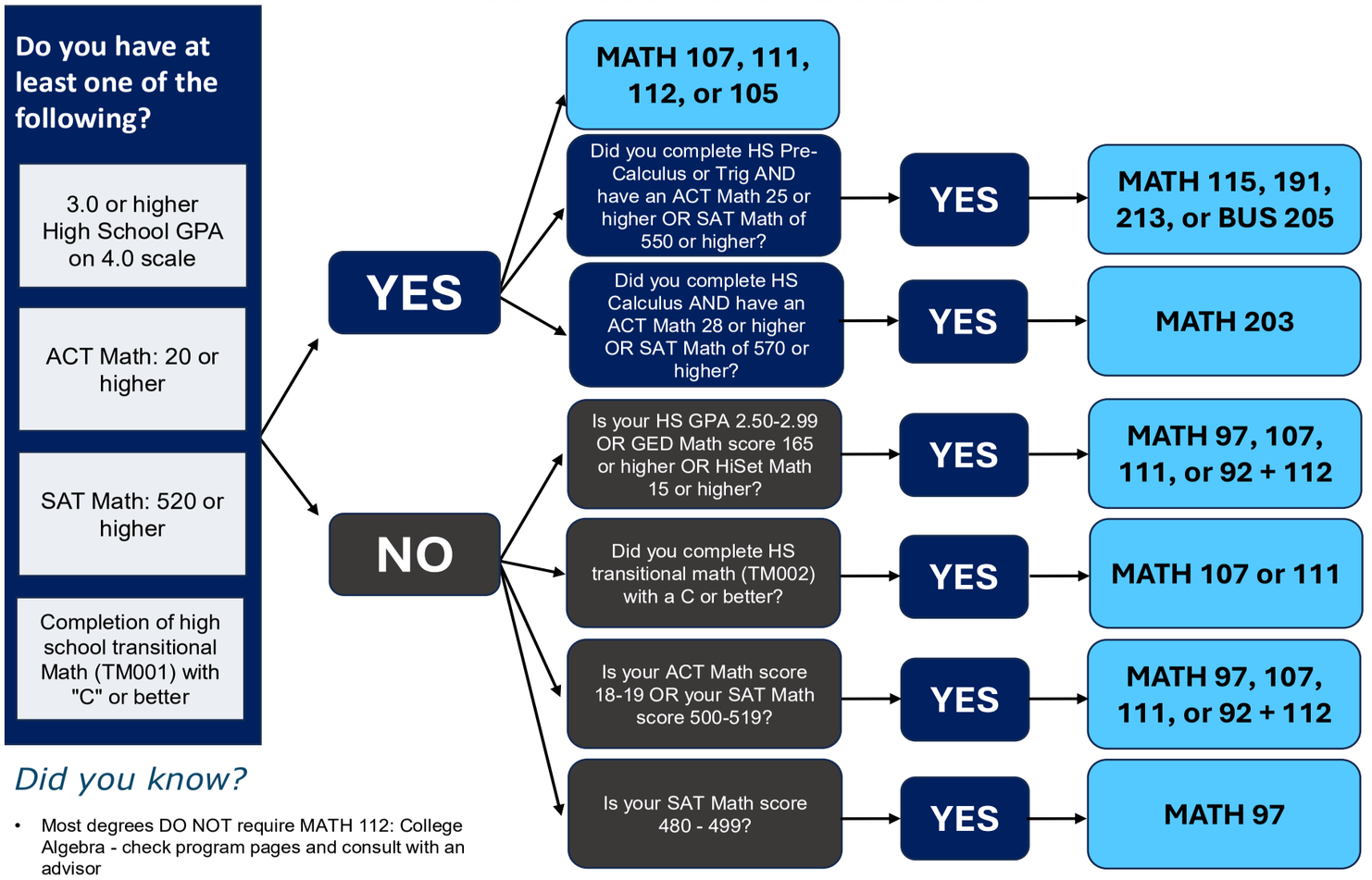


English Placement Flow Chart *effective 1/1/2027*



Math Placement Flow Chart

Revised 5.12.2026



Did you know?

- Most degrees DO NOT require MATH 112: College Algebra - check program pages and consult with an advisor
- Most AS degrees require math at a higher level than MATH 112-have your HS transcripts evaluated
- MATH 107 and 111 are excellent options for most AA and many AAS students
- MATH 105 and 106 are for elementary education majors only

If you said "No" to all the questions above, you are eligible for MATH 95. You are also encouraged to take ALEKS PPL Math Assessment and work through the learning modules with our Math Success Coach for free to earn higher placement.

Multiple Measures Math Placement Guide

Revised 5.12.2026
Effective 8.1.2026

A student who has any ONE of the measures listed in a column meets placement for that course:

	*MATH 95 (recommended)	MATH 97	MATH 107 or MATH 111	MATH 92 + MATH 112**	MATH 112** or MATH 105**	MATH 113, 115**, 191, 213, or BUS 205	MATH 203
SWIC Placement	CMTH 20	CMTH 30	CMTH 35	CMTH 37	CMTH 40	CMTH 50	CMTH 60
Unweighted High School GPA (7th sem. min.)	*2.00 - 2.49*	2.50 or higher	2.50 or higher	2.50-2.99	3.00 or higher		
ACT Math	*15 or higher*	18 or higher	18 or higher	18 or higher	20 or higher		
SAT Math	*450 or higher*	480 or higher	500 or higher	500 or higher	520 or higher		
HiSet Mathematics			15 or higher	15 or higher			
GED Mathematical Reasoning			165 or higher	165 or higher			
ALEKS PPL Math Placement Exam	*14 or higher*	25 or higher	40 or higher	40 or higher	46 or higher	61 or higher	76 or higher
High School Transitional Math			TM002 with C or higher		TM001 with C or higher		
High School Coursework						(Completion of HS precalculus or trigonometry course) AND (ACT Math 25 OR SAT Math 550)	(Completion of HS calculus) AND (ACT Math 28 OR SAT Math 570)
Prior College Coursework	*Any math course within past year with C or higher*	Math 93, 94, or 95 with C or higher	Math 94, 95, or 97 with C or higher	Math 107 or 111 with C or higher	Math 97 with C or higher	Math 112 with C or higher	Math 114 or 115 with C or higher

* While there are no placement requirements to enroll in MATH 95, students placing below the recommended scores for success should take the ALEKS PPL math assessment in the testing center. Working through the customized learning pathway in ALEKS with our Math Success Coach or the Success Center to refresh on math skills you may have forgotten can improve your placement--saving you time and money.

** The following courses also have a geometry requirement: MATH 106, 112, and 115. Check with your advisor for measures that meet this requirement.

SWIC Student Orientation

Students should attend SWIC Student Orientation before their first semester to learn about campus resources, academic expectations, and student life; explore campus and find classes; and set up academic technology.

College Success – ORIE 101 & ORIE 110

Two student support courses are offered for new students: ORIE 101 – College Orientation (1.0 credit hour) and the ORIE 110 – College Success Strategies (3.0 credit hours.) Both courses are recommended for students during their first semester of attendance. See individual course descriptions for clarification. For more information on enrolling, contact Enrollment Services at 618-235-2700, ext. 5455.

Admission to Health Sciences Programs

Special Application for Admission forms (available in District 522 high school guidance offices, at each SWIC campus and online in the eSTORM Student Center) are used to apply for the following programs:

- Diagnostic Medical Sonography
- Medical Laboratory Technology
- Nursing Education
- Paramedic
- Physical Therapist Assistant
- Practical Nursing
- Radiologic Technology
- Respiratory Care
- Surgical Technology

Specific information for each program is available from the program's Application Planning Guide available online at swic.edu/health-sciences and in the **Programs that Lead Directly to Employment** section of this catalog (blue pages).

International Student Admission

International students will be considered for admission to SWIC after the following documents are received by the designated school official:

- A completed SWIC New Student Information form.
- Official copies of all secondary school and college transcripts. International transcript evaluation reports must be in English from either ECE/Education Credential Evaluators or WES/World Education Services.
- Verification of English Language proficiency by one of the following methods:
  - An official copy of the Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) test results. F-1 Visa students must achieve a score of 61 or higher on the internet-based TOEFL, 173 on the computer-based TOEFL or 500 on the paper-based TOEFL. The minimum score accepted on the IELTS is a 6. For more detailed information on the TOEFL, visit www.ets.org; for more information on the IELTS, visit www.ielts.org.
  - Documentation of placement in English 101.
- Certification of the availability of funds to meet expenses while attending SWIC. For the current academic year certification of funds U.S. dollar requirement, please visit swic.edu. (This rate is subject to change without notice. Cost may vary slightly based on tuition changes.)
- Proof of medical and repatriation insurances are required.
- Home country address must be provided prior to issuance of I-20.
- After acceptance to SWIC and issuance of the I-20, the Form I-901 must be completed and an Immigration Fee paid to the consulate prior to seeking a Visa.

Once the above documents have been received and reviewed, you will be notified of your admission status.

International students who have completed coursework at a institutionally accredited college or university in the United States or elsewhere may request that their credit be evaluated toward a degree or certificate at SWIC. To request an evaluation, please follow these steps:

- Complete a Transfer Credit Evaluation Request form and submit it to the Enrollment Services office.
- Submit an official transcript from all institutions attended within the United States.
- Submit an official report in English from one of the following services for international secondary and higher education institutions attended:
  ECE/Education Credential Evaluators or
  WES/World Education Services

More information can be found at www.ece.org or www.wes.org. SWIC will utilize the report as a guideline for the evaluation of course credit and reserves the right to award appropriate credit.

- When all documents are received, your transcripts will be reviewed by an academic records evaluator to determine if any courses would apply toward your intended program. Additional information, such as course descriptions may be requested to determine the appropriate equivalency.
- Courses accepted for credit will be applied to your SWIC transcript. Check your Student Center "To do list" for your final evaluation results.
- Website information can be found at: swic.edu/students/services/enrollment-services/admissions/international-admission/

Readmission

Degree Completion Requirements

If a student is readmitted after having no enrollment for three consecutive semesters (excluding summer term), the student will be required to complete the degree/certificate requirements published in the catalog at the time of re-enrollment. Students who attend continuously will have six years to complete the degree/certificate requirements outlined in the catalog at the time of original entry or any catalog published throughout the course of continued enrollment. Regardless of continuing enrollment status, students may never follow any catalog that is older than six years.

In addition to the above terms, more stringent requirements apply to the following Business and Health Sciences programs: Accounting, Business, Health Information Technology, Medical Assistant, Diagnostic Medical Sonography, Medical Billing & Coding, Massage Therapy, Medical Laboratory Technology, Nursing, Office Administration and Technology, Paralegal Studies, Paramedic/Paramedicine, Pharmacy Technician, Physical Therapist Assistant, Radiologic Technology and Respiratory Care. Requirements for completion of these programs are outlined in the respective Student Handbooks and/or course syllabi distributed to students upon admission or enrollment in the program.

Forgiveness Clause

The Enrollment Services office may forgive the three lowest grades (D, F) if the student's cumulative grade point average is less than 2.0 when readmitted to SWIC after more than a three-year break. Students must be enrolled in the current semester. Courses and grades that are forgiven will not be factored in the grade point average or applied toward degree and/or certificate requirements; however, the grades will continue to be part of the permanent record. Forgiveness cannot be granted until after two weeks into each semester. To be considered for this option, a student must submit a Forgiveness Clause Application to the Enrollment Services office.

Registration

swic.edu/enrollment-services

General Information

Day, evening and weekend classes may be available at the Belleville, Red Bud and Sam Wolf Granite City campuses, and at other locations throughout the community. Video conference, hybrid, and online courses are also available. Students may register in person at any one of the three campuses or online via eSTORM.

Although SWIC uses Student ID numbers as the primary method of identification in the student records system, students are required to submit their Social Security number when completing the New Student Information Form. Students must enter their full name and Social Security number exactly as it appears on their Social Security card or face potential fines from the IRS. The SSN is retained in a secured field on the student system and can be viewed by limited staff. The SSN is required for:

- Setting up an eSTORM account, where the student can enroll, run a degree audit, order a transcript and view other important financial and academic information.
- Search/match. When entering a new record into the database, the SSN is one of the "keys" or data elements, in addition to the date of birth and name, utilized by SWIC's student information system to perform a match on a record in order to guard against duplicate entries of the same student.
- Enrollment verification. The National Student Clearinghouse requires the SSN for enrollment verification purposes.
- SWIC must comply with Illinois state auditors when reporting enrollment data. The SSN is required by the Illinois Community College Board as part of the reporting process.
- Financial Aid. The FAFSA requires that the student provide the SSN before aid can be processed.
- Veteran and government sponsored tuition assistance programs. The SSN is required for certification of benefits and tuition payments.
- 1098T. SWIC must obtain your current identifying number or SSN to file certain returns regarding tuition and related expenses with the IRS and to furnish a statement to the student. Without the SSN, students will not receive a 1098T federal income tax document, which SWIC is mandated by the IRS to issue annually to each student for income tax purposes. In addition to the institution being fined for filing incomplete information, individuals may be subject to a fine for failing to provide an institution with their SSN and their full name EXACTLY as it appears on your Social Security card.

Course Numbering System

Courses numbered 100-199 are first-year or freshman-level courses. Courses numbered 200-299 are second-year or sophomore-level courses. Courses numbered below 100 are developmental, general studies or refresher courses and do not count toward graduation requirements. Credit may not be earned beyond the number of hours indicated.

Credit Hour Assignment Policy

This policy confirms the definition of the requirements to earn credit hour(s) at Southwestern Illinois College and applies to all for-credit courses and to all developmental courses. The policy identifies the amount of work represented in intended learning outcomes and verified by evidence of student achievement in relation to all types of courses, regardless of delivery mode or type of instruction.

The definition of a credit hour is an amount of work represented in intended learning outcomes and verifed by evidence of student achievement. A credit hour approximates one hour (or 50-60 minutes) of classroom time or direct faculty instruction and two hours (100-120 minutes) of out of class student work each week in a 15-week semester or its equivalent for varied class length (late start or 8 week courese, for example). At least an equivalent amount of work (in class and out of class) is required for other academic activities including clinicals, labs, internship, studio work, and other work leading to the award of credit hours. Therefore, credit hours for courses shall be determined on the basis of an expected 45 hours of combined classroom/laboratory and study time for each semester of credit.

Credit is awarded as semester credits. The number of hours earned for completion of each course is indicated with the course description in this catalog.

To ensure that credit earned is applicable to a specific degree or certificate program, check with an academic advisor. In addition, colleges and universities have individual policies for the acceptance of credit. Check with transfer institutions and/or advisors to ensure the transferability of credits.

Course Load

A student who is registered for 12 or more semester credits during the fall and spring semesters or 6 or more semester credits during the summer is considered a full-time student.

For students receiving financial aid, awarding is based on enrollment that falls within one of the following course load groups:

- 12 or more semester credits = Full time
- 9.0-11.5 semester credits = Three-quarter time
- 6.0-8.5 = Half time
- 0.5-5.5 semester credits = Less than half time

The institution reports enrollment to the National Student Clearinghouse which lenders may access to verify enrollment information.

Registration for more than 18 semester credits during fall and spring semesters and nine semester credits during the summer term must be approved by an academic advisor. Students with a grade point average of 3.0 (B) or better generally are considered for such approval.

The Veterans Administration and some other funding agencies designate minimum course loads for qualification purposes. Your ability and how many hours you work should be taken into account when you determine your course load.

Auditing Courses

Auditing a course means that a student will attend the class but will not receive credit for attendance or work performed. The instructor may or may not allow participation in class assignments, testing, classroom discussion and/or other class activities the instructor deems appropriate. Students auditing courses should discuss their audit status with the instructor.

SWIC courses fall into three categories – those which may not be audited (see listing below), those which may be audited with the approval of the department (see listing below) and those which require no approval to audit (any credit class NOT listed below may be audited without departmental approval).

Non-Audit Classes

All apprenticeship classes (BLA, CCA, CMA, IDM, IDP, IDW, IEW, IML, IMW, IWA, PDA, SMA)
All internship classes

AGRI	All courses
AOJ	All courses
ATY	101
AVIA	280
BIOL	All courses
BUS	205
CHEM	All courses
CIS	297
CISC	All courses
CSA	All community service activity classes
EMS	All courses
ENGR	All courses
ES	All courses
GS	All general studies classes
HS	100
HES	All courses
HIST	154
HORT	287, 288, 289
HUM	200
IND	296
MA	195, 243, 255
MATH	All courses
MLT	245, 275
MT	All courses
PHYS	All courses
PTA	170, 270, 280
RT	112, 152, 160, 241, 242, 298, 299

Audit by Permission Courses

ACRT	All courses
ART	252, 253, 297
AVIA	All courses except internships
AVMT	All courses
CAD	All courses
EET	All courses
FS	All courses
HIT	All courses
HORT	All courses except internships
HRO	105, 299
HVAR	All courses
LIT	All courses
MA	All courses except 192, 195, 243, 255
MLT	150, 200, 210, 220, 240, 250, 260, 270
NE	All courses
PARL	All courses
PTA	All courses except 170, 270, 280
RC	All courses
RT	All courses except clinical courses
SLS	All courses
WLDT	All courses

Enrolling for Audit Status

Students wanting to audit a course must wait until after the class has begun to register. Audit registration must be completed in person at one of the three campuses or at Scott AFB, as an Audit Request Form must be completed by the student.

If the student wishes to register for an Audit By Permission Course(s) they should visit the appropriate department and request approval of the department chair or program coordinator and the dean using the Restricted Audit Approval Form which is available in that department.

There is no difference in tuition or fees when auditing a class. Once a student is registered, changing from audit to credit status and vice versa is not permitted. Students will not be admitted to a class at maximum capacity. Audit classes are not considered for financial aid eligibility.

Please remember that audited classes cannot be used at a later date for college credit or to fulfill admission or graduation requirements.

Repeating Courses

Some courses may be repeated in an attempt to improve a grade. When a course is repeated, only the most recent attempt is counted toward program requirements at SWIC. However, all attempts will remain part of your permanent academic record at SWIC. It is important to note that each school has its own policy on the way that repeated courses are calculated into a grade point average. Check with transfer institutions prior to admission in order to determine calculation rules.

It is important to note that some classes have been identified by SWIC and approved by the Illinois Community College Board as "repeatable" classes. In this case, the class would be factored into a student's grade point average each time it is repeated up to the allowable limit. As stated in the previous paragraph, it is important to check with transfer institutions prior to admission in order to determine calculation rules.

Course repeatability can adversely affect your financial aid eligibility, and you should contact the Financial Aid office to see how repeating a course could affect your eligibility.

Dropping Courses

swic.edu/course-information

The primary responsibility to withdraw from a course lies with the student. Withdrawing from a course could have financial aid implications, so please discuss with an advisor and/or financial aid prior to submitting a withdrawal for a course. Tuition refunds only apply during the first eight calendar days from the course start date.

If a student wishes to withdraw from a class, the student must submit a Drop/Add Section Change Form to the Enrollment Services office in person or complete the process online on eSTORM. Students should not assume they are withdrawn from a class in good standing if they do not attend the class.

Drop/Add Section Change Forms are available in the Belleville Campus Enrollment Services office, the Sam Wolf Granite City Campus offices, or online via eSTORM. Students who submit withdrawal notification by mail will be withdrawn from class as of the postmark date on their notification. Withdrawals will not be accepted by telephone.

Deadlines for withdrawal are based on the meeting patterns of the class. Withdrawal deadline for classes scheduled to meet seven days or longer reflect 67 percent of the scheduled meeting patterns. Withdrawal deadlines for classes scheduled to meet one to six days are one day prior to the first meeting date. Students should refer to their eSTORM schedule and/or syllabus for specific withdrawal dates.

Any student who withdraws or is withdrawn by an instructor with an effective date prior to the withdrawal deadline date will receive a W. With administrative approval, the instructor may assign a W or a WF grade after the withdrawal deadline for extenuating circumstances only which are defined by Board policy.

High School Partnerships

Dual Credit Classes for High School Students

swic.edu/dual-credit

High school students enrolled in pre-approved Dual Credit classes can earn college credit while taking classes at their own high schools. SWIC works with high schools throughout the district to offer these classes free of charge to students. For more information or to see if your high school is a participant in this program, students should contact their high school guidance counselor or visit the website.

Benefits for Students Who Take Dual Credit Classes

- FREE Tuition*
- Take college level classes to earn high school and college credit simultaneously
- Take classes in a familiar setting (your high school) with a strong support system
- Transition efficiently from high school to college
- Start earning credits toward stackable certifications or other pathways toward employment and career
- Access resources available to all SWIC students, such as: Advisors, Tutoring (Success Center), Student ID card, Metro/Bus Pass, Access to library resources

*No fees or tuition are charged for traditional dual credit classes. (See definition in the FAQ section.)
https://www.swic.edu/students/high-school-students/dual-credit/faq/

Dual Enrollment

Taking a class at a SWIC campus or online while still in high school.

Students can enroll for dual enrollment courses if the following requirements are met:

- Students must be 16 years of age or older by the last meeting day of the course.
- Students must be otherwise qualified in order to benefit academically and socially from the college experience.
- Students may enroll only in courses authorized on the Dual Enrollment Permission Form.
- Students must present the completed "SCHOOL PERMISSION" portion (see below) at the time of registration.
- Academic coursework while attending Southwestern Illinois College is considered to be coursework for college credit; therefore, college academic policies and procedures will be followed. Minimum placement scores as specified for particular courses must be met as stated in the college catalog.

Complete the steps to enrollment to register for a class as a dual enrolled student:
https://www.swic.edu/students/services/enrollment-services/enrollment/steps-to-enrollment/

Running Start

swic.edu/running-start

Running Start is a program through which highly qualified high school juniors earn their high school diploma and community college associate degree concurrently. To participate in Running Start, students must qualify for college-level English and math and the local high school or home-school parent must have a Running Start partnership agreement with Southwestern Illinois College.

While participating in the Running Start program, high school students are enrolled full time at the college but may participate in traditional high school activities such as homecoming, interscholastic sports, drama productions, and other after-school activities. Additional Running Start programs are available for one-year opportunities.

Running Start 1.0

Running Start 1.0 allows highly qualified high school seniors to earn one year of college credit while simultaneously earning credit to earn their high school diploma from their local high school or homeschool. At the end of the year, high school graduates may choose to return to SWIC to complete an associate degree or they may transfer to another college or university.

Contact your local high school principal or the Running Start office at 618-641-5064 or RunningStart@swic.edu.

Students who qualify for the program by meeting all standards and criteria are identified by the high school and subsequently invited to an informational meeting for students and parents.

Graduation Information

swic.edu/grad-info

Degrees

SWIC awards degrees at the end of each academic term (fall, spring and summer).

Application for Graduation

It is the responsibility of the student to notify the Enrollment Services office of their intention to graduate by submitting a Graduation Application during the last expected term of required enrollment.

Applications can be submitted through eSTORM or in person at the Enrollment Services office. A student can apply for more than one degree on an application. Students who reach graduation eligibility without having submitted an Application for Graduation may risk not being included in the graduation ceremony.

If your last term enrolled is	Apply to Graduate for the	Apply by
AUG.-DEC.	Fall Semester	Oct. 15
JAN.-MAY	Spring Semester	Feb. 15
JUNE-JULY	Summer Term	June 15

Once the form is received in the Enrollment Services office, the student will be informed of all remaining degree requirements. Diplomas are mailed directly to students at the end of each semester after successful completion of coursework is verified by the Enrollment Services office.

Prior to receipt of your degree you must:

- Complete all degree requirements as outlined in the curriculum guides for the Associate in Arts, Science, Fine Arts, Engineering Science, Applied Science or General Studies by the end of the term in which you plan to graduate.
- Complete the minimum degree semester credit requirements as outlined in the curriculum guide.
- Earn a minimum cumulative GPA of 2.0.
- Complete at least 15 of the last 24 semester credits or a minimum of 36 semester credits at SWIC. (Active duty U.S. armed forces and reserve service members must earn only 15 semester credits at SWIC.)
- Submit a Graduation Application via eSTORM Student Center. Students are encouraged to meet with an advisor to review their Student Advisement Report prior to submitting a Graduation Application.
- Clear all financial obligations to the college.
- Ensure that official documents (high school transcripts, college transcripts, program requirement exception forms, etc.) used to satisfy degree requirements are received by Enrollment Services by the last day of the term in which you plan to graduate.
- All grade change forms including grade changes for Incomplete (I) grades must be received in the Enrollment Services office by the last day of the term.

Commencement

Students who have applied for graduation and completed requirements for a degree during the spring term and graduates from the previous summer and fall terms will be invited to participate in the graduation ceremony which is held once a year in May. The specific date of the ceremony is listed on the college calendar on the inside cover of this catalog. Students must still submit a Graduation Application even if they choose not to participate in the ceremony.

Commencement Honors

At the annual graduation ceremony held each spring, students who have achieved a cumulative grade point average of 3.5 or higher will be eligible to wear a blue tassel, which represents the achievement of honors, rather than a black tassel. This achievement is determined by the cumulative grade point average through the fall term. Spring grades do not affect commencement honor status.

Certificates

Students at SWIC can earn certificates in a variety of occupational programs ranging from two semester credits to 59 semester credits in length. Certificates are automatically awarded at the end of term for students who have completed the following:

- Complete all certificate requirements as outlined in the *Programs that Lead Directly to Employment* section of this catalog (blue pages).
- A minimum of 25 percent of the required semester credits through courses offered by SWIC. Consent of the program coordinator/department head, dean and Chief Academic Officer is necessary for any variance from this requirement.
- Achieve a minimum of a 2.0 cumulative grade point average in courses required for the certificate.

Transfer Information

Acceptance of Credit

Transfer Credit

swic.edu/transfer-credit
swic.edu/students/academic-resources/catalog

Students who have previously completed college coursework with a grade of D or better can request to have their transcripts evaluated toward a degree or certificate at SWIC. Transfer credit grades are not included in the cumulative grade point average. Transfer credit may be accepted from another college or university that is institutionally accredited by any of the following associations:

ACCJC	Western Association of Schools and Colleges/ Accrediting Commission for Community Junior Colleges *(Formerly WASC-ACCJC)*
HLC	The Higher Learning Commission
MSA	Middle States Association of Colleges Schools
MSCHE	Middle States Association of Colleges and Schools Middle States Commission on Higher Education
NECHE	New England Commission of Higher Education *(Formerly NEASC-CIHE and NEASC-CTCI)*
NWCCU	Northwest Commission on Colleges and Universities *(Formerly NASC)*
SACSCOC	Southern Association of Colleges and Schools Commission on Colleges
WSCUC	Western Association of Schools and Colleges/ Senior College and University Commission *(Formerly WASC-WSUC)*

Steps to having your transcripts evaluated:

A. Submit a New Student Information form to Enrollment Services
B. Request official transcripts be sent to Enrollment Services from each institution attended
C. Submit a Transfer Credit Evaluation via eSTORM Student Center.

When the required documentation is received, an official evaluation of the student's coursework will be completed. Check your student center "To Do List" for your final evaluation results.

A course that meets general education requirements at SWIC will be accepted in transfer to meet comparable general education requirements. If transferring credit that is repeated, coursework will be evaluated based on the most recent completion and the institutional repeat process for the SWIC equivalent coursework. College-level courses that are not direct equivalents will be evaluated for credit. Credits accepted in transfer do not necessarily apply to all certificates or degree programs. International students should refer to the *International Student Admissions* section of the catalog.

Proficiency Examinations

Proficiency examinations may be taken in some courses or programs upon petition by the student. These examinations may be taken only with the approval of the instructor/coordinator, dean and Chief Academic Officer. They are available to those students who, in the judgment of the responsible college officials, possess the requisite background knowledge as a result of previous coursework, experience, or a combination of coursework and experience.

For ENG 101, interested students should seek additional information from the Department Chair in the English department (618-235-2700, ext. 5417).

Students authorized to take proficiency examinations will be required to pay a nonrefundable 50 percent tuition charge. If the student is successful, the 50 percent tuition charge will apply to his/her total tuition for the course. This fee is payable at the time they submit their applications.

Students who successfully complete proficiency examinations will have the credit recorded on their college transcripts with the designation PC (proficiency credit). A letter grade will not be recorded and the credits will not be included when computing grade point averages; however, they may be applied toward graduation requirements. **A student can earn a maximum of 16 semester credits through proficiency examinations.** Information about specific proficiency examinations is available from the dean of the division to which the academic program is assigned.

Proficiency examinations are given in accordance with the following restrictions:

- They may not be taken to raise a grade, remove a final grade of F or replace an incomplete I.
- They may not be taken before a student is officially admitted to SWIC.
- They may not be taken more than once in the same course.
- They may not be taken in a course that is below the level of previously completed coursework.
- They may not be taken in a course which a student has previously audited or in which a student has been enrolled.
- Seminars may not be used as a basis for proficiency examinations or credit.
- They may not be taken prior to receiving written consent from the appropriate instructor, dean and the Chief Academic Officer
- They may not be taken prior to receipt of the non-refundable fee.

Please understand that it is the student's responsibility to check with transfer institutions regarding transferability of proficiency credit.

Advanced Placement, International Baccalaureate Diploma Programme, CLEP and DANTES Examination

swic.edu/clep-dantes-credit

If you have earned credit for completing an AP, IBDP, CLEP or DANTES exam, you must request an official score report from AP, IBDP, CLEP or DANTES in order for SWIC to examine the credit and grant it when acceptable. Credit for exams that appear on high school or other institution's transcripts will not be accepted. A Transfer Credit Evaluation form must also be submitted to the Enrollment Services office.

Advanced Placement

SWIC will grant credit as listed below to students who score sufficiently on College Board Advanced Placement Examinations.

Subject Exam	Score	SWIC Equivalent Course	Credit Granted
Art History	3	ART 104	3
*Biology	3	BIOL 101	4
Calculus AB	3	MATH 203	5
Calculus BC	3	MATH 203	5
Calculus BC	4	MATH 203 & MATH 204	10
*Chemistry	3	General Elective	3
Chinese Language & Culture	3	CHIN 102	4
Comparative Government & Politics	3	POLS 240	3
Computer Science A	3	General Elective	3
Computer Science Principles	3	BUS 209	3
English Language & Composition	3	ENG 101	3
English Literature & Composition	3	LIT 113	3
Environmental Science	3	BIOL 106	3
French Language & Culture	3	FREN 102	4
French Language & Culture	4	FREN 102 & FREN 201	8
German Language & Culture	3	GERM 102	4
German Language & Culture	4	GERM 102 & GERM 201	8
Human Geography	3	GEOG 152	3
Italian Language & Culture	3	General Elective	4
Japanese Language & Culture	3	General Elective	4
Latin	3	General Elective	4
Macroeconomics	3	ECON 201	3
Microeconomics	3	ECON 202	3
Music Theory	3	MUS 104	3
Music Theory	4	MUS 105	4
*Physics 1: Algebra-Based	3	General Elective	1.5
*Physics 2: Algebra-Based	3	General Elective	1.5
*Physics C: Electricity & Magnetism	3	PHYS 205	4
Physics C: Mechanics	3	General Elective	4
Precalculus	3	MATH 112	4
Precalculus	4	MATH 115	5
Psychology	3	PSYC 151	3
Research	3	General Elective	3
Seminar	3	General Elective	3
Spanish Language & Culture	4	SPAN 102 & SPAN 201	8
Spanish Literature & Culture	3	General Elective	4
Statistics	3	MATH 191	4
Studio Art: 2-D Design	3	General Elective	3
**Studio Art: 2-D Design	3	ART 111	3
Studio Art: 3-D Design	3	General Elective	3
**Studio Art: 3-D Design	3	ART 112	3
Studio Art: Drawing	3	General Elective	3
**Studio Art: Drawing	3	ART 150	3
U.S. Government & Politics	3	POLS 150	3
U.S. History	3	HIST 181	3
U.S. History	4	HIST 180 & HIST 181	6
World History	3	HIST 101	3

*Must show adequate documentation of lab proficiency in AP coursework to receive this credit. See Dean of Math & Sciences.
**Must provide portfolio for review to be considered for this credit. See Dean of Arts & Humanities.

International Baccalaureate Diploma Programme

SWIC will grant credit as listed below to students who score sufficiently on International Baccalaureate (IB) Diploma Programme (DP) subject exams.

Subject Exam	Score	SWIC Equivalent Course	Credit Granted
Biology HL	4, 5	General Elective	4
Biology HL	6, 7	BIOL 101	4
Biology SL	4, 5	General Elective	4
Biology SL	6, 7	BIOL 100	4
Business Management HL	4, 5, 6, 7	General Elective	3
Business Management SL	4, 5, 6, 7	General Elective	3
Chemistry HL	4, 5, 6, 7	General Elective	4
Chemistry SL	4, 5, 6, 7	General Elective	4
Classical Greek HL	4, 5, 6, 7	General Elective	4
Classical Greek SL	4, 5, 6, 7	General Elective	4
Computer Science HL	4, 5, 6, 7	General Elective	3
Computer Science SL	4, 5, 6, 7	General Elective	3
Dance HL	4, 5, 6, 7	General Elective	3
Dance SL	4, 5, 6, 7	General Elective	3
Design Technology HL	4, 5, 6, 7	General Elective	3
Design Technology SL	4, 5, 6, 7	General Elective	3
Economics SL	4, 5, 6, 7	Social Science Gen Ed Elective	3
Economics HL	4, 5, 6, 7	Social Science Gen Ed Elective	3
English A: Language & Literature HL	4, 5, 6, 7	LIT 113 & ENG 101	6
English A: Language & Literature SL	6, 7	ENG 101	3
English A: Language & Literature SL	4, 5	General Elective	3
English A: Literature & Performance HL	4, 5, 6, 7	ENG 101	3
English A: Literature & Performance SL	4, 5, 6, 7	General Elective	3
English A: Literature HL	4, 5, 6, 7	LIT 113	3
English A: Literature SL	4, 5, 6, 7	General Elective	3
Environmental Systems & Societies SL	4, 5, 6, 7	General Elective	3
Film HL	4, 5, 6, 7	FILM 115	3
Film SL	4, 5, 6, 7	General Elective	3
French A: Language & Literature HL	6, 7	FREN 202	4
French A: Language & Literature HL	4, 5	General Elective	4
French A: Language & Literature SL	4, 5, 6, 7	General Elective	4
French A: Literature & Performance HL	4, 5, 6, 7	General Elective	4
French A: Literature & Performance SL	4, 5, 6, 7	General Elective	4
French A: Literature HL	4, 5, 6, 7	General Elective	4
French A: Literature SL	4, 5, 6, 7	General Elective	4
Further Mathematics HL	4, 5	MATH 203	5
Further Mathematics HL	6	MATH 191 & 203 & 204	14
Further Mathematics HL	7	MATH 191 & 203 & 204 & 292	17
Geography HL	4, 5, 6, 7	GEOG 152	3
Geography SL	4, 5, 6, 7	General Elective	3
German A: Language & Literature SL	4, 5, 6, 7	General Elective	4
German A: Literature & Performance HL	4, 5, 6, 7	General Elective	4
German A: Literature & Performance SL	4, 5, 6, 7	General Elective	4
German A: Literature HL	4, 5, 6, 7	General Elective	4
German A: Literature SL	4, 5, 6, 7	General Elective	4
German: Language & Literature HL	6, 7	GERM 202	4
German: Language & Literature HL	4, 5	General Elective	4
Global Politics HL	4, 5, 6, 7	POL 270	3
Global Politics SL	4, 5, 6, 7	General Elective	3
History HL	4, 5, 6, 7	General Elective	3
History SL	4, 5, 6, 7	General Elective	3
Information Technology in a Global Society HL	4, 5, 6, 7	General Elective	3
Information Technology in a Global Society SL	4, 5, 6, 7	General Elective	3
Language AB Initio SL	4. 5, 6, 7	General Elective	4
Language B HL	4, 5, 6, 7	General Elective	4

International Baccalaureate Diploma Programme - continued

Subject Exam	Score	SWIC Equivalent Course	Credit Granted
Language B SL	4, 5, 6, 7	General Elective	4
Latin HL	4, 5, 6, 7	General Elective	4
Latin SL	4, 5, 6, 7	General Elective	4
Mathematical Studies SL	4, 5, 6, 7	General Elective	3
Mathematics HL	4, 5	MATH 107 & MATH 112	8
Mathematics HL	6, 7	MATH 191 & MATH 203	9
Mathematics SL	4, 5	MATH 107 & MATH 112	8
Mathematics SL	6, 7	MATH 115 & MATH 191	7
Music HL	4, 5, 6, 7	MUS 101	3
Music SL	4, 5, 6, 7	MUS 101	3
Philosophy HL	4, 5, 6, 7	PHIL 150	3
Philosophy SL	4, 5, 6, 7	General Elective	3
Physics HL	4, 5, 6, 7	General Elective	4
Physics SL	4, 5, 6, 7	General Elective	4
Psychology HL	4, 5, 6, 7	PSYC 151	3
Psychology SL	4, 5, 6, 7	General Elective	3
Social & Cultural Anthropology HL	4, 5, 6, 7	ANTH 150	3
Social & Cultural Anthropology SL	4, 5, 6, 7	General Elective	3
Spanish A: Language & Literature HL	6, 7	SPAN 202	4
Spanish A: Language & Literature HL	4, 5	General Elective	4
Spanish A: Language & Literature SL	4, 5, 6, 7	General Elective	4
Spanish A: Literature & Performance HL	4, 5, 6, 7	General Elective	4
Spanish A: Literature & Performance SL	4, 5, 6, 7	General Elective	4
Spanish A: Literature HL	4, 5, 6, 7	General Elective	4
Spanish A: Literature SL	4, 5, 6, 7	General Elective	4
Sports, Exercise & Health Science SL	4, 5, 6, 7	General Elective	2
Theatre HL	4, 5, 6, 7	THEA 120	3
Theatre SL	4, 5, 6, 7	THEA 120	3
Visual Arts HL	4, 5, 6, 7	ART 101	3
Visual Arts SL	4, 5, 6, 7	ART 101	3
World Religions SL	6, 7	HIST 286	3
World Religions SL	4, 5	General Elective	3

College Level Examination Program (CLEP)

SWIC will grant credit for the successful completion of CLEP Tests under the following conditions:

- All college transcripts must be received by SWIC before CLEP credit will be awarded.
- CLEP Exams must be taken before completion of 15 semester credits of college-level work.
- A maximum of 30 semester credits may be awarded as a result of CLEP general and/or subject examinations.
- Credit will not be granted for laboratory science courses as a result of CLEP general or subject examinations.
- Credit will not be granted for ENG 101, ENG 102, COMM 151 and/or COMM 155 as a result of CLEP general or subject examinations.
- Credit will not be granted for math courses as a result of CLEP general or subject examinations.

SWIC will grant credit for CLEP examinations as specified in the following list. With the consent of the appropriate dean, credit may be granted for subject exams not listed. These requests will be reviewed on an individual basis.

CLEP General Examination (June 2001 and Prior)	**Score**	**SWIC Course Equivalent**	**Semester Credits Granted**
Humanities	500	General Humanities	3 hours
Natural Sciences	500	General Elective	4 hours
Social Sciences & History	500	Social Science	3 hours

CLEP General Examination (July 2001 – Present)	**Score**	**SWIC Course Equivalent**	**Semester Credits Granted**
Humanities	50	General Humanities	3 hours
Natural Sciences	50	General Elective	4 hours
Social Sciences & History	50	Social Science	3 hours

Subject Examination	**Score**	**SWIC Course Equivalent**	**Semester Credits Granted**
History of the United States I: Early Colonization to 1877	50	HIST 180	3 hours
Analyzing & Interpreting Literature	50	Humanities	3 hours
English Literature	50	Humanities	3 hours
French Level 1	50	FREN 101	4 hours
French Level 2	75	FREN 102	4 hours
German Level 1	50	GERM 101	4 hours
German Level 2	75	GERM 102	4 hours
Introductory Psychology	50	PSYC 151	3 hours
Introductory Sociology	50	SOC 153	3 hours
Principles of Macroeconomics	50	ECON 201	3 hours
Principles of Management	50	MGMT 214	3 hours
Principles of Marketing	50	MKT 126	3 hours
Principles of Microeconomics	50	ECON 202	3 hours
Principles of Supervision	50	MGMT 214	3 hours
Spanish Level 1	50	SPAN 101	4 hours
Spanish Level 2	75	SPAN 102	4 hours
Western Civilization I: Ancient Near East to 1648	50	HIST 101	3 hours
Western Civilization II: 1648 to the Present	50	HIST 102	3 hours

Note: Other educational institutions may require a higher score for certain subjects than what is required for credit at SWIC. In this situation, other institutions may not recognize college-level examination program credit issued from SWIC.

DANTES

SWIC may grant credit for the successful completion of DANTES Subject Standardized Tests. Subject Exams will be reviewed for possible credit if the score is at or above the 50th percentile.

Seal of Biliteracy

SWIC will accept the State Seal of Biliteracy as equivalent to two years of foreign language coursework taken during high school if a student's high school transcript indicates that he or she will be receiving or has received the State Seal of Biliteracy. Students who have received a State Seal of Biliteracy must request course credit for their seal within three academic years after graduating from high school.

Veteran Service Transfer Credit

The law requires that appropriate credit is granted for all previous education, training or experience. It is your responsibility to ensure all applicable transcripts are received. Failure to have transcripts evaluated can result in termination of VA educational benefits retroactive to the beginning of the semester in which you entered SWIC or the beginning of the semester in which you requested a Change of Program, regardless of whether or not you are currently enrolled. Retroactive termination results in an overpayment of benefits that you may have to pay back to the Department of Veterans Affairs.

Any current member of the U.S. armed forces, U.S. reserves, National Guard, or eligible veteran who has successfully completed basic training may be granted two hours of credit for health (HES 151 or HES 152) and two hours of credit for physical education upon submission of his or her form DD-214 or the equivalent thereof.

Eligibility for Transfer

Universities and colleges set standards of eligibility for admission of transfer students. Usually a student can transfer from SWIC to a four-year college or university after one or more semesters of work with a grade point average of C or better and if courses count toward a degree at the applied college. Students should decide as soon as possible where to transfer and check that college's admission and course requirements with an academic advisor.

International Transcript Evaluation

Students who have completed coursework from a foreign institution may request that their credit be evaluated toward a degree or certificate. To request an evaluation, students must:

- Complete a Transfer Credit Evaluation Form via eSTORM Student Center.
- Submit an official transcript report in English from one of the following services: ECE/Education Credential Evaluators or WES/World Education Services. More information can be found at www.ece.org or www.wes.org. SWIC will utilize the report as a guideline for the evaluation of course credit and reserves the right to award appropriate credit.
- When all documents are received, your transcripts will be reviewed by an academic records evaluator to determine if any courses would apply toward your intended program. Additional information, such as course descriptions may be requested to determine the appropriate equivalency.
- Courses accepted for credit will be applied to your SWIC transcript.
- Check your student center "To Do List" for your final evaluation results.

Articulation Agreements

SWIC has developed a number of Articulation Agreements with four-year universities to allow for seamless transfer into specific majors. These agreements list coursework to be completed during the two years at SWIC which will guarantee entry at the junior level upon transfer.

Since Articulation Agreements with four-year universities are approved throughout the academic year, a complete updated list and copies of current Articulation Agreements can be found on swic.edu/students/services/advising/transfer-of-credit-and-articulation. Please visit swic.edu/articulation to learn more about articulation agreements.

Recommended Steps and Timeline to Transfer to Four-Year Institutions

Do you plan to transfer from SWIC to a four-year college or university?

Whether you are enrolling in your first SWIC course or applying to graduate, the Enrollment Services office can help you prepare for a successful transfer. Please see an academic advisor for further information on these Steps to Transfer to Four-Year Institutions.

Step 1

Determine your transfer plans and major/career goals (0-16 semester credits)

- Meet with an academic advisor to create an outline of your SWIC coursework. Learn about degree requirements and transfer guides for transfer institutions you are considering. At four-year institutions, most majors prefer that you complete your requisites before you transfer.
- Visit the Career Services Department to discover the right career path and help you reach your career goals.

Step 2

Explore your transfer options (0-32 semester credits)

- Meet with an academic advisor to discuss admission requirements, course transferability, majors, size, location, diversity, cost, etc. of the transfer institutions you are considering.
- Visit the Enrollment Services office to review catalogs and brochures from transfer institutions.
- Meet with college representatives visiting SWIC. See the Academic Advising website for a schedule.
- Attend the Metro East Baccalaureate College Fair in February at SWIC.
- Visit www.itransfer.org to research Illinois colleges and the Illinois Articulation Initiative (a statewide agreement that facilitates transfer between Illinois colleges and universities).
- Use the internet to research colleges:
  Peterson's Guide – www.petersons.com
  College Zone – www.collegezone.com

Step 3

Apply to your transfer institution(s) and complete your SWIC graduation application (33-48 semester credits; 9-12 months in advance)

- Submit your SWIC Graduation Application
- Select 4-6 transfer institutions that best "fit" your needs and apply early.
- Follow directions and submit neat, complete applications. Search online applications. Ask if you must apply BOTH for general admission and for your specific major. Keep a copy of all materials. Follow up to ensure your applications is complete.
- Pay transfer application fee, if applicable.
- Request that official transcripts be sent to the transfer schools from your high school, SWIC and any other institution(s) you have attended. Request a copy for your records. After your last SWIC semester, send a final transcript. Remember the fees and waiting periods.
- If required, ask for letters of recommendation. Provide all materials to your references, including a stamped envelope.

Step 4

Apply for financial aid and scholarships (33-48 semester credits)

- Complete a FAFSA after Oct. 1 (of the year in which you will transfer) listing the FAFSA code(s) for each transfer institution you are considering.
- Research and apply early (deadlines may be months in advance) for any scholarships offered by your transfer institution(s) as well as your employer, civic/church groups and private organizations. Free scholarship searches are available at:
  www.collegezone.com
  www.collegeboard.org
  www.studentaid.ed.gov

Step 5

Choose your college or university and enroll (48-64 semester credits)

- Register for classes, purchase/rent textbooks, obtain a student ID, etc.
- Attend orientation, locate housing, find a job and explore your new college or university.

Academic Regulations

Academic Standards

A minimum of a 2.0 cumulative grade point average is required for an associate degree or certificate at SWIC.

Grades are issued at the close of each semester on a letter basis indicating the quality of academic work and student achievement. Grade points are assigned to each credit earned in 100- to 200-level classes according to the grade received as follows:

Grade		Grade points per credit
A	Superior	4
B	Good	3
C	Average	2
D	Poor	1
F	Failing	0
I*	Incomplete	0
W	Withdrawn	0
WF	Withdrawn/Failing	0
P	Passed	0
AU	Audit	0
CR	Credit Awarded	0
PC	Proficiency Credit	0
SC	Service Credit	0
PR**	Progress Re-Enroll	0
FLW	Failure Late Withdrawal	0

A student's grade point average is a measure of a student's academic achievement in college-level courses. A student's GPA at SWIC is calculated by multiplying the credits each course is worth by the grade points (A=4, B=3, C=2, D=1, F=0, or WF=0) earned for the course, then dividing the total grade points earned by the total number of hours attempted, excluding those courses in which a grade of W, I, AU, CR, PC, SC and P was received. Note that courses numbered below 100 are not considered when calculating the SWIC cumulative grade point average regardless of the grade received.

A grade of I can be requested by the student and assigned at the instructor's discretion. If a grade change is not submitted within 100 days after the class end date, the I will roll to an F grade.

Academic Honors

Academic honors are awarded to full- and part-time students at the end of the spring and fall semesters. They are not awarded during the summer session.

- Full-time students who complete at least 12 or more college-level credits in the current semester and who earn grade point averages of 3.5 or higher will be named to the **Dean's List** for that semester.
- Part-time students who complete six or more college-level semester credits in the current semester and who earn grade point averages of 3.5 or higher will be named to the **Dean's List** for that semester.

Phi Theta Kappa (PTK) International Honors Society of Two-Year Colleges is a student academic honor organization founded on four hallmarks: Leadership, Scholarship, Service, and Fellowship. SWIC has three PTK Honor Society chapters: Theta Epsilon at Belleville campus, Alpha Kappa Rho at Sam Wolf Granite City Campus, and Beta Iota Iota at Red Bud Campus. Theta Epsilon, SWIC's largest and oldest chapter, has an office at Belleville Campus with hours Monday through Thursday to support student success.

To learn more about the international organization and membership eligibility requirements, go to www.ptk.org. For information for the Belleville Campus Chapter Theta Epsilon email phithetakappa@swic.edu, or email the Chapter Advisor at amy.brockman@swic.edu. For Alpha Kappa Rho at the Sam Wolf Granite City Campus and Beta Iota Iota at the Red Bud Campus, please contact director of Student Life Services at amy.brockman@swic.edu.

Academic Standing

Academic Standing is based upon the student's cumulative SWIC grade point average at the conclusion of each semester. Students are placed on Academic Warning after failure to achieve a 2.0 cumulative grade point average. Students on Academic Warning status are encouraged to meet with an academic advisor to receive information about college resources and for individual intervention to develop strategies for academic success.

Suspension/Dismissal

At any time, the college has the right to request at any time the withdrawal of any student who does not maintain the required academic standards or whose conduct is in violation of the Student Rights and Conduct policy.

Student Attendance

Students need to be present, active, and engaged participants in thier learning and their courses. Any absence from class should be communicated with the instructor as soon as possible, prior to any missed work or class meetings.

Students are expected to be present for all scheduled class meetings and will be held responsible for any work missed as a result of absences or tardiness. For online/remote learning, a student must demonstrate ongoing participation in the Brightspace Learning Management System. Ongoing participation means students must maintain regular communication with the instructor and meet specified course assignment deadlines. A student who has not attended scheduled class meetings and does not communicate with the instructor over a period of 7 consecutive days may be withdrawn from the course due to lack of participation.

Absences because of approved college purposes or pre-approved religious observances will result in no direct absence penalties. Students will be allowed to make up work missed as a result of approved absences or do alternate assignments. Absences due to other circumstances such as military deployment, jury duty, volunteer emergency service in accordance with Illinois law, or documented disability related needs should be discussed with the instructor and appropriate dean to determine whether exceptions to the attendance policy should be made or tuition refunds considered.

Student Email

Information sent through student email is considered official college correspondence to the student from the institution. Students are responsible for checking their account on a daily basis to ensure they have the most recent college related information. The SWIC student account is the primary method of communication between the students and the college personnel.

Unscheduled College Closing

In the event of poor weather conditions, SWIC could take one of the following actions:

- Follow the "Snow Schedule" and open at 10 a.m.

- Cancel day classes and reopen for evening classes.
- Be open for day classes, but close for evening classes.
- Cancel both day classes and evening classes.

Note: students should check their Brightspace courses for any communication from instructors.

SWIC Alert Text/Email Notification

In the event that the college closes or implements the snow schedule, students subscribed to SWIC Alert will be notified with a text or email message. For more information, or to register for SWIC Alert, visit estorm.swic.edu.

SWIC Website and Social Media

Information about closure or delayed opening will be posted in the announcement box on swic.edu, on facebook.com/swic.edu and on x.com/swicedu.

TV and Radio

For students who don't subscribe to SWIC Alert or don't have internet access, or if the SWIC website is down, every effort will be made to provide the information through the following media:

Television	Radio
FOX 2 (KTVI)	KMOX-AM 1120
KMOV-TV Channel 4	WHCO-AM 1230
KSDK-TV Channel 5	WIL-FM 92.3

Snow Schedule Information

If the college chooses to use the snow schedule rather than close, campuses will open at 10 a.m. Students who would normally be in class at that time should report to those classes at 10 a.m. that day. *Exception: Instructors may choose to cancel classes scheduled to end at or before 10:30 a.m. Instructors affected by this exception should advise students of their intentions before inclement weather occurs.* Classes will be held for the remainder of their scheduled sessions. College staff should report in time for regular operations to begin at 10 a.m.

Evening Classes: Classes Starting at or after 5 p.m.

When SWIC is closed for day classes, students must NOT assume that evening classes are canceled. If road and weather conditions improve, campuses will reopen. A SWIC Alert will be sent if evening classes are canceled. Students not subscribed to SWIC Alert should check the listed media sources before leaving for evening classes.

Saturday Classes

If classes held on Saturdays are canceled due to poor weather conditions, this information will be broadcast on the radio and television stations listed above and posted on swic.edu and ksdk.com. Students should check the listed media sources after 4:30 p.m., Friday for information regarding Saturday classes. Closings on Fridays do not necessarily guarantee closings on Saturdays.

Off-Campus Sites

When the college is closed, Off-Campus Site classes will also be canceled. If the college is open, Off-Campus Site coordinators may cancel classes independently for weather-related reasons at their respective sites.
If an Off-Campus Site closes independently of SWIC, students will be notified by phone.

Smoking Policy

Effective July 1, 2015, Southwestern Illinois College became a smoke-free, tobacco-free, vapor free environment.

The Southwestern Illinois College Board of Trustees, in consideration of the provisions of the Smoke Free Illinois Act and the Illinois Smoke Free Campus Act, prohibits smoking and use of tobacco products, to include smokeless, e-cigarettes or other devices that simulate visual, sensory and behavioral aspects of smoking, in all college-owned buildings, on all college-owned property (grounds and parking lots), within all spaces leased by the college and in all college-owned, rented or leased vehicles.

Smoking includes the carrying, smoking, burning, inhaling or exhaling any kind of a lighted pipe, cigar, cigarette, hookah, weed, herbs, or other lighted smoking equipment as well as non-tobacco products that are intended to deliver nicotine for human consumption, unless it has been approved by the FDA for tobacco-use cessation or other medical purposes.

Exception: This policy does not apply to persons in non-college-owned or leased vehicles while passing through campus or in personal vehicles parked on campus.

For information on how to quit smoking, visit the Illinois Tobacco Quitline at www.quitYes.org, the American Lung Association at www.lung.org/stop-smoking/ and the American Cancer Society at www.cancer.org/healthy/stayawayfromtobacco/guidetoquittingsmoking/index.

Student Classification

A student who has earned 29 semester credits or fewer is a freshman. A student who has earned 30 semester credits of college credit is a sophomore. A student who is registered for 12 or more semester credits is a full-time student. A student registered for fewer than 12 semester credits is a part-time student. For financial aid purposes, 6 semester credits is considered full time during the summer term.

Student Conduct Code

swic.edu/conduct-code

SWIC students have the same rights as those accorded all citizens of the United States and the state of Illinois, including the right to free, open and responsible discussion and inquiry, and the right to a quality education in a program of study under competent instructors.

SWIC is obligated to its residents and the state to provide an environment which is conducive to the academic and personal development of its students. This obligation requires SWIC to conduct its affairs in an orderly, uninterrupted manner. It is an expectation for SWIC students, staff, employees and visitors to uphold the decorum of the college environment at all times.

Student conduct on campus and at all college-sponsored activities is governed by the rules of the community. Violations of federal, state and local laws at any college-sponsored activity, on or off campus, will be considered a violation of the Student Conduct Code and violators will be subject to disciplinary action.

Violations include, but are not limited to:

- violation of Board policy;
- acts that interfere with the purposes, necessities and processes of the college community to include administrators, faculty, staff, students and visitors, or that deny the rights of members of the college community to include disruptions of any learning environment or college sponsored activity;
- denying a trustee, employee, student or invitee of the college freedom of movement or use of the facility; disrupting the performance of institutional duties or pursuit of educational activities; and occupying buildings or other property after due and legal notice to depart;
- causing or threatening to cause harm to an individual either directly or indirectly by action or verbal behavior;
- academic misconduct including, but not limited to, cheating, plagiarism and forgery; failure or refusal to follow clinical practice standards; and soliciting, aiding, abetting, concealing or attempting such acts. Plagiarism is defined as the use or close imitation of the language, thoughts or work of another to include copying, quoting, paraphrasing, using another's creation, images or illustrations to represent them as your own work without proper acknowledgment of the source;
- improper, unauthorized or personal use of college computer laboratories, equipment, internet services or software; the modifying or copying of college software; and the use of illegal or unauthorized software to include Title 17, United States Code, the Digital Millennium Copyright Act of 1998, and the Copyright Term Extension Act;
- trespass is defined as entering any area that is obviously forbidden, or remaining in a forbidden area after receiving notice; presenting false documents or falsely representing identity; and interfering with lawful use or enjoyment of any area including but not limited to accessing restricted/limited access areas, bypassing controls systems through improper means or system compromise;
- sexual harassment under Title IX, defined as any unwelcome attention, behavior or materials of sexual misconduct to include sexual harassment, sexual assault (sexual violence), domestic/dating violence or any form of retaliation. Sexual harassment is a violation of state and federal law, as well as college policy;
- stalking, bullying, intimidation or other means of harassment by verbal, written, physical or electronic means; using social media to communicate an indirect threat or creating an intimidating, hostile or offensive environment or interfering with educational or work performance;
- discrimination based on the person's race, color, religion, sex (including pregnancy, gender identity and sexual orientation), national origin, age (40 or older), disability or genetic information, or veteran status;
- nuisance activities such as the use of loud, abusive, or otherwise improper language; loitering; improper assembling; creating any hazard and/or safety concern to people or things; blocking access ways; improper disposal of rubbish; and lewd or obscene conduct as defined by law;
- disrespect to authority;
- possession, consumption and/or being under the influence of alcoholic beverages, except at Foundation-sponsored events and off-campus activities where such possession and consumption meet requirements of state law and where the location of the activity does not prohibit such beverages;
- sale, use, possession, distribution and/or being under the influence of marijuana to include medical marijuana or any other illicit or synthetic substance, including any controlled substance prescribed or not prescribed by a licensed physician;
- illegal gambling;
- loss, theft or damage of college property or property of members of the college community, including failure to return college supplies, equipment, software and library material and misuse of the MetroLink Ridership Program;
- failure to meet financial obligations relative to college transactions, issuing of fraudulent checks or committing deceptive practices such as counterfeiting, fraud or false impersonation;
- the sale, transfer, possession, use or discharge of explosives, fireworks, ammunition, firearms, dangerous chemicals, hazardous substances or other weapons (to include simulated devices) except as specially permitted by law and college officials;
- failure to give information or giving false or misleading information in response to requests from college officials to include failure to identify, noncompliance and interference with reasonable verbal or written instructions;
- misuse of camera phones, to include but not limited to, electronic capture devices or unauthorized videotaping in an area where the expectation of privacy exists, to photograph copyrighted materials or to compromise academic work or tests;
- disorderly conduct defined as knowingly acting in an unreasonable manner so as to alarm or disturb another and to provoke a breach of the peace; failure to follow verbal/written directions/sanctions per discipline meetings or direction of SWIC officials.

A student against whom (the respondent) an order of protection has been issued by a court may be subject to removal from classes to assure compliance with the order.

Possible Sanctions for Violations of Student Conduct Code

Sanctions for academic dishonesty or for behavior disruptive to the educational process may be imposed by faculty members in their instructional role. Sanctions for academic dishonesty include a failing grade on an individual assignment, examination or course. Serious matters of academic dishonesty or disruptive behavior may cause the student to be withdrawn from the instructor's course or a program of study. A student found to have violated the Student Conduct Code may be denied access to certain courses or programs, including the loss of internship privileges needed to complete a program of study.

The Chief Student Services Officer or designee may impose the following sanctions upon students found to have violated the Student Conduct Code:

- *Disciplinary Reprimand:* An oral conference that is documented or a written reprimand; both noting the seriousness of the violation of the Student Conduct Code.
- *Probation:* A status for a specific period of time which places the student on notice that further misconduct may result in more serious penalty.
- *Social Probation:* Probationary status that also restricts the student from specified activities, equipment or facilities.
- *No Contact Order:* May be issued to prohibit making contact (staying away) from the victim/complainant, to include no physical or nonphysical contact whether direct or indirect (including but not limited to, telephone calls, mail, email, faxes, written notes or through other electronic means [social

media], or through third parties who may know or may not know about the restriction).

- *Suspension:* Involuntary separation from the college for a stated period of time or until stated conditions are met. Days on suspension are unexcused absences from class.
- *Expulsion:* Permanent removal from SWIC.
- *Assessment for Restitution:* Payment for restoration of property or to resolve financial obligations to the college. Failure to pay assessed amounts will prevent the student from obtaining records and registering for classes.
- *Separations or Restrictions:* A student may be separated or restricted from enrollments on a temporary basis pending the completion of proceedings relevant to the Student Conduct Code. Students will be so notified.

Sexual assault (sexual violence) is a violation of federal, state and local law, and SWIC policy. Therefore, criminal sanctions by the criminal justice system and administrative sanctions by the college may be imposed. Guidelines for proceedings are available in the office of the Title IX coordinator.

Disciplinary Proceedings

A student who is accused of violating the Student Conduct Code will be referred to the Chief Student Services Officer or designee, who will determine whether the student is guilty of the charge. If the student is found guilty using preponderance of the evidence, appropriate sanctions will be imposed by the Chief Student Services Officer. The student will be notified in writing of the decision. Written response will normally be made to the student within 10 school days unless circumstances require additional time for consideration.

If the student disagrees with the action taken, he or she may request an appeal within seven school days from the time the notification is received. The request for an appeal must be in writing. A hearing date will be set by the chair of the Hearing Board Committee no later than 15 school days after the receipt of the student's request for a hearing.

These procedures are intended to serve as general guidelines and substantial compliance with them will be considered to meet the requirements of the process.

SWIC's policy provides that:

- The accuser and the accused student each have the opportunity to attend a hearing before a properly trained hearing board that protects the safety of victims and promotes accountability;
- The accuser and the accused will have timely notice for meetings at which the accuser or accused, or both, may be present;
- The institution will allow for timely access to the accuser, the accused and appropriate officials to any information that will be used after the fact-finding investigation but during formal and informal disciplinary meetings and hearings;
- The institutional disciplinary procedures will not be conducted by officials who have a conflict of interest or bias for or against the accuser or the accused;
- The institution provides the accuser and accused the same opportunities to have others present during an institutional disciplinary proceeding. The accuser and the accused student each has the opportunity to be advised by a personal advisor of their choice, at their expense, at any stage of the process and to be accompanied by that advisor at any meeting or preceding; however, the institution may establish restrictions regarding the extent which the advisor may participate in the proceedings, as long as the restrictions apply equally to both parties;
- Decision is based on the preponderance of evidence standard, i.e. "more likely than not to have occurred" standard;
- The accuser and the accused will be notified simultaneously in writing of the results of any disciplinary proceeding, as well as any changes to those results or disciplinary actions prior to the time that such results become final; and
- The accuser and accused each have the right to appeal the outcome of the hearing as described previously and will be notified simultaneously in writing, of any change to the result prior to the time that it becomes final and of the final result after the appeal is resolved.

Student Grievance/Complaint Procedures

Academic Complaints (e.g., grading):

Step 1: Attempt to resolve the issue directly with the instructor.

Step 2: If the issue is not resolved, submit a written request to the department chair for a meeting to address the matter.

Step 3: If the department chair cannot resolve the issue, submit a written request to the Dean of the Division.

Step 4: If the problem persists, notify the Chief Academic Officer (CAO) in writing to request a meeting.

Step 5: If the Chief Academic Officer (CAO) cannot resolve the issue, you may contact the College President or their designee to resolve the issue.

Administrative Complaints (e.g., discrimination):

Step 1: Address the issue directly with the appropriate personnel.

Step 2: If unresolved, contact the Chief Student Services Officer (CSSO) for further guidance.

CSSO should be contacted in writing via email, or by completing the student concern form located on SWIC's website under: Student Services, SWIC Cares About You, SWIC Student Concern: "https://www.swic.edu/students/swic-cares-about-you/swic-student-concerns/" Form. This form report will be reviewed by the CSSO and addressed or submitted to the appropriate department for attention. Students should keep a record of all communications and decisions made at each level. This is helpful if the issue needs to be escalated and ensures the process is transparent.

Student to Student Complaints

Step 1: If possible, try to resolve the issue by directly addressing the peer student involved. Ensure that the conversation is respectful and does not result in emotional or physical harm to anyone involved.

Step 2: If the matter is not resolved through direct communication, contact the Chief Student Services Officer (CSSO) for assistance.

CSSO should be contacted in writing via email, or by completing the student concern form located on SWIC's website under: Student Services, SWIC Cares About You, SWIC Student Concern: "https://www.swic.edu/students/swic-cares-about-you/swic-student-concerns/" Form. This form report will be reviewed by the CSSO and addressed or submitted to the appropriate department for attention. Students should keep a record of all communications related to the complaint (e.g., emails, forms) in case further action is needed.

Students who have Grievances or Complaints and are not sure where to direct them should submit their concern to the CSSO

by email at: StudentAffairs@swic.edu. A report can also be made through the reporting on SWIC's website under: Student Services, SWIC Cares About You, SWIC Student Concern "https://www.swic.edu/students/swic-cares-about-you/swic-student-concerns/" Form.

**Grievances should be submitted in writing at each level of authority within 10 school days of the action being grieved or within 10 school days of the decision being appealed. A written response will typically be provided to the grievant within 10 school days unless circumstances require additional time for further review.*

** Grade appeals are considered a special category of student grievance. A student who wishes to appeal a grade must contact his or her instructor within 30 calendar days after the start of the regular semester (fall, spring or summer) following the recording of the disputed grade. If the student is not satisfied with the instructor's response, then he or she must contact the relevant department chair/coordinator in writing within the following 10 school days. If an instructor is unavailable such as being is away from campus for the summer or on a sabbatical, the student must submit his or her grade appeal to the relevant department chair/coordinator or dean within the 30-day time period with the understanding that resolution will be pursued when the instructor returns to campus. The chief academic officer may waive the 30-day deadline in cases of extraordinary circumstances.*

Southwestern Illinois College Response to a Report/Complaint

A formal resolution involves an investigation, followed by a determination of responsibility by a decision-maker. SWIC utilizes different formal resolution processes based on the alleged behaviors and the status of the parties with the goal of evaluating the allegations and assessing the credibility of the parties and witnesses. See applicable policies for additional information to include the resolution process.

Title IX Reporting

Southwestern Illinois College ("SWIC" or "the College") prohibits discrimination based on sex, which includes sex-based harassment and pregnancy-related conditions, in its education and employment programs and activities. The Title IX Coordinator can be contacted by email at TitleIX@swic.edu.

Once a report is received, the Title IX Coordinator will make an initial assessment within three business days to determine whether to investigate or dismiss a complaint of sex discrimination. Given the complexity of the report, additional time may be needed. This is at the discretion of the Chief Student Services Officer/Title IX Coordinator.

Hazing

Hazing is any act occurring on or off campus, with or without consent, that a reasonable person would consider to be a threat to the mental or physical health, comfort, or safety of student, prospective student, or any individual affiliated with a student organization. All forms of hazing is prohibited on any campus. Any violation of this policy should be reported to Public Safety Office (618) 222-5270, or submit a report online at https://www.swic.edu/students/swic-cares-about-you/

Emergency Reporting

At any time if a student, faculty, staff, or community member feels they are in immediate danger they should call or go directly to Public Safety.

Student Support Services

Enrollment Services/Academic Records/ Academic Advising

College Transcripts
swic.edu/transcripts

Students may view and print unofficial transcripts from eSTORM services.

Students may request an official transcript through the National Student Clearinghouse transcript ordering system or through the Enrollment Services Office. Information and links regarding specific transcript ordering steps can be found on the SWIC website. Official transcript orders will have a $6 charge for each copy requested.

Academic Advising

swic.edu/advising

Academic Advising services are provided at all locations through advising@swic.edu. Advisors are also available to meet students in-person at the Belleville and Sam Wolf Granite City campuses.

Academic Advising services are designed to foster academic, personal and career success. Advisors will assist students in making educational and career decisions and plans compatible with their goals for completing an associate degree or certificate.

Academic Advising offers the following services to students:

- Identify the educational options available for students and assist with analysis of each option.
- Assist new, transfer and returning students in planning and implementing educational goals by providing academic and transfer advisement services.
- Guide students in the design and implementation of a successful academic plan by assisting in course selection of degree requirements.
- Identify and facilitate transferability options for those continuing to four-year degrees.
- Assist students with interpretation of college policies and procedures to facilitate student academic success.
- Refer students and serve as a liaison to other student support services as appropriate.

Mental Health & Wellness Services

swic.edu/wellness

Wellness Advocates (Licensed Clinical Social Workers) provide counseling, crisis intervention, and referrals to campus and community resources for students dealing with a variety of challenges. Services are confidential and available by appointment or on a walk-in basis. Students may contact the Wellness Advocate at 235.2700 ext. 5290 or ami.lilleyplexico@swic.edu with questions or to set up an appointment. Students may also access online counseling through TimelyCare by registering at TimelyCare.com/SWIC.

Career Services

swic.edu/career-services

Career Services offers a wide variety of FREE services to assist with career readiness for students, alumni, staff, and community members. Services can be provided virtually at all campus locations.

Career Services offers the following services and more!

- Interest Assessments
- Job Search and Placement
- Resume Writing Assistance
- Interview Preparation
- Social Media and Networking Help
- Internships and Apprenticeships
- Career Readiness Trainings and Job Fairs
- Employer Recruitment and Job Postings onCampus
- Access to FREE College through WIOA and other grants

For more information, contact us as 618-222-5562 or careerservices@swic.edu.

Disability & Access Center

swic.edu/disability

The Disability & Access Center offers special population students a range of support services to assist in their college learning experience. The center works with college departments and community agencies throughout the college district to provide equal access and to help students overcome barriers and attain success. Services may be obtained for documented permanent and temporary disabilities.

Important Information for Students with Disabilities:

1. Documentation of a disability is needed for obtaining reasonable accommodations;
2. Students with documented disabilities requesting accommodations should schedule an appointment with the Disability & Access Center 4-6 weeks prior to the beginning of classes or placement testing;
3. Students eligible for and requesting accommodations must contact the Disability & Access Center **each** semester.

Accommodations/Support Services may include:

- Individual appointments to develop or update a Comprehensive Support Services Plan
- Community agency referrals
- Faculty consultations
- Agency and high school consultations
- Possible Accommodation Services for students with disabilities:
  - Accommodated testing rooms
  - Adaptive technology lab and services
  - Alternative format textbooks/classroom materials
  - Readers/note taking software/scribes
  - Sign language interpreters
  - Speech to text transcription software
  - Early registration in conjunction with Enrollment Services

eSTORM Services

Registration, tuition payment and other student services are available online. To register for an eSTORM services account, students will need their **Student ID number**, **Social Security number** and **date of birth**. Information available online will include:

- **Account Statement** – students can view the details of charges and credits posted to their account as it happens.
- **Enroll in a Payment Plan**
- **1098-T** – students can view and print these tax forms.
- **Make a Payment** – students can make a tuition payment.
- **Course Schedule** – students can view and print current and past course schedules.
- **Final Grade Report** – students can view final grades online.
- **Register for Classes** – students can register and drop classes online.
- **Transcripts** – students can view unofficial transcripts or request an official transcript be sent to them or to another location.
- **Enrollment Verification** – students can view and print their enrollment status for a current semester or past semesters.
- **Graduation Application** – students can apply for graduation.
- **Transcripts Evaluation Request Form** – students can submit a Transcript Evaluation Form for transfer credit evaluations.
- **My SWIC share** – students have the ability to share select student information with others. Students can delegate access by clicking the Share My Information button on the home page of their eSTORM Student Center.

Advisement/Degree Progress Report

Students are able to check their degree progress at SWIC by completing an Advisement Report through their eSTORM services account. Degree Progress/Audit applies your coursework toward degree/certificate requirements. It is NOT an official record and does not replace the transcript. It is a tool to aid students in preparing to meet with an academic advisor to confirm eligibility for graduation or course selection. To use Degree Progress, students must log in to their eSTORM Student Center and click Other Academic and select Advisement Report.

TRIO Student Support Services Program – Sam Wolf Granite City Campus

The TRIO Student Support Services program at the Sam Wolf Granite City Campus serves students who are economically disadvantaged, first generation and/or have a documented disability. SSS program participants receive assistance navigating higher education through regular mentoring, financial aid guidance, assistance with college and transfer processes, referral to resources, career exploration activities, scholarship search assistance and participation in cultural events and a number of free resources. Staff identify barriers to student success and motivate students to help them reach their academic and career goals. The mission of the Student Support Services program is to increase college retention and graduation rates of its participants and assist them in transferring to four-year colleges or universities.

Students interested in participating in the program, or needing additional information, may contact the office located at the Sam Wolf Granite City Campus in Room 440, or call 618-931-0600, ext. 7443 or email the program at TRIOSSSProgram@swic.edu.

Success Centers

swic.edu/successcenter/

The mission of the Success Centers is to supplement and enhance classroom instruction by assisting students in developing the skills and strategies they need to become confident, independent and active learners. This is accomplished through a variety of support services.

Tutoring: The Success Centers' staff and peer tutors provide in-person and online tutoring and support in a number of academic areas. Tutoring schedules are available in the Success Centers and on the SWIC website.

Boot Camps: Success Center boot camps help students review course topics and study skills for chemistry, math, and writing. The schedule for each semester is available on the SWIC Website.
Launch Your Success: During the first two weeks of the semester, come to any Success Center and develop a free learning profile, pick up a student planner, and get your questions answered about eStorm, SWIC email, and other academic technology.
Computer Programs: Computer programs are available for educational support and internet access.

Online Writing Lab (OWL): The FREE SWIC OWL allows students to submit a paper and ask questions about writing assignments for any class and receive tutor feedback within 2 school days. Access here: swic.edu/OWL.

Success Coaching: Provides personalized support to help students clarify goals, develop effective strategies, and successfully manage the demands of college. A Success Coach partners with students to strengthen time management, study skills, motivation, and balance school, work, and other life commitments. Studies show that in as few as three sessions, students can develop clear plans that help them move toward their goals. Students can schedule an appointment at www.swic.edu/sca.

Print Services, MC Room 0600

Print Services provides copy service for all general college printing such as fliers, newsletters, letterhead, forms, etc. Services available include color and black and white copies, engraved signs, photos, vinyl banners, posters, fax, scan to email, laminating and large format printing. For details, contact 618-235-2700, ext. 5243 or ext. 5379.

Bookstore Service

swic.edu/bookstore

Operated by Barnes & Noble, the bookstores at the Belleville and Sam Wolf Granite City campuses offer textbooks for purchase or rent, as well as classroom supplies and college logo gear. Hours of operation and details regarding textbooks, online purchases, refunds, buybacks, etc. are available on the website.

Food Services

The Café and Brew Storm Cafe at the Belleville Campus are operated by ARAMARK Corporation. The Café offers full-service grill items, hot entrees, pizza, soups, deli, salads and desserts, and fountain and bottled beverages. Brew Storm Cafe offers hot and cold beverages, sandwiches, parfaits and pastries.

Free Wi-Fi access is available to SWIC students in the Cafe and nearby lounges with your Student ID and eSTORM password. Brew Storm Cafe offers free Wi-Fi to the public. No student credentials are needed.

Red Bud Campus – Coffee, soda and snack vending machines are on campus. A microwave oven is available for student use.

Sam Wolf Granite City Campus – Daily specials, hot entrees and grab-n-go items served Mondays through Thursdays. A variety of vending machines options are on campus along with microwaves and toasters for student use.

Library

swic.edu/library

SWIC libraries offer a full range of resources and services to meet student academic research needs on the Belleville, Red Bud and Sam Wolf Granite City campuses. The combined districtwide library resources consist of a substantial collection of books, online videos, newspapers, e-books and research databases to support the college curriculum. Students may obtain resources from any of the three campus libraries through the intercampus library loan system. In addition, the interlibrary loan service offers access to library materials from academic, research, public and special library collections worldwide.

Licensed subscriptions to a variety of online research databases provide subject indexing and full text access to a vast range of general interest and scholarly periodicals, newspapers, and other publications. The library's online catalog and databases may be accessed through the library's webpage. Librarians and library staff provide circulation, reference and interlibrary loan services. Other library services include printing, copying and scanning, individual carrels for quiet study needs, computer workstations with internet access, Wi-Fi, word processing, spreadsheet, database management and presentation software.

A limited selection of equipment is available for checkout, including laptops, hotspots, graphing calculators, and biology models. Many textbooks and course materials are also available for in-library use through the library's Reserve collection. The libraries at the Belleville and Sam Wolf Granite City campuses offer quiet study rooms and technology-enhanced group conference spaces, equipped with touch screen Promethean boards, wireless ClickShare collaboration and video conferencing tools for student use. Three campus locations, remote access to databases, and the wide variety of services offer convenience and optimal support for students.

Belleville Campus Library
IS Room 1025, 618-235-2700, ext. 5204

Red Bud Campus Library
Room 190, 618-282-6682, ext. 8190

Sam Wolf Granite City Campus Library
Room 455, 618-931-0600, ext. 7354

Video Conference Courses

Video conference courses offer students an opportunity to attend a convenient site when enrolling in a course at SWIC. Digitally compressed voice, data and video signals are transmitted through

network lines and provide live broadcast access to specified classrooms. The classrooms are linked by camera and TV monitors which allow for the two-way communication with the faculty and students of the course.

Testing Centers

swic.edu/testing-center

The mission of the Testing Centers at Southwestern Illinois College is to enhance student learning by providing comprehensive, accessible testing services. The Testing Centers strive to fulfill the needs of students and instructors by providing a quiet, secure, and efficient testing environment. The Testing Centers serve a wide variety of disciplines in the educational arena as well as support for instructional make-up tests, online courses, and the SWIC Placement Test. In-person and remote testing services available.

- Appointments for instructional testing MUST be scheduled 24 hours in advance. Appointments are available on a first-come, first-served basis.
- The SWIC Placement Test is on a first-come, first-served walk-in basis. Hours vary by campus.
- A valid photo ID is required for all testing. A SWIC student ID number is also required for the SWIC Placement Test.
- Remote testing appointments require 2 business days advanced notice.

IMPORTANT: Appointment hours and walk-in services vary for the type of test you plan to take.

Belleville Campus
LA Building, Room 1331, 618-235-2700, ext. 5551

Red Bud Campus
Contact the Belleville Testing Center for testing options.

Sam Wolf Granite City Campus
Room 408, 618-931-0600, ext. 7364

Pearson VUE Testing Center

Provides certification tests for individuals seeking credentials for GED® (High School Diploma) and professional certifications in sectors including IT, Health Care, Business, and Education. To sign up for an exam, visit http://home.pearsonvue.com/test-taker.aspx.

Belleville Campus
LA Room 1331, 618-235-5700, ext. 5551

Adult Education and Literacy Hi-SET

Offers the certification test for individuals seeking credentials for High School Diploma.

To sign up for an exam, call 618-235-2700, ext. 5258

Perkins

swic.edu/cte-programs

Signed into law on Aug. 12, 2006, the Carl D. Perkins Career and Technical Education Improvement Act of 2006 (Perkins IV) provides continuing federal support for rigorous CTE programs that prepare students for today's competitive workforce. The act envisions that all students will achieve challenging academic and technical standards and be prepared for high-skill, high-wage or high-demand occupations in current or emerging professions. The act provides an increased focus on the academic achievement of career and technical education students, improves state and local accountability, and strengthens the connections between secondary and postsecondary education. For more information, call 618-235-2700, ext. 7173.

In addition to the college's standard services, the following special services are available to students enrolled in career and technical programs.

Notice of Non-discrimination

SWIC ensures that equal educational opportunities are offered to students regardless of race, color, religion, sex (including pregnancy, gender identity and sexual orientation), national origin, age (40 or older), disability or genetic information, or veteran status. Questions in reference to equal educational opportunities may be directed to the Chief Student Services Officer, Southwestern Illinois College, Belleville Campus, Information Sciences Building, Room 1152, 2500 Carlyle Ave., Belleville, IL 62221, 618-235-2700, ext. 5120.

Online Learning Opportunities

swic.edu/online-learning

Online Instruction

Online courses are taught with instructor-led communications taking place electronically via the internet. Online courses are delivered asynchronously; the Internet/World Wide Web serves as the primary mode for instruction. Students enrolling in online courses can often complete coursework in the comfort of their own homes following no specific date or times for class. Assignments are submitted online by specified due dates. Some on- campus attendance or proctored exams may be required for specific courses as assigned by the instructor.

Hybrid Instruction

As an alternative to fully online courses, hybrid courses are a blend of face-to-face instruction with online instruction. In a hybrid course, a significant part of the course learning is online and as a result, the amount of on-campus classroom attendance is reduced. See current class schedule for details.

Is an Online or Hybrid Course Right for You?

Answer yes or no to the following statements:

1. I have convenient and frequent access to a computer with an internet connection.
2. I am comfortable working with computers.
3. I am self-motivated and self-disciplined.
4. I manage my time well.
5. I am willing to commit six to 15 hours each week to an online or hybrid class.
6. I can communicate effectively through email, discussion boards and chat rooms.
7. I am comfortable with email, word processing and using the internet.
8. I am able to express my thoughts and opinions in writing.
9. I can read analytically and critically.
10. I do not give up easily and am willing to seek help when necessary.

If you answered "NO" to any of these statements, you may want to rethink your decision to enroll in an online course.

IMPORTANT NOTE FOR STUDENTS ENROLLING IN ONLINE OR HYBRID COURSES

Computer competence is essential to being a successful student. Students enrolled in online or hybrid courses must have access to a computer with internet connection. A high-speed internet connection (broadband, cable, DSL) is recommended for optimal quality and reliability. Students who wish to take an online or hybrid course, but do not have access to a computer, may use the computer labs at the Belleville, Red Bud and Sam Wolf Granite City campuses. Hours vary by location. Additional fees may also apply to online and hybrid courses.

Online Learning Support

swic.edu/technology-assistance

For technical assistance with your online or hybrid courses, you may contact Technology Assistance: 618-235-2700, ext. 5508 or 618-222-SWIC (7942), or send an email to TechAssistance@swic.edu.

For walk-in technical assistance visit the Technology Assistance Center (TAC) located on the Belleville Campus in the Information Sciences Building, Room 1085, Monday through Friday, 8:30 a.m. to 4 p.m.

Virtual technical assistance is available via Skype on the Sam Wolf Granite City Campus by visiting Student Services Desk, Room 416.

Virtual technical assistance is available via Skype on the Red Bud Campus by visiting the Student Development Office, Room 175.

Student Life

College Activities

swic.edu/college-activities

SWIC College Activities strives to meet the needs and interests of all students by providing various social, cultural educational and recreational activities districtwide. SWIC students will discover opportunities for interaction with other students, faculty, staff and the community. For a calendar of events and information about student organizations, visit the SWIC website.

Clubs and Organizations

swic.edu/student-clubs

Clubs and organizations are organized at the Belleville, Red Bud and Sam Wolf Granite City campuses as interest warrants. Membership in recognized clubs and organizations is open to all SWIC students.

If you are interested in forming a club or organization, contact the College Activities office at 618-235-2700, ext. 5561. Find out about joining a specific club by visiting their page on the SWIC website.

Belleville Campus

Anime Club
Promotes the appreciation of anime and anime subculture

Aspiring Educatiors
Promotes interest in careers in education.

Blue Storm Modeling Beginnings
Promotes the art and practice of modeling.

College Activities Board
Plans educational and social events for students at SWIC

Chess Club
Promotes appreciation and enjoyment of the game of chess.

Fellowship of Christian Athletes
An interdenominational Christian sports ministry for student athletes and coaches

Horticulture Club
Provides horticulture leadership opportunities, helps beautify the campuses, and sponsors seekers and field trips in the horticulture field.

LATTE (Ladies Achieving Their True Excellence)
Provides positive role models and community engagement opportunities for young women

Newman Catholic Campus Ministry
Promotes Christianity and the teaching of the Catholic faith

Physical Therapist Assistant Club
Promotes the success of future physical therapists

Pickleball Club
Promotes the sport and friendly competition of pickleball.

Progressive Radiographers Organization
Promotes the success of future radiographers

Respiratory Care Student Associaiton
Promotes the success of students pursuing a career in respiratory therapy

Scribbling, Inc.
Promotes writing as a hobby

Sign Language Club
Promotes the success of students pursuing a career in interpreting for the deaf and hard of hearing

Student Nurses Association
Promotes the success of students pursuing a career in the nursing field

Student Veterans of America
Promotes awareness of the issues facing veterans of the armed forces

SWIC Artist's League
Enriches the cultural lives of students at SWIC

SWIC Equality
Promotes awareness and acceptance for all sexualities and gender identities

SWIC IT Club
Promotes a better understanding of the role of computers in business

Video Game Club
Brings students together through the love of video games

Sam Wolf Granite City Campus

College Activities Board
Plans educational and social events for students at SWIC

Culinary Arts Club
Promotes the success of Culinary Arts students

Gaming Club
A social club dedicated to games - board games, role play and video.

Inclusion Club
Promotes inclusion for all.

SWICTunes
Promotes music performance and appreciation.

Red Bud Campus

College Activities Board
Plans educational and social events for students at SWIC

NATIONAL STUDENT ORGANIZATIONS (Invitation only)

National Society of Leadership & Service (NSLS)
Promotes leadership, professional development, and fellowship.

Phi Theta Kappa National Honor Society
Alpha Kappa Rho - SWGCC
Beta Iota Iota - Red Bud Campus
Theta Epsilon - Belleville Campus
International honor society for two-year colleges that promotes scholastic achievement and community service. Three chapters.

Insurance

Students are responsible for their own health and accident insurance coverage.

Right to Privacy – Family Educational Rights and Privacy (FERPA)

swic.edu/ferpa

In compliance with the Family Educational Rights and Privacy Act of 1974 (20 U.S.C. § 1232g; 34 CFR Part 99), SWIC students may review any of their records by completing a formal, written request to the Enrollment Services office.

Students may ask for a hearing to seek correction of information contained in the records, to clarify their meanings, or to insert into the records the student's explanation of the content of the record or a part thereof.

Please note that school officials with a legitimate educational interest may access student educational records without prior consent. School officials at SWIC have been designated as administrators, faculty, full- and part-time employees or those contracted by the college to conduct business for the college. School officials must have a legitimate educational interest (a professional need to know) before accessing student records.

SWIC considers the following to be a student's directory information: 1) name, 2) address, 3) enrollment status (full- or part-time), 4) dates of attendance at SWIC, 5) honors (including honor roll), 6) degree(s) conferred (including dates), 7) past and present sports participation, 8) physical factors of athletes (height and weight).

The college may use directory information internally as well as release it without prior consent. Anyone may prevent disclosure of directory information by submitting a Request to Prevent Disclosure of Directory Information form to the Enrollment Services office before the start of the third week of class each semester. This request will stay on file until removed by the student.

If a student does not specifically ask that directory information be withheld, the college will assume he or she approves the disclosure of that information.

SWIC retains the right to exercise discretion in determining the release of directory information.

Any student who has reason to believe that Southwestern Illinois College is not complying with the act or this policy should inform the Associate Director of Student Services in writing (Belleville Campus, Information Sciences Building, Room 1115, 618-235-700, ext. 5314. The right to file a complaint with the U.S. Department of Education may be exercised by contacting:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Ave., SW
Washington, D.C. 20202-5901
202-260-3887 – Telephone
202-260-9001 – Fax
ferpa@ed.gov – Email

Student Optional Disclosure of Mental Health Information

In accordance with Illinois Public Ace 099-0278, the Student Optional Disclosure of Private Mental Health Act, Southwestern Illinois College will ensure that, at or near the time that an incoming student enrolls, he or she is provided the opportunity to authorize in writing the disclosure of certain private mental health information to a designated person.

Liability for Personal Property

SWIC does not assume any liability for personal property or tools left in or on SWIC property. All items are the responsibility of the student.

Department of Public Safety

swic.edu/public-safety

The Department of Public Safety provides services and programs to assist in establishing and sustaining a college environment that enhances the educational process and facilitates the accomplishment of the college's mission and goals.

The department emphasizes preventing crimes and violations of policy and providing numerous services to the college community. However, all duties related to the enforcement of SWIC Student Conduct Code and Illinois Criminal and Traffic Codes are the responsibility of the Public Safety department. The college receives law enforcement support and services from the respective municipal and county law enforcement agencies in whose jurisdictions the campuses are located. The Public Safety department maintains a cooperative relationship with supporting local, state, and federal public safety agencies. The Department of Public Safety has offices on the Belleville and Sam Wolf Granite City campuses. The campus executive director administers the Public Safety program on the Red Bud Campus.

SWIC operates as a public community college. The facilities are accessible to the public for all approved legitimate purposes. Persons entering or utilizing the facilities are subject to request for

acceptable identification and required compliance with the rules, regulations and laws applicable to the college.

Campus Security Policies and Crime Statistics: Pursuant to the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, previously known as the Federal Student Right-to-Know and Campus Security Act of 1990 and Higher Education Opportunity Act of 2008, the Department of Public Safety publishes and distributes an annual Campus Security Report and Fire Safety Report by October of each year. The CSR lists the campus crime statistics, on campus and surrounding public property, and noncampus facilities, for the previous three years. The CSR/FSR also outlines the Public Safety department's authority, security policies, procedures for reporting crime, procedures for reporting sexual assaults/sex offenses/sex offenses and follow-up services; counseling and treatment services; crime prevention programs; accessibility of campus facilities; and Substance Abuse Policy; and 2008 revisions of the Higher Education Opportunity Act with specific additions to hate crime reporting; emergency response and evacuation procedures; missing student notification; and fire safety issues for institutions that maintain an on-campus student house facility; and the Violence Against Women Act Reauthorization of 2013 amendments to the Clery Act, specifically addressing domestic violence, dating violence and stalking. The annual CSR/FSR can be accessed via the Southwestern Illinois College website at swic.edu/public-safety-csr, or a copy of the CSR/FSR can be obtained by contacting the Public Safety department at 618-235-2700, ext. 5221 or writing the director of Public Safety, 2500 Carlyle Ave., Belleville, IL 62221.

Services Provided: The Department of Public Safety provides the following services: vehicle registration (parking permits), Student ID cards, access to locked vehicles, vehicle jump starts, personal escorts on campus, first-aid, lost and found, engraving items for identification, crime prevention programs, and courtesy/emergency message delivery. SWIC does not assume any liability for personal property damage when providing requested services.

Sexual Assault Awareness Education: In Accordance with Public Act 95-0764/Violence Against Women Act Reauthorization:

Please use the links below to download and read the PDF fliers, "Being Safe on Campus" and "Domestic-Dating Violence." These fliers are intended to provide you with vital information about sexual assault, domestic and dating violence awareness and stalking. The fliers are being provided in accordance with Public Act 95-0764, Education-Sexual Assault Awareness and Violence Against Women Act (VAWA) Reauthorization of 2013. For additional information, feel free to call Public Safety at 618-235-2700, ext. 5221, or 866-942-SWIC (7942), ext. 5221.

- **Being Safe on Campus**:

swic.edu/sexual-assault-awareness

- **Domestic-Dating Violence:**

swic.edu/domestic-dating-violence

New Online Training: The VAWA of 2013 introduced many changes to the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act. Public Safety along with the Title IV coordinator developed and coordinated online training to fulfill the statutory requirements of Public Act 88-629 & 95-764 (Illinois) and the VAWA of 2013. The online training is directed at students and new employees. However, the information is valuable to all employees. The online training will take approximately 40 minutes to complete. To access training, go to your eSTORM account and look for the Violence Against Women Act Training.

Parking Permits: For students, faculty, and staff, parking is by permit only on the Belleville and Sam Wolf Granite City campuses. Proof of a valid driver's license is required before a permit can be issued. Permits are free and are issued by the Public Safety departments on these campuses or through the Student Development Office at the Red Bud Campus. Students attending the East St. Louis Community College Center must obtain either a SWIC or SIUE parking permit for that site. SWIC parking permits can be obtained in Building A, Room 1003. SIUE parking permits are issued at the East St. Louis Community College office in Building B. A copy of the SWIC Traffic Code will be provided when the permit is issued.

Parking/Traffic Enforcement: Authorized parking areas are established on each campus. Restricted and prohibited parking areas are marked and/or specified in the SWIC Traffic Code. Traffic citations and complaints are issued to violators as official notifications of violations. Unpaid traffic citations may result in the withholding of college services such as transcript requests and release of final grades.

Student Identification Cards: SWIC students are entitled to an Identification Card. The Identification Card is optional but is required to receive the following services: Library Card/Internet Access, Open Computer Lab access, discounts at the Bookstore and Café (when offered), College Activities reduced purchases, free pass to Athletic events, ridership on the St. Clair County District Transit Authority MetroBus, Madison County Transit Bus System, and MetroLink, Book Buyback, etc. There is no charge for the initial Identification Card. Replacement Identification Cards will be made available for a replacement fee. The Department of Public Safety (Belleville and Sam Wolf Granite City campuses), the Student Development Office (RBC) and the SWIC Adult Education Office (suite 1030 Bldg. A) at the East St. Louis Community College Center will issue Identification Cards. To obtain the ID card, the student must be enrolled in a credit or Adult Education and Literacy course.

Concealed Carry Weapon Act: Pursuant to Illinois Law, Public Act 098-0063-Firearm Concealed Carry Act, firearms of any kind, where carried openly or concealed, shall not be allowed on any Southwestern Illinois College building, classroom, laboratory, medical clinic, hospital, artistic venue, athletic venue, entertainment venue, officially recognized college-related organization property, whether owned or leased, and any real property, including parking areas, sidewalks, and common areas under the control of the public college.

Athletics

swic.edu/athletics

Intercollegiate Sports

SWIC is affiliated nationally with the National Junior College Athletic Association. SWIC also belongs to the Great Rivers Athletic Conference. For more information on athletics, visit the SWIC website or contact the Athletics office at 618-222-5271, or visit the Belleville Campus – MC Room 0504.

Men's intercollegiate sports include soccer, basketball, baseball, tennis and golf. Women's intercollegiate sports include soccer, basketball, softball, tennis, golf and volleyball. Intercollegiate Esports competition and cheerleading are also available for men and women.

The Equity in Athletics Disclosure Act requires institutions of higher education to prepare annually a report on specific information about its intercollegiate athletics program.

Degrees and Certificates

SWIC offers degrees in Associate in Arts, Associate in Fine Arts, Associate in Science, Associate in Engineering Science, Associate in Applied Science, and Associate in General Studies. SWIC also offers certificates in some career and technical programs.

Students planning to transfer a degree from SWIC into a bachelors degree program at a four-year college or university should contact an academic advisor for information on specific degree requirements. The following transfer degrees are offered at SWIC:

Degree
Associate in Arts
Associate in Fine Arts – Art
Associate in Fine Arts – Music Education
Associate in Fine Arts – Music Performance
Associate in Science
Associate in Engineering Science

Associate in Arts

An Associate in Arts degree is an award for the satisfactory completion of a prescribed curriculum intended to transfer to baccalaureate degree major programs in areas such as arts, humanities, social or behavioral sciences or a professional field with these disciplines as a base.

Associate in Fine Arts (Art, Music Education, and Music Performance)

An Associate in Fine Arts degree is an award for the satisfactory completion of a prescribed curriculum intended to transfer to baccalaureate degree programs for students majoring in Art, Music Education or Music Performance. AFA Art students complete their general education requirements after transferring to a four-year college or university. Students who are interested in pursuing the AFA degree program should consult with a full-time faculty member in the appropriate major field or an academic advisor. A portfolio review is often required for admission into a BA or BFA in Art at a four-year institution.

Associate in Science

An Associate in Science degree is an award for the satisfactory completion of a prescribed curriculum intended to transfer to baccalaureate degree programs in areas such as mathematics, biological or physical sciences, or a professional field with these disciplines as a base.

Associate in Engineering Science

An Associate in Engineering Science degree is an award for the satisfactory completion of a prescribed curriculum intended to transfer to baccalaureate degree programs in engineering or another closely related field.

Associate in Applied Science

An Associate in Applied Science degree is an award for the satisfactory completion of a prescribed curriculum intended to prepare individuals for employment in a specific field. In some cases, individuals completing this degree are able to transfer to specific colleges to earn a bachelor's degree. See an academic advisor, program coordinator and/or visit the SWIC website (swic.edu/articulation) for specific information on transfer.

Associate in General Studies

An associate degree for students whose interests and educational objectives do not fall within either a traditional transfer or occupational program.

Accelerated Degree Option

Anyone who has completed an associate or bachelor's degree from an institutionally accredited college may earn an Associate in Applied Science degree in selected programs by completing at least 27 semester credits of program related coursework. A plan of specific courses required for the degree must be obtained from the program coordinator and approved by the Dean of the academic division and the Chief Academic Officer. Only those courses completed at SWIC, and not included as part of the requirements for a previously earned degree or certificate, can be considered for this option. Students must meet all institutional requirements for the Associate in Applied Science degree.

Programs approved for this option are:
AAS 049A (Accounting)
AAS 0010 (Computer Information Systems)
AAS 0039 (Construction Management Technology)
AAS 0007 (Cyber Security & Networking)
AAS 0140 (Graphic Communication)
AAS 0088 (Legal Studies)
AAS 049B (Management)
AAS 0031 (Marketing)

Interdistrict Cooperative Agreements

SWIC has entered into a cooperative agreement with each of the following named college districts for programs of study leading to an Associate in Applied Science degree or certificate in Career and Technical Education which are not offered at SWIC.

- Black Hawk College
- Carl Sandburg College
- College of DuPage
- Danville Community College
- Elgin Community College
- Heartland Community College
- Highland Community College
- Illinois Central College
- Illinois Eastern Community College
- Illinois Valley Community College
- John A. Logan College
- John Wood Community College
- Joliet Junior College
- Kankakee Community College
- Kaskaskia College
- Kishwaukee College
- Lake Land College
- Lewis and Clark Community College
- Lincoln Land Community College
- McHenry County College
- Moraine Valley Community College
- Morton College
- Prairie State College
- Rend Lake College
- Richland Community College
- Rock Valley College
- Sauk Valley Community College
- Shawnee Community College
- Southeastern Community College
- South Suburban College
- Spoon River College
- Waubonsee Community College

If a student is interested in enrolling in one of the programs included in the agreements, contact the secretary to the Board of Trustees at SWIC at 866-942-SWIC (7942), ext. 5247. The secretary will coordinate the request with the Chief Academic Officer for approval.

GENERAL EDUCATION

CORE CURRICULUM CREDENTIAL & IAI COURSES

Transfer to an Illinois College or University

Illinois Articulation Initiative

itransfer.org

SWIC is a participant in the Illinois Articulation Initiative, a statewide agreement that facilitates transfer of the completed Illinois Transferable General Education Core Curriculum between participating institutions. Completion of the General Education Core Curriculum at any participating college or university in Illinois assures transferring students that general education requirements for an Associate or Bachelor's Degree have been satisfied. This agreement is in effect for students entering an Associate or Baccalaureate Degree-granting institution as a first-time freshman in summer 1998 (and thereafter). The following IAI codes identify qualifying general education courses:

- IAI C (Communications)
- IAI F (Fine Arts)
- IAI H (Humanities)
- IAI S (Social/Behavioral Sciences)
- IAI M (Mathematics)
- IAI P (Physical Sciences)
- IAI L (Life Sciences)

The Illinois Articulation Initiative also includes recommended freshman and sophomore-level programs of study for specific majors in the *Illinois Baccalaureate Majors' Curricula.* The Baccalaureate Majors' Recommendations build on the transferable General Education Core Curriculum by identifying major and requisite courses that students need to complete to transfer as a junior (with a minimum of 60 transferable semester credits) into the specific major. Each major recommendation explicitly encourages community and junior college students to complete an AA or AS degree prior to transfer.

A database has been compiled for the IAI that contains all of the statewide articulated courses at each participating institution. Students who plan to transfer at some point during their college career should see an academic advisor for additional information and can access the IAI transfer information at www.itransfer.org. If a four-year university denies equivalent acceptance of a successful completion of an IAI course as documented on a student's transcript, the student should report such to the Illinois Community College Board.

General Education Core Curriculum Credential (GECC Credential)

What is the GECC Credential?

Students completing 37 - 41 credit hours of the IAI general education courses across five academic disciplines will be considered as having met the Illinois General Education Core Curriculum at SWIC. Academic Disciplines comprising the GECC are: Communications, Mathematics, Physical and Life Sciences, Humanities and Fine Arts, Social and Behavioral Sciences. The list of all SWIC approved IAI courses that students can select to complete the General Education Core Curriculum are listed on the following pages and also can be found at www.itransfer.org which would include any new courses approved throughout the year.

Completion of the IAI General Education Core Curriculum will be listed on the student's transcript for those who have completed the core curriculum. Completion of the IAI General Education Core Curriculum at any participating college or university in Illinois assures tranferring students that general education requirements for an Associate or Bachelor's Degree have been met. The IAI GECC is not a workforce certificate nor an industry-recognized credential.

GECC Course Completion

Each semester, all currently enrolled students will be automatically reviewed for eligibility for the GECC Credential. If all GECC Credential requirements have been met, then the GECC will be awarded and notated on the student's transcript. The GECC Credential requires completion of 37 - 41 credit hours across five academic disciplines which satisfy the General Education Core Curriculum of the Illinois Articulation Initiative. The GECC credential falls under the parent program of the Associate in Arts Degree.

Admissions

Students completing the GECC Credential will be required to meet the admission requirements of the SWIC transfer programs. See the Admissions section in this catalog that outlines requirements.

General Education Core Curriculum Requirements

Students completing the following general education courses will be considered as having met the Illinois General Education Core Curriculum at SWIC. Check with an academic advisor for updated information or check the IAI website for updated listings at SWIC and the 100-plus other Illinois institutions that are IAI participants.

Communication:
Requires 3 courses (9 semester credits):
2-course sequence in writing (6 semester credits)
1 course in oral communications (3 semester credits)

ENG	101	Rhetoric & Composition I, with a grade of C or better (IAI-C1 900)	3
ENG	102	Rhetoric & Composition II, with a grade of C or better (IAI-C1 901R)	3
COMM	151	Fundamentals of Public Speaking (IAI-C2 900)	3

Mathematics: 1 course (3 to 5 semester credits)

BUS	205	Economic & Business Statistics (IAI-M1 902)	4
MATH	106	Math for Elementary Teachers II (IAI-M1 903)	4
MATH	107	General Education Statistics (IAI-M1 902)	4
MATH	111	Liberal Arts Mathematics (IAI-M1 904)	4
MATH	113	Finite Math for Business & Social Science (IAI-M1 906)	4
MATH	191	Introduction to Statistics (IAI-M1 902)	4
MATH	203	Analytic Geometry & Calculus I (IAI-M1 900-1)	5
MATH	204	Analytic Geometry & Calculus II (IAI-M1 900-2)	5
MATH	205	Analytic Geometry & Calculus III (IAI-M1 900-3)	4
MATH	213	Calculus for Business & Social Science (IAI-M1 900-B)	4

Physical and Life Science: 2 courses (7 to 8 semester credits)
1 course selected from Life Sciences
1 course from Physical Sciences
At least 1 laboratory course must be included
Courses that include a lab component are marked with an asterisk (*).

Life Science

*BIOL	100	General Biology: Ecology, Evolution and Genetics (IAI-L1 900L)	4
*BIOL	101	Principles of Biology I (IAI-L1 910L)	4
*BIOL	102	Principles of Biology II (IAI-L1 910L)	4
**BIOL	107	Human Genetics (IAI-L1-906)	3
**BIOL	106	Environmental Science (IAI-L1 905)	3
*BIOL	108	General Ecology (IAI-L1 905L)	4
*BIOL	151	Plants and Society (IAI-L1 901L)	4

**Does not include a lab component

Physical Science

*ATY	101	Astronomy (IAI-P1 906L)	4
*CHEM	100	Chemistry in Everyday Life (IAI-P1 903L)	4
*CHEM	101	Introductory Chemistry (IAI-P1 902L)	5
*CHEM	105	General Chemistry I (IAI-P1 902L)	5
*ES	101	Earth Science (IAI-P1 905L)	4
*ES	102	Physical Geology (IAI-P1 907L)	4
*ES	114	Earth and the Environment (IAI-P1 908L)	4
*ES	180	Historical Geology (IAI-P1 907L)	4
*ES	250	Introduction to Meteorology (IAI-P1 905L)	4
*PHYS	151	College Physics I (IAI-P1 900L)	5
*PHYS	204	Physics-Mechanics (IAI-P2 900L)	4
*SCIE	101	General Physical Science (IAI-P9 900L)	4

Humanities and Fine Arts: 3 courses (9 semester credits)
1 course selected from Humanities
1 courses selected from Fine Arts
1 course from either Humanities or Fine Arts

Humanities

ED/LIT	293	Children's Literature (IAI-H3 918)	3
FREN	202	Intermediate French II (IAI-H1 900)	4
GERM	202	Intermediate German II (IAI-H1 900)	4
HIST	230	African-American History (IAI-H2 909D)	3
HIST	286	History of Religion (IAI-H5 904N)	3
LIT	113	Intro to Fiction (IAI-H3 901)	3
LIT	117	Lit Written by Women (IAI-H3 911D)	3
LIT	120	Introduction to Poetry (IAI–H3 903)	3
LIT	125	Drama as Literature (IAI-H3 902)	3
LIT	133	Bible as Lit: Hebrew Tradition (IAI-H5 901)	3
LIT	134	Bible as Lit: Christianity (IAI-H5 901)	3
LIT	201	World Literature to Enlightment (IAI-H3 906)	3
LIT	202	World Literature from Enlightment (IAI-H3 907)	3
LIT	205	Lit of Non-Western Countries (IAI-H3 908N)	3
LIT	213	Early American Literature (IAI-H3 914)	3
LIT	214	Modern American Literature (IAI-H3 915)	3
LIT	215	Contemporary Multicultural American Literature (IAI-H3 910D)	3
LIT	216	African American Literature (IAI-H3 910D)	3
LIT	251	Early British Literature (IAI-H3 912)	3
LIT	252	British & Commonwealth Lit (IAI-H3 913)	3
LIT	290	Shakespeare-Comedies & Histories (IAI-H3 905)	3
LIT	291	Shakespeare-Tragedies & Romances (IAI-H3 905)	3
PHIL	150	Intro to Philosophy (IAI-H4 900)	3
PHIL	151	Introductory Logic (IAI-H4 906)	3
PHIL	152	Ethics (IAI-H4 904)	3
PHIL	155	Non-Western Philosophy (IAI-H4 903N)	3
PHIL	160	Intro to Philosophy of Religion (IAI-H4 905)	3
SPAN	202	Intermediate Spanish II (IAI-H1 900)	4

Fine Arts

ART	101	Art Appreciation (IAI-F2 900)	3
ART	103	Survey of Non-Western Art (IAI-F2 903N)	3
ART	104	Art History I: Prehistoric-Gothic (IAI-F2 901)	3
ART	105	Art History II: Renaissance-Modern (IAI-F2 902)	3
ART	106	History of Photography (IAI-F2 904)	3
ART	110	Art and Gender (IAI-F2 907D)	3
FILM	115	Film Appreciation (IAI-F2 908)	3
FILM	215	Film History (IAI-F2 909)	3
MUS	101	Music Appreciation (IAI-F1 900)	3
MUS	102	American Popular Music (IAI-F1 904)	3
MUS	110	World Music (IAI-F1 903N)	3
THEA	120	Theatre Appreciation (IAI-F1 907)	3

Interdisciplinary Humanities and Fine Arts

FILM	225	Film and Literature (IAI-HF 908)	3

Social and Behavioral Science: 3 courses (9 semester credits)
Courses must be selected from at least 2 disciplines.

Social Science

ANTH	150	Cultural Anthropology (IAI-S1 901N)	3
ANTH	160	Physical Anthropology (IAI-S1 902)	3
ANTH	250	Intro to Archeology (IAI-S1 903)	3
ECON	115	Intro to Economics (IAI-S3 900)	3
ECON	201	Principles of Macroeconomics (IAI-S3 901)	3
ECON	202	Principles of Microeconomics (IAI-S3 902)	3
GEOG	152	World Regional Geography (IAI-S4 906)	3
GEOG	202	Economic Geography (IAI-S4 903N)	3
HIST	101	World Civilization I (IAI-S2 912N)	3
HIST	102	World Civilization II (IAI-S2 913N)	3
HIST	114	Latin American History (IAI-S2 920N)	3
HIST	115	Mid-East History (IAI-S2 920N)	3
HIST	117	African History (IAI-S2 920N)	3
HIST	118	Asian History (IAI-S2 920N)	3
HIST	180	US History to 1865 (IAI-S2 900)	3
HIST	181	US History, 1865 to the present (IAI-S2 901)	3
POLS	150	Intro to Amer Government (IAI-S5 900)	3
POLS	240	Comparative Politics (IAI-S5 905)	3
POLS	241	Comparative Politics-Non West (IAI –S5 906N)	3
POLS	262	Amer Govern-St & Local (IAI-S5 902)	3
POLS	270	International Relations (IAI-S5 904)	3
PSYC	151	General Psychology (IAI-S6 900)	3
PSYC	210	Life-Span Development (IAI-S6 902)	3
PSYC	250	Child Development (IAI-S6 903)	3
PSYC	251	Adolescent Development (IAI-S6 904)	3
PSYC	253	Adult Develop & Aging (IAI-S6 905)	3
PSYC	295	Social Psychology (IAI-S8 900)	3
SOC	153	Introductory Sociology (IAI-S7 900)	3
SOC	203	Social Problems (IAI -S7 901)	3
SOC	220	The Sociology of Sex and Gender (IAI-S7 904D)	3
SOC	230	Race and Ethnicity in the United States (IAI-S7 903D)	3
SOC	255	Sociology of the Family (IAI-S7 902)	3

Major Core Classes

ACCT	110	Financial Accounting (IAI-BUS 903)	4
ACCT	111	Managerial Accounting (IAI-BUS 904)	4
AGRI	111	Animal Science (IAI-AG 902)	4

AGRI	121	Soil Science (IAI-AG 904)	4
AGRI	152	Agricultural Economics (IAI-AG 901)	3
AGRI	235	Crop Science (IAI-AG 903)	4
AOJ	100	Intro to Administration of Justice (IAI-CRJ 901)	3
AOJ	103	Introduction to Corrections (IAI-CRJ 911)	3
AOJ	153	Juvenile Delinquency (IAI-CRJ 914)	3
AOJ	160	Criminology (IAI-CRJ 912)	3
ART	111	Basic Design I (IAI-ART 907)	3
ART	112	Basic Design II (IAI-ART 908)	3
ART	150	Drawing I (IAI-ART 904)	3
ART	250	Drawing II (IAI-ART 905)	3
BIOL	101	Principles of Biology I (IAI-BIO 910)	4
BIOL	102	Principles of Biology II (IAI-BIO 910)	4
BUS	205	Econonics & Business Statistics (IAI-BUS 901)	4
BUS	209	Business Computer Systems (IAI-BUS 902)	3
CHEM	105	General Chemistry I (IAI-CHM 911)	5
CHEM	106	General Chemistry II (IAI-CHM 912)	5
CHEM	201	Organic Chemistry I (IAI -CHM 913)	5
CHEM	202	Organic Chemistry II (IAI-CHM 914)	5
COMM	155	Interpersonal Communication (IAI-MC 901)	3
COMM	200	Oral Interpretation (IAI-TA 916)	3
COMM	213	Introduction to Public Relations (IAI-MC 913)	3
ECE	112	Growth & Development of Children (IAI-ECE 912)	3
ECE	116	Children with Special Needs (IAI-ECE 913)	3
ECE	250	Child, Family and Community (IAI-ECE 915)	3
ED	265	The Exceptional Learners (IAI-ESE 902)	3
ENGR	103	Engineering Graphics (IAI-EGR 941)	4
ENGR	263	Analytical Mechanics-Statics (IAI-EGR 942)	3
ENGR	264	Analytical Mechanics-Dynamics (IAI-EGR 943)	3
ENGR	271	Electrical Circuits (IAI-EGR 931)	3
ENGR	275	Mechanics of Solids (IAI-EGR 945)	3
HORT	102	Introduction to Horticulture (IAI-AG 905)	3
MCOM	101	Introduction to Journalism (IAI-MC 919)	3
MCOM	201	Introduction to Mass Communication (IAI-MC 911)	3
MATH	171	Computer Science I-JAVA (IAI-CS 911)	4
MATH	203	Analytic Geometry & Calculus I (IAI-MTH 901)	5
MATH	204	Analytic Geometry & Calculus II (IAI-MTH 902)	5
MATH	205	Analytic Geometry & Calculus III (IAI-MTH 903)	4
MATH	271	Computer Science II-JAVA (IAI-CS 912)	4
MATH	290	Differential Equations (IAI-MTH 912)	3
MATH	292	Linear Algebra (IAI-MTH 911)	3
PHYS	204	Physics – Mechanics (IAI-PHY 911)	4
PHYS	205	Physics – Heat, Elect & Magnetism (IAI-PHY 912)	4
PHYS	206	Physics – Light & Modern Physics (IAI-PHY 914)	4
POLS	280	Political Theory (IAI-PLS 913)	3
PSYC	259	Clinical Psychology (IAI-PSY 905)	3
PSYC	295	Social Psychology (IAI-PSY 908)	3
THEA	256	Theatre Acting (IAI-TA 914)	3

SWIC has adopted the following procedures in order to enhance the articulation of all transfer students:

- Transfer students who have been certified by a participating Illinois institution as having completed the Illinois Transferable General Education Core will be considered as having fulfilled the general education requirements toward the Associate in Arts, Associate in Science and Associate in Fine Arts degrees.
- An AA, AFA, AS or AES degree-seeking student who matriculates as a first-time freshman or a transfer student who has not yet completed the core will be required to meet admission requirements and complete SWIC's general education degree requirements.
- Completion of the IAI General Education Core Curriculum will be listed on the student's transcript for those who have completed the core.
- Courses with a minimum grade of D will be applied to the Illinois General Education Core Curriculum with the exception of writing courses. However, students must have an overall 2.0 GPA in the General Education Core in order to be considered as having completed the core.
- Transfer students who have satisfactorily completed courses within the Illinois Transferable General Education Core at a participating Illinois institution, but who have not completed the core, will be evaluated upon receipt of the Transfer Credit Evaluation form and an official transcript from the participating institution. In most cases, courses that have been approved within the core will be applied toward the General Education Core and toward SWIC general education requirements.
- Students who transfer to SWIC who have not completed the General Education Core must complete a minimum of 15 hours of the General Education Core at SWIC in order to be certified as having completed the core at SWIC.
- Courses completed at out-of-state or at nonparticipating in-state accredited colleges and universities will be evaluated upon receipt of the Transfer Credit Evaluation form and an official transcript from the accredited college or university.
- Courses which are accepted as equivalent to SWIC courses will be applied toward SWIC general education requirements and to the General Education Core if the courses were taken at an IAI institution and if the courses were approved as IAI courses.
- SWIC will waive a fraction of a semester credit completed in an approved course of the core at a participating college or university. However, students must complete the minimum course requirement in each section of the core and a minimum of 37 semester credits overall to fulfill the core requirements.
- Credit awarded for SWIC proficiency exams, AP exams, IBDP exams, CLEP subject exams, and DANTES Subject Standardized Tests will result in credit towards the IAI General Education Core Curriculum if the credit awarded is for SWIC courses with IAI General Education codes. Official score reports must be submitted to verify AP, IBDP, CLEP, and DANTES scores.

PROGRAMS

THAT LEAD TO A

BACHELOR'S DEGREE

ASSOCIATE IN ARTS

and

ASSOCIATE IN FINE ARTS

Associate in Arts
Program Code: 0001

Description:
These requirements are for students who are majoring in one or more of the liberal arts and who plan to transfer to a four-year institution to complete a baccalaureate degree. The curriculum guides that follow serve as a general guide to the selection of courses toward fulfilling degree requirements specific to your intended major at a four-year college or university. Since requirements vary at colleges and universities, it is important to select your courses with the assistance of an academic advisor.

Admission:
Students wishing to pursue this degree may do so prior to being formally admitted to the program. However, all students must fulfill the admissions requirements, noted under the Admissions Information section of the catalog, prior to graduation.

Terms:
Students have six years to complete the requirements for the program they have declared. If the requirements are not completed within six years, students will be required to meet degree requirements for the program in effect at that time. However, students not enrolled for three consecutive semesters (not including summer) must meet the curriculum requirements in effect at the time of re-enrollment. Students can always choose to complete the current curriculum degree requirements.

Total Hours:
A minimum of 64 semester credits is required for this degree.

Residency:
Fifteen of the last 24 credits or an accumulation of 36 credits must be completed at SWIC. Active duty U.S. armed forces and reserve service members are only required to earn 15 credits at SWIC.

GPA:
A minimum cumulative GPA of 2.00 is required for a degree.

English and Math Requirements for Degrees:
All students pursuing transfer degrees (AA, AS, AFA, AES) are encouraged to enroll in and complete their English 101 and Math requirement(s) (see checklist for options) within their first 24-30 semester credits of enrollment.

Transfer Resources:
Please view additional transfer resources at swic.edu/articulation.

SWIC Articulation Agreements:
SWIC has developed a number of Articulation Agreements with four-year universities to allow for seamless transfer into specific majors. These articulations list recommended coursework to prepare SWIC graduates for entry at the junior level. Please visit swic.edu/articulation to learn more about Articulation Agreements. Most colleges require a grade of "C" or better in a course for transferability of coursework

Human Relations:
One of the following courses must be completed. The course that is selected may also be applied toward the Humanities or Social/Behavioral Science General Education requirement as applicable. For reference, these courses are listed in white print in the general education areas.

____ Humanities & Fine Arts: ART 110 HIST 230, LIT 117, LIT 215, LIT 216
____ Social Science & Behavioral Science: : POLS 150, PSYC 295, SOC 153, SOC 203, SOC 230

Non-Western Culture:
One of the following courses must be completed. The course that is selected may also be applied toward the Humanities or Social/Behavioral Science General Education requirement as applicable. For reference, these courses are highlighted in the general education areas.

____ Humanities & Fine Arts: ART 103, HIST 286, LIT 205, MUS 110, PHIL 155
____ Social Science & Behavioral Science: ANTH 150, GEOG 152, GEOG 202, HIST 101, HIST 102, HIST 114, HIST 115, HIST 117, HIST 118, POLS 241

College Orientation:
Beginning students are encouraged to enroll in ORIE 101 College Orientation Seminar or ORIE 110 College Success Strategies. For information regarding this course, see the Course Description Guide at the back of the catalog.

Apply for Graduation:
Students must submit an application to Enrollment Services. Applications can be submitted through eSTORM or through Enrollment Services. To be considered for a specific term, applications must be received by the following dates:

Term	Application Date
Fall/December	Oct. 15
Spring/May	Feb. 15
Summer/July	June 15

Associate in Arts
Degree Requirements Checklist

Students MUST take one Human Relations Course AND one Non-Western Culture Course

Human Relations Course:
designed specifically to examine aspects of human diversity within the US

Non-Western Course:
designed specifically to examine aspects of human diversity from a non-Western perspective

*Included in IAI majors codes. Check: https://itransfer.org/courses/descriptors.php

General Education Core Curriculum

IAI General Education Core Curriculum (IAI GECC): Successful completion of the IAI GECC (12-13 courses / 37-41 credits) at SWIC will guarantee participating colleges and universities agree to accept the IAI GECC in lieu of their own comparable lower-division general education requirements.

COMMUNICATIONS (total of 3 courses / 9 semester credits) – A minimum grade of "C" is required for ENG 101 & 102

____ ENG 101 ____ ENG 102 ____ COMM 151

HUMANITIES AND FINE ARTS
(total of 3 courses / 9 semester credits: at least 1 course from humanities and at least 1 course from fine arts)
Humanities (at least 1 course / 3 semester credits)

____ FREN 202	____ LIT 117	____ LIT 202	____ LIT 251*	____ PHIL 151
____ FILM 225	____ LIT 120	____ LIT 205	____ LIT 252*	____ PHIL 152
____ GERM 202	____ LIT 125	____ LIT 213*	____ LIT 290	____ PHIL 155
____ HIST 230	____ LIT 133	____ LIT 214*	____ LIT 291	____ PHIL 160
____ HIST 286	____ LIT 134	____ LIT 215	____ LIT 293/ED 293	____ SPAN 202
____ LIT 113	____ LIT 201	____ LIT 216	____ PHIL 150	

Fine Arts (at least 1 course / 3 semester credits)

____ ART 101	____ ART 105	____ FILM 115	____ MUS 101	____ THEA 120
____ ART 103	____ ART 106	____ FILM 215	____ MUS 102	
____ ART 104	____ ART 110	____ FILM 225	____ MUS 110	

Additional Humanities & Fine Arts (total of 3 semester credits)
____ Additional course from either Humanities or Fine Arts

SOCIAL SCIENCES AND BEHAVIORAL SCIENCES (total of 3 courses / 9 semester credits: 1 course each from at least 2 disciplines below)
Social Sciences (at least 1 course / 3 semester credits)

____ ECON 115	____ GEOG 202	____ HIST 115	____ HIST 181*	____ POLS 262*
____ ECON 201	____ HIST 101*	____ HIST 117	____ POLS 150*	____ POLS 270*
____ ECON 202	____ HIST 102*	____ HIST 118	____ POLS 240*	
____ GEOG 152	____ HIST 114	____ HIST 180*	____ POLS 241*	

Behavioral Sciences (at least 1 course / 3 semester credits)

____ ANTH 150	____ PSYC 151*	____ PSYC 251*	____ SOC 153*	____ SOC 230*
____ ANTH 160	____ PSYC 210*	____ PSYC 253*	____ SOC 203*	____ SOC 255*
____ ANTH 250	____ PSYC 250*	____ PSYC 295*	____ SOC 220*	

Additional Social Science/Behavioral Science (1 course / total of 3 semester credits)
____ Additional course from either Social Science or Behavioral Science

MATHEMATICS (total of 1 course / 3-4 semester credits)

____ MATH 106 (MATH 105 is required first)	____ MATH 113	____ MATH 205*
____ MATH 107 OR MATH 191 OR BUS 205*	____ MATH 203*	____ MATH 213
____ MATH 111	____ MATH 204*	

PHYSICAL AND LIFE SCIENCES (total of 2 courses: 1 Life Science; 1 Physical Science; with at least 1 of those being a laboratory course)

Life Science (1 course / total of 3-4 semester credits)	**Physical Science** (1 course / total of 3-4 semester credits)		
____ BIOL 100	____ ATY 101	____ ES 101	____ PHYS 151
____ BIOL 101*	____ CHEM 100	____ ES 102	____ PHYS 204*
____ BIOL 106	____ CHEM 101	____ ES 114	____ SCIE 101
____ BIOL 151	____ CHEM 105*	____ ES 180	____ SCIE 110
		____ ES 250	

HUMAN WELL-BEING (total of 2 semester credits) The courses below are not included in the IAI General Education Core Curriculum.

____ HES 130	____ HES 152	____ HES 156	____ HES 172	____ HRO 101
____ HES 131	____ HES 154	____ HES 158	____ HES 180	____ HRO 150
____ HES 151	____ HES 155	____ HES 160		____ SLS 103

Additional Transfer Major/Minor Courses and Electives (total of 21-23 semester credits)
Applicable major/minor/elective courses are identified in the Course Description Guide as "T" type classes. "C" type courses included in 2+2 Articulation Agreements of the A.A.S. Programs can be included as electives for the A.A. Since requirements vary from one institution to another, all new degree seeking students must meet regularly with an academic advisor as well as verify information with the transfer institution. Electives should be selected from the following disciplines:

ACCT	BUS	ED	GERM	LIT	ORIE	SOC
AGRI	CHIN	ENG	HES	MKT	PHIL	SPAN
ANTH	COMM	FILM	HIST	MCOM	POLS	THEA
AOJ	ECE	FREN	HORT	MSC	PSYC	
ART	ECON	GEOG	HUM	MUS	RUSS	

Other (as identified in 2+2 agreements)

Associate in Fine Arts/Art

Program Code: 0052

Description:
These requirements are for students who are majoring in Art and who plan to transfer to a four-year institution to complete a baccalaureate degree. AFA students complete their general education requirements after they transfer to a four-year college or university. Students who are interested in pursuing the AFA-Art degree program should consult with a full-time art faculty member or an academic advisor. A portfolio review is often required for admission into a BA or BFA in Art at a four-year institution. For more information, see the Art curriculum in this section.

Admission:
Students wishing to pursue this degree may do so prior to being formally admitted to the program. However, all students must fulfill the admissions requirements, noted under the Admissions Information section of the catalog, prior to graduation.

Terms:
Students have six years to complete the requirements for the program they have declared. If the requirements are not completed within six years, students will be required to meet degree requirements for the program in effect at that time. However, students not enrolled for three consecutive semesters (not including summer) must meet the curriculum requirements in effect at the time of re-enrollment. Students can always choose to complete the current curriculum degree requirements.

Total Hours:
A minimum of 65 semester credits is required for this degree.

Residency:
Fifteen of the last 24 credits or an accumulation of 36 credits must be completed at SWIC. Active duty U.S. armed forces and reserve service members are only required to earn 15 credits at SWIC.

GPA:
A minimum cumulative GPA of 2.00 is required for a degree.

English and Math Requirements for Degrees:
All students pursuing transfer degrees (AA, AS, AFA, AES) are encouraged to enroll in and complete their English 101 and Math requirement(s) (see checklist for options) within their first 24-30 semester credits of enrollment.

Transfer Resources:
Please view additional transfer resources at swic.edu/articulation.

SWIC Articulation Agreements:
SWIC has developed a number of Articulation Agreements with four-year universities to allow for seamless transfer into specific majors. These articulations list recommended coursework to prepare SWIC graduates for entry at the junior level. Please visit swic.edu/articulation to learn more about Articulation Agreements. Most colleges require a grade of "C" or better in a course for transferability of coursework.

Human Relations:
One of the following courses must be completed. The course that is selected may also be applied toward the Humanities or Social/Behavioral Science General Education requirement as applicable. For reference, these courses are listed in white print in the general education areas.

___ Humanities & Fine Arts: ART 110 HIST 230, LIT 117, LIT 215, LIT 216
___ Social Science & Behavioral Science: : SOC 230

Non-Western Culture:
One of the following courses must be completed. The course that is selected may also be applied toward the Humanities or Social/Behavioral Science General Education requirement as applicable. For reference, these courses are highlighted in the general education areas.

___ Humanities & Fine Arts: ART 103, HIST 286, LIT 205, MUS 110, PHIL 155
___ Social Science & Behavioral Science: ANTH 150, GEOG 152, GEOG 202, HIST 101, HIST 102, HIST 114, HIST 115, HIST 117, HIST 118, POLS 241

College Orientation:
Beginning students are encouraged to enroll in ORIE 101 College Orientation Seminar or ORIE 110 College Success Strategies. For information regarding this course, see the Course Description Guide at the back of the catalog.

Apply for Graduation:
Students must submit an application to Enrollment Services. Applications can be submitted through eSTORM or through Enrollment Services. To be considered for a specific term, applications must be received by the following dates:

Term	Application Date
Fall/December	Oct. 15
Spring/May	Feb. 15
Summer/July	June 15

Associate in Fine Arts/Art

Degree Requirements Checklist

Communications (total of 9 semester credits) A minimum grade of "C" is required for ENG 101 & ENG 102

____ ENG 101	____ ENG 102	____ COMM 151

Humanities (total of 6 semester credits) Courses must be selected from two subject areas

____ ART 103	____ HIST 286	____ LIT 202	____ LIT 291	____ PHIL 153
____ ART 110	____ LIT 113	____ LIT 205	____ LIT 293/ED 293	____ PHIL 154
____ FILM 115	____ LIT 117	____ LIT 213	____ MUS 101	____ PHIL 155
____ FILM 215	____ LIT 120	____ LIT 214	____ MUS 102	____ PHIL 160
____ FILM 225	____ LIT 125	____ LIT 215	____ MUS 110	____ SPAN 202
____ FREN 202	____ LIT 133	____ LIT 216	____ PHIL 150	____ THEA 120
____ GERM 202	____ LIT 134	____ LIT 252	____ PHIL 151	
____ HIST 230	____ LIT 201	____ LIT 290	____ PHIL 152	

Social Science (total of 3 semester credits)

____ ECON 115	____ GEOG 202	____ HIST 115	____ HIST 181	____ POLS 262
____ ECON 201	____ HIST 101	____ HIST 117	____ POLS 150	____ POLS 270
____ ECON 202	____ HIST 102	____ HIST 118	____ POLS 240	
____ GEOG 152	____ HIST 114	____ HIST 180	____ POLS 241	

Behavioral Science (total of 3 semester credits)

____ ANTH 150	____ PSYC 151	____ PSYC 251	____ SOC 153	____ SOC 230
____ ANTH 160	____ PSYC 210	____ PSYC 253	____ SOC 203	____ SOC 255
____ ANTH 250	____ PSYC 250	____ PSYC 295	____ SOC 220	

Mathematics (total of 4 semester credits)

____ MATH 106	____ MATH 111	____ MATH 191	____ MATH 204	____ MATH 213
____ MATH 107	____ MATH 113	____ MATH 203	____ MATH 205	____ BUS 205

Life Science (total of 4 semester credits)

____ BIOL 100
____ BIOL 101
____ BIOL 108
____ BIOL 151

Physical Science (total of 4 semester credits)

____ ATY 101	____ ES 101	____ PHYS 151
____ CHEM 100	____ ES 102	____ PHYS 204
____ CHEM 101	____ ES 114	____ SCIE 101
____ CHEM 105	____ ES 180	____ SCIE 110
	____ ES 250	

Art Core Requirements (total of 21 semester credits)

____ ART 104	____ ART 111	____ ART 150	____ ART 252
____ ART 105	____ ART 112	____ ART 250	

Media-specific Studio Course Options (total of 9 semester credits in at least two areas)

Ceramics	Photography	Painting	Sculpture	Print Making	Graphic Design
____ ART 113	____ ART 116	____ ART 211	____ ART 218	____ ART 108	____ ART 107
____ ART 114	____ ART 217	____ ART 212	____ ART 219	____ ART 208	____ ART 207

Graphic Illustration	Computer Art
____ ART 109	____ ART 120
____ ART 209	

Human Well-Being (total of 2 semester credits)

____ HES 130	____ HES 151	____ HES 154	____ HES 156	____ HES 160	____ HES 180
____ HES 131	____ HES 152	____ HES 155	____ HES 158	____ HES 172	____ HRO 150

Human Relations Courses Non-Western Culture

Associate in Fine Arts/Music Education

Program Code: 0051

Description:
These requirements are for students who are majoring in Music Education and who plan to transfer to a four-year institution to complete a baccalaureate degree. AFA Music students complete their general education requirements at SWIC. Students pursuing the music major should consult with a full-time music faculty member before enrolling for guidance on course selection, private applied lessons placement, and ensemble auditions. Students are strongly encouraged to schedule a consultation during the semester prior to beginning the degree. For more information, see the music curriculum in this section.

Admission:
Students wishing to pursue this degree may do so prior to being formally admitted to the program. However, all students must fulfill the admissions requirements, noted under the Admissions Information section of the catalog, prior to graduation.

Terms:
Students have six years to complete the requirements for the program they have declared. If the requirements are not completed within six years, students will be required to meet degree requirements for the program in effect at that time. However, students not enrolled for three consecutive semesters (not including summer) must meet the curriculum requirements in effect at the time of re-enrollment. Students can always choose to complete the current curriculum degree requirements.

Total Hours:
A minimum of 67 semester credits is required for this degree.

Residency:
Fifteen of the last 24 credits or an accumulation of 36 credits must be completed at SWIC. Active duty U.S. armed forces and reserve service members are only required to earn 15 credits at SWIC.

GPA:
A minimum cumulative GPA of 2.00 is required for a degree.

English and Math Requirements for Degrees:
All students pursuing transfer degrees (AA, AS, AFA, AES) are encouraged to enroll in and complete their English 101 and Math requirement(s) (see checklist for options) within their first 24-30 semester credits of enrollment.

Transfer Resources:
Please view additional transfer resources at swic.edu/articulation.

SWIC Articulation Agreements:
SWIC has developed a number of Articulation Agreements with four-year universities to allow for seamless transfer into specific majors. These articulations list recommended coursework to prepare SWIC graduates for entry at the junior level. Please visit swic.edu/articulation to learn more about Articulation Agreements. Most colleges require a grade of "C" or better in a course for transferability of coursework.

Human Relations:
One of the following courses must be completed. The course that is selected may also be applied toward the Humanities or Social Science General Education requirement. For reference, these courses are listed in **white** print in the general education areas.

___ Humanities: HIST 230, LIT 117, LIT 215, LIT 216
___ Social Science: HIST 180, HIST 181, POLS 150
___ Behavioral Science: PSYC 295, SOC 153, SOC 203, SOC 230

Non-Western Culture:
One of the following courses must be completed. The course that is selected may also be applied toward the Humanities General Education requirement. For reference, these courses are **highlighted** in the general education areas.

___ Humanities: ART 103, HIST 286, LIT 205, PHIL 155
___ Social Science: GEOG 152, GEOG 202, HIST 101, HIST 102, HIST 114, HIST 115, HIST 117, HIST 118, POLS 241
___ Behavioral Science: ANTH 150

College Orientation:
Beginning students are encouraged to enroll in ORIE 101 College Orientation Seminar or ORIE 110 College Success Strategies. For information regarding this course, see the Course Description Guide at the back of the catalog.

Apply for Graduation:
Students must submit an application to Enrollment Services. Applications can be submitted through eSTORM or through Enrollment Services. To be considered for a specific term, applications must be received by the following dates:

Term	Application Date
Fall/December	Oct. 15
Spring/May	Feb. 15
Summer/July	June 15

Associate in Fine Arts/Music Education

Degree Requirements Checklist

General Education Core Curriculum

IAI General Education Core Curriculum (IAI GECC): Successful completion of the IAI GECC (12-13 courses / 37-41 credits) at SWIC will guarantee participating colleges and universities agree to accept the IAI GECC in lieu of their own comparable lower-division general education requirements.

COMMUNICATIONS (total of 3 courses / 9 semester credits) – A minimum grade of "C" is required for ENG 101 & 102

___ ENG 101 ___ ENG 102 ___ COMM 151

HUMANITIES AND FINE ARTS (total of 3 courses / 9 semester credits: at least 1 course from humanities and at least 1 course from fine arts)

Humanities (at least 1 course / 3 semester credits)

___ FREN 202	___ LIT 117	___ LIT 202	___ LIT 251*	___ PHIL 151
___ FILM 225	___ LIT 120	___ LIT 205	___ LIT 252*	___ PHIL 152
___ GERM 202	___ LIT 125	___ LIT 213*	___ LIT 290	___ PHIL 155
___ HIST 230	___ LIT 133	___ LIT 214*	___ LIT 291	___ PHIL 160
___ HIST 286	___ LIT 134	___ LIT 215	___ LIT 293/ED 293	___ SPAN 201
___ LIT 113	___ LIT 201	___ LIT 216	___ PHIL 150	

Fine Arts (2 courses / 6 semester credits) – Students are REQUIRED to complete MUS 101

___ MUS 101 ___ MUS 102 ___ MUS 110 ___ MUS 101 ___ THEA 120

SOCIAL SCIENCES AND BEHAVIORAL SCIENCES (total of 3 courses / 6 semester credits: 1 course each from at least 2 disciplines below)

Social Sciences (at least 1 course / 3 semester credits)

___ ECON 115	___ GEOG 202	___ HIST 115	___ HIST 181*	___ POLS 262*
___ ECON 201	___ HIST 101*	___ HIST 117	___ POLS 150*	___ POLS 270*
___ ECON 202	___ HIST 102*	___ HIST 118	___ POLS 240*	
___ GEOG 152	___ HIST 114	___ HIST 180*	___ POLS 241*	

Behavioral Sciences (at least 1 course / 3 semester credits)

___ ANTH 150	___ PSYC 151*	___ PSYC 251*	___ SOC 153*	___ SOC 230*
___ ANTH 160	___ PSYC 210*	___ PSYC 253*	___ SOC 203*	___ SOC 255*
___ ANTH 250	___ PSYC 250*	___ PSYC 295*	___ SOC 220*	

Additional Social Science/Behavioral Science (1 course / total of 3 semester credits)

___ Additional course from either Social Science or Behavioral Science

MATHEMATICS (total of 1 course / 3-4 semester credits)

___ MATH 106 (MATH 105 is required first)	___ MATH 113	___ MATH 205*
___ MATH 107 OR MATH 191 OR BUS 205*	___ MATH 203*	___ MATH 213
___ MATH 111	___ MATH 204*	

PHYSICAL AND LIFE SCIENCES (total of 2 courses: 1 Life Science; 1 Physical Science; with at least 1 of those being a laboratory course)

Life Science (1 course / total of 3-4 semester credits)	**Physical Science** (1 course / total of 3-4 semester credits)		
___ BIOL 100	___ ATY 101	___ ES 101	___ PHYS 151
___ BIOL 101*	___ CHEM 100	___ ES 102	___ PHYS 204*
___ BIOL 106	___ CHEM 101	___ ES 114	___ SCIE 101
___ BIOL 151	___ CHEM 105*	___ ES 180	___ SCIE 110
		___ ES 250	

HUMAN WELL-BEING (total of 2 semester credits) The courses below are not included in the IAI General Education Core Curriculum.

___ HES 130	___ HES 152	___ HES 156	___ HES 172	___ HRO 101
___ HES 131	___ HES 154	___ HES 158	___ HES 180	___ HRO 150
___ HES 151	___ HES 155	___ HES 160		___ SLS 103

Music Courses (total of 26 semester credits)

Music Theory: 2 courses (8 semester credits)

___ MUS 105 ___ MUS 106

Keyboard Skills: 2 courses (4 semester credits)

___ MUS 111 ___ MUS 112

Ensemble: 4 courses (4 semester credits)

Community Choir	Jazz Band	Concert Band	Guitar Ensemble
___ MUS 161	___ MUS 163	___ MUS 159	___ MUS 175
___ MUS 162	___ MUS 164	___ MUS 160	___ MUS 176
___ MUS 261	___ MUS 263	___ MUS 259	___ MUS 275
___ MUS 262	___ MUS 264	___ MUS 260	___ MUS 276

Applied Instruction: 4 courses (8 semester credits, preferably in one area or instrument)

___ MUS 219	___ MUS 223	___ MUS 227	___ MUS 231	___ MUS 235
___ MUS 220	___ MUS 224	___ MUS 228	___ MUS 232	___ MUS 236
___ MUS 221	___ MUS 225	___ MUS 229	___ MUS 233	
___ MUS 222	___ MUS 226	___ MUS 230	___ MUS 234	

Additional Music Electives: 1-2 courses (2 semester credits) – Students must complete 2 credits from the following options.

Private Applied Music for Enrichment (1 credit each)

___ MUS 119 ___ MUS 120 ___ MUS 134 ___ MUS 135

Ensembles (1 credit each)

Community Choir	Jazz Band	Concert Band	Guitar Ensemble	Vocal Jazz Ensemble
___ MUS 161	___ MUS 163	___ MUS 159	___ MUS 175	___ MUS 167
___ MUS 162	___ MUS 164	___ MUS 160	___ MUS 176	___ MUS 168
___ MUS 261	___ MUS 263	___ MUS 259	___ MUS 275	___ MUS 267
___ MUS 262	___ MUS 264	___ MUS 260	___ MUS 276	___ MUS 268

Private Applied Music (2 credits each)

___ MUS 219	___ MUS 223	___ MUS 227	___ MUS 231	___ MUS 235
___ MUS 220	___ MUS 224	___ MUS 228	___ MUS 232	___ MUS 236
___ MUS 221	___ MUS 225	___ MUS 229	___ MUS 233	
___ MUS 222	___ MUS 226	___ MUS 230	___ MUS 234	

Associate in Fine Arts/Music Performance

Program Code: 0050

Description:
These requirements are for students who are majoring in Music Performance and who plan to transfer to a four-year institution to complete a baccalaureate degree. AFA Music students complete their general education requirements at SWIC. Students pursuing the music major should consult with a full-time music faculty member before enrolling for guidance on course selection, private applied lessons placement, and ensemble auditions. Students are strongly encouraged to schedule a consultation during the semester prior to beginning the degree. For more information, see the music curriculum in this section.

Admission:
Students wishing to pursue this degree may do so prior to being formally admitted to the program. However, all students must fulfill the admissions requirements, noted under the Admissions Information section of the catalog, prior to graduation.

Terms:
Students have six years to complete the requirements for the program they have declared. If the requirements are not completed within six years, students will be required to meet degree requirements for the program in effect at that time. However, students not enrolled for three consecutive semesters (not including summer) must meet the curriculum requirements in effect at the time of re-enrollment. Students can always choose to complete the current curriculum degree requirements.

Total Hours:
A minimum of 67 semester credits is required for this degree.

Residency:
Fifteen of the last 24 credits or an accumulation of 36 credits must be completed at SWIC. Active duty U.S. armed forces and reserve service members are only required to earn 15 credits at SWIC.

GPA:
A minimum cumulative GPA of 2.00 is required for a degree.

English and Math Requirements for Degrees:
All students pursuing transfer degrees (AA, AS, AFA, AES) are encouraged to enroll in and complete their English 101 and Math requirement(s) (see checklist for options) within their first 24-30 semester credits of enrollment.

Transfer Resources:
Please view additional transfer resources at swic.edu/articulation.

SWIC Articulation Agreements:
SWIC has developed a number of Articulation Agreements with four-year universities to allow for seamless transfer into specific majors. These articulations list recommended coursework to prepare SWIC graduates for entry at the junior level. Please visit swic.edu/articulation to learn more about Articulation Agreements. Most colleges require a grade of "C" or better in a course for transferability of coursework.

Human Relations:
One of the following courses must be completed. The course that is selected may also be applied toward the Humanities or Social/Behavioral Science General Education requirement as applicable. For reference, these courses are listed in **white** print in the general education areas.

___ Humanities: HIST 230, LIT 117, LIT 215, LIT 216
___ Social Science: HIST 180, HIST 181, POLS 150
___ Behavioral Science: PSYC 295, SOC 153, SOC 203, SOC 230

Non-Western Culture:
One of the following courses must be completed. The course that is selected may also be applied toward the Humanities or Social/Behavioral Science General Education requirement as applicable. For reference, these courses are **highlighted** in the general education areas.

___ Humanities: ART 103, HIST 286, LIT 205, PHIL 155
___ Social Science: GEOG 152, GEOG 202, HIST 101, HIST 102, HIST 114, HIST 115, HIST 117, HIST 118, POLS 241
___ Behavioral Science: ANTH 150

College Orientation:
Beginning students are encouraged to enroll in ORIE 101 College Orientation Seminar or ORIE 110 College Success Strategies. For information regarding this course, see the Course Description Guide at the back of the catalog.

Apply for Graduation:
Students must submit an application to Enrollment Services. Applications can be submitted through eSTORM or through Enrollment Services. To be considered for a specific term, applications must be received by the following dates:

Term	Application Date
Fall/December	Oct. 15
Spring/May	Feb. 15
Summer/July	June 15

Associate in Fine Arts/Music Performance

Degree Requirements Checklist

General Education Core Curriculum

IAI General Education Core Curriculum (IAI GECC): Successful completion of the IAI GECC (12-13 courses / 37-41 credits) at SWIC will guarantee participating colleges and universities agree to accept the IAI GECC in lieu of their own comparable lower-division general education requirements.

COMMUNICATIONS (total of 3 courses / 9 semester credits) – A minimum grade of "C" is required for ENG 101 & 102

___ ENG 101 ___ ENG 102 ___ COMM 151

HUMANITIES AND FINE ARTS (total of 3 courses / 9 semester credits: at least 1 course from humanities and at least 1 course from fine arts)
Humanities (at least 1 course / 3 semester credits)

___ FREN 202	___ LIT 117	___ LIT 202	___ LIT 251*	___ PHIL 151
___ FILM 225	___ LIT 120	___ LIT 205	___ LIT 252*	___ PHIL 152
___ GERM 202	___ LIT 125	___ LIT 213*	___ LIT 290	___ PHIL 155
___ HIST 230	___ LIT 133	___ LIT 214*	___ LIT 291	___ PHIL 160
___ HIST 286	___ LIT 134	___ LIT 215	___ LIT 293/ED 293	___ SPAN 201
___ LIT 113	___ LIT 201	___ LIT 216	___ PHIL 150	

Fine Arts (2 courses / 6 semester credits) – Students are REQUIRED to complete MUS 101

___ MUS 101	___ MUS 102	___ MUS 110	___ MUS 101	___ THEA 120

SOCIAL SCIENCES AND BEHAVIORAL SCIENCES (total of 3 courses / 6 semester credits: 1 course each from at least 2 disciplines below)
Social Sciences (at least 1 course / 3 semester credits)

___ ECON 115	___ GEOG 202	___ HIST 115	___ HIST 181*	___ POLS 262*
___ ECON 201	___ HIST 101*	___ HIST 117	___ POLS 150*	___ POLS 270*
___ ECON 202	___ HIST 102*	___ HIST 118	___ POLS 240*	
___ GEOG 152	___ HIST 114	___ HIST 180*	___ POLS 241*	

Behavioral Sciences (at least 1 course / 3 semester credits)

___ ANTH 150	___ PSYC 151*	___ PSYC 251*	___ SOC 153*	___ SOC 230*
___ ANTH 160	___ PSYC 210*	___ PSYC 253*	___ SOC 203*	___ SOC 255*
___ ANTH 250	___ PSYC 250*	___ PSYC 295*	___ SOC 220*	

Additional Social Science/Behavioral Science (1 course / total of 3 semester credits)
___ Additional course from either Social Science or Behavioral Science

MATHEMATICS (total of 1 course / 3-4 semester credits)

___ MATH 106 (MATH 105 is required first)	___ MATH 113	___ MATH 205*
___ MATH 107 OR MATH 191 OR BUS 205*	___ MATH 203*	___ MATH 213
___ MATH 111	___ MATH 204*	

PHYSICAL AND LIFE SCIENCES (total of 2 courses: 1 Life Science; 1 Physical Science; with at least 1 of those being a laboratory course)

Life Science (1 course / total of 3-4 semester credits)	**Physical Science** (1 course / total of 3-4 semester credits)		
___ BIOL 100	___ ATY 101	___ ES 101	___ PHYS 151
___ BIOL 101*	___ CHEM 100	___ ES 102	___ PHYS 204*
___ BIOL 106	___ CHEM 101	___ ES 114	___ SCIE 101
___ BIOL 151	___ CHEM 105*	___ ES 180	___ SCIE 110
		___ ES 250	

HUMAN WELL-BEING (total of 2 semester credits) The courses below are not included in the IAI General Education Core Curriculum.

___ HES 130	___ HES 152	___ HES 156	___ HES 172	___ HRO 101
___ HES 131	___ HES 154	___ HES 158	___ HES 180	___ HRO 150
___ HES 151	___ HES 155	___ HES 160		___ SLS 103

Music Courses (total of 26 semester credits)
Music Theory: 2 courses (8 semester credits)

		Keyboard Skills: 2 courses (4 semester credits)	
___ MUS 105	___ MUS 106	___ MUS 111	___ MUS 112

Ensemble: 4 courses (4 semester credits)

Community Choir	Jazz Band	Concert Band	Guitar Ensemble
___ MUS 161	___ MUS 163	___ MUS 159	___ MUS 175
___ MUS 162	___ MUS 164	___ MUS 160	___ MUS 176
___ MUS 261	___ MUS 263	___ MUS 259	___ MUS 275
___ MUS 262	___ MUS 264	___ MUS 260	___ MUS 276

Applied Instruction: 4 courses (8 semester credits, preferably in one area or instrument)

___ MUS 219	___ MUS 223	___ MUS 227	___ MUS 231	___ MUS 235
___ MUS 220	___ MUS 224	___ MUS 228	___ MUS 232	___ MUS 236
___ MUS 221	___ MUS 225	___ MUS 229	___ MUS 233	
___ MUS 222	___ MUS 226	___ MUS 230	___ MUS 234	

Additional Music Electives: 1-2 courses (2 semester credits) – Students must complete 2 credits from the following options.
Private Applied Music for Enrichment (1 credit each)

___ MUS 119	___ MUS 120	___ MUS 134	___ MUS 135

Ensembles (1 credit each)

Community Choir	Jazz Band	Concert Band	Guitar Ensemble	Vocal Jazz Ensemble
___ MUS 161	___ MUS 163	___ MUS 159	___ MUS 175	___ MUS 167
___ MUS 162	___ MUS 164	___ MUS 160	___ MUS 176	___ MUS 168
___ MUS 261	___ MUS 263	___ MUS 259	___ MUS 275	___ MUS 267
___ MUS 262	___ MUS 264	___ MUS 260	___ MUS 276	___ MUS 268

Private Applied Music (2 credits each)

___ MUS 219	___ MUS 223	___ MUS 227	___ MUS 231	___ MUS 235
___ MUS 220	___ MUS 224	___ MUS 228	___ MUS 232	___ MUS 236
___ MUS 221	___ MUS 225	___ MUS 229	___ MUS 233	
___ MUS 222	___ MUS 226	___ MUS 230	___ MUS 234	

Accounting Pre-Major
Associate in Arts Degree

swic.edu/accounting

Department Chair: Dawn Peters, ext. 5487
Email: Dawn.Peters@swic.edu
Dean: Darrell Robin, Ed.D., ext. 5227
Email: Darrel.Robin@swic.edu

Accounting courses are useful to everyone in business. A major in accounting may lead to careers in business, industry or government. The Accounting pre-major prepares students to transfer to a four-year college or university and continue for a baccalaureate degree.

Articulation Agreements

- Southern Illinois University Carbondale - BS Accounting

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:
- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:
- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation/.

Associate in Arts Degree (0001) – Accounting Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Accounting should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Business Major Panel recommends the following general education courses for this major:
   - MATH 203 Analytic Geometry & Calculus I OR MATH 213 Calculus for Business & Social Sciences
   - PHIL 152 Ethics
   - ECON 201 Principles of Macroeconomics
   - ECON 202 Principles of Microeconomics)
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Business Major Panel that you take the following classes:
   - ACCT 110 Financial Accounting
   - ACCT 111 Managerial Accounting
   - BUS 205 Economic and Business Statistics
   - BUS 209 Business Computer Systems
3. The additional courses recommended below may be applicable toward a baccalaureate Accounting major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - BUS 215 Business Law
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in accounting including:
- Certified Public Accountant (requires an additional 30 hours and successful completion of the Uniform CPA Exam)
- Corporate accountant
- Financial analyst
- Forensic accountant
- Government accountant (e.g., IRS, FBI)
- Internal auditor
- Management consultant
- Public accountant
- Sports/entertainment accountant
- Tax accountant

Aerospace Studies (AS)

For information on the Air Force Reserve Officer Training Corps (AFROTC) and class schedules, please visit https://www.slu.edu/science-and-engineering/academics/parks-aviation-science/air-force-rotc/index.php, www.afrotc.com or call 314-977-8311.

The objective of the Air Force ROTC is to qualify students for appointment as second lieutenants in the United States Air Force. However, any student may enroll in the freshman/sophomore level aerospace studies courses and students may enroll in the junior/senior-level courses with the permission of the professor of Aerospace Studies.

The Department of Aerospace Studies at Saint Louis University and Southern Illinois University Edwardsville offers two- and four-year programs. Through an agreement, students register at SWIC and then attend classes at Saint Louis University. Aerospace Studies courses are not offered at any SWIC location.

The program is tailored for students with four years of studies. Applicants must be full-time students and must remain in good academic standing. The Aerospace Studies program is divided into two parts: the General Military Course, the freshman/sophomore-level curriculum, and the Professional Officer Course, the junior/senior level curriculum. The GMC covers two main themes: Heritage and Values and Team and Leadership Fundamentals. Freshmen cadets will enroll in the AS 101/102 courses which take place at SLU on Wednesdays from 2-3 p.m. AS 201/202 classes take place at SLU on Wednesdays from 1-2 p.m. The courses of the POC emphasize the professional development of the future Air Force officer. The curriculum covers Air Force Leadership and Management and Preparation for Active Duty. Field trips to Air Force bases instruction and familiarize the cadet with Air Force operations and organizations.

To be commissioned, AFROTC cadets must:
- Pass a military medical exam
- Obtain a favorable evaluation on an Armed Forces personal history security investigation.
- Be at least 18 years old. Flying applicants must complete commissioning requirements before age 29 and non-flying applicants must complete commissioning requirements by age 39. However, the age limit for non-flying applicants may be extended to age 42 for outstanding individuals.
- Be of good character (as determined by a favorable record with law enforcement authorities).
- Successfully complete all AFROTC course requirements.
- Complete at least a baccalaureate degree.

Students in the POC will receive a monthly subsistence allowance.

Field Training

Cadets in the program participate in summer training evaluation that varies between two to four weeks.. Field training is offered during the summer months at Maxwell Air Force Base, Alabama, usually between a student's sophomore and junior years. Major areas of evaluation include: Air Force Orientation, leadership evaluation, aircrew/aircraft orientation, survival training, base functions and physical training.

Leadership Laboratory

In conjunction with Aerospace Studies curriculum, leadership laboratory is taken two hours per week throughout the student's enrollment in AFROTC and is both organized and led by cadets enrolled in the professional officer course. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop each student's leadership potential. The first two years of the leadership laboratory include a study of Air Force customs and courtesies, drill and ceremonies, studying the environment of an Air Force officer; and learning about areas of opportunity available to commissioned officers. The last two years of the leadership laboratory involve planning and controlling of military activities of the cadet corps. LLAB is held at SLU on Wednesdays from 3:30-5:30 p.m. and is mandatory for all cadets in the AFROTC program.

Incoming freshmen can join by registering for the Aerospace Studies course title AS 101: Heritage and Values of the USAF I. Students with three years or less left until graduation will need to extend to 4 years to complete the program properly. If there are any questions about eligibility, contact the Unit Admissions Officer at AFROTC Detachment 207 at 314-977-8311 or by visiting https://www.slu.edu/science-and-engineering/academics/parks-aviation-science/air-force-rotc.

Air Force Scholarships

Students can compete for four, three-and-one-half, three, two-and-one-half year scholarships. These scholarships pay tuition, certain fees, and $900 per year for textbook costs. Scholarship recipients also receive a tax-free monthly subsistence allowance, Federal and Illinois state scholarships are available for AFROTC cadets – any academic major may apply. Additionally, Illinois Veterans Tuition Assistance is available for Illinois Veterans who qualify. Information on scholarships can be acquired by contacting AFROTC Det 207 by email or phone.

AEROSPACE STUDIES – U.S. AIR FORCE

- Participation in AFROTC is not required to take Aerospace courses.
- Aerospace Studies courses (AS 101 through AS 202) are basic courses designed to acquaint students with the United States Air Force and the opportunities available as an officer.

Some courses may have requisites. Refer to the Course Description Guide beginning on page 244.

Agriculture Pre-Major

Associate in Arts Degree

swic.edu/agriculture

Program Coordinator: Spencer Schuchman, ext. 5657
Email: Spencer.Schuchman@swic.edu
Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

Agriculture in today's world is a business – planning, production and marketing of agriculture products and supplies. One of every four jobs in Illinois is related to growing, processing and transporting food products. Students who enter the field of agriculture have many career opportunities, including new, nontraditional careers in technology driven areas.

Articulation Agreements

- McKendree - BS Agribusiness
- SIU-Carbondale - BS Crop, Soil & Environmental Management: Crop Production and Management
- SIU-Carbondale - BS Crop, Soil & Environmental Management: Soil Science

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Agribusiness, Farm and Financial Management Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Agribusiness, Farm and Financial Management should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Agriculture Major Panel recommends the following general education courses for this major:
   - BIOL 100 – General Biology: Ecology, Evolution & Genetics
   - CHEM 101 Introductory Chemistry OR CHEM 105 General Chemistry I
   - MATH 107 General Education Statistics OR MATH 191 Introduction to Statics
   - ECON 201 Principles of Macroeconomics
   - ECON 202 Principles of Microeconomics
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Agriculture Major Panel that you take the following classes:
   - AGRI 152 Agricultural Economics
   - AGRI 111 Animal Science
   - AGRI 121 Soil Science
   - AGRI 235 Crop Science
3. The additional courses recommended below may be applicable toward a baccalaureate Agribusiness, Farm and Financial Management major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - MATH 213 Calculus for Business & Social Sciences
   - HORT 102 Intro to Horticulture
   - ACCT 110 Financial Accounting
   - ACCT 111 Managerial Accounting
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Agricultural – Crop and Soil Science Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Agricultural – Crop and Soil Science should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Agriculture Major Panel recommends the following general education courses for this major:
   - BIOL 101 Principles of Biology I
   - CHEM 105 General Chemistry I
   - MATH 107 General Education Statistics OR MATH 191 Introduction to Statistics
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Agriculture Major Panel that you take the following classes:
   - AGRI 121 Soil Science
   - AGRI 235 Crop Science
   - BIOL 102 Principles of Biology II
   - CHEM 106 General Chemistry II
3. The additional courses recommended below may be applicable toward a baccalaureate Agricultural – Crop and Soil Science major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - AGRI 152 Agricultural Economics
   - AGRI 111 Animal Science
   - MATH 203 Analytic Geometry & Calculus I OR MATH 213 Calculus for Business & Social Sciences
   - HORT 102 – Intro to Horticulture
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in agriculture including:

- Farm manager
- Rancher
- Forester
- Forestry technician
- Fish and game warden
- Animal trainer
- Horticulturist
- Crop/soil conservationist
- Park ranger
- Agronomist
- Conservation agent
- Floral designer
- Wildlife manager
- Plant geneticist/breeder
- Agricultural researcher/developer
- Agricultural economist
- Animal management
- Agribusiness manager
- Grain merchandiser
- Food safety inspector
- Agricultural product retailer/salesperson
- High school teacher
- Agricultural scientist
- Cereal chemist
- Equine management

Anthropology Pre-Major
Associate in Arts Degree

swic.edu/anthropology

Department Chair: Carla Bills, ext. 7394
Email: Carla.Bills@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

Anthropology is the study of culture and biology with the goal of understanding what makes us uniquely human. In addition to documenting particular cultures, anthropologists are interested in the nature of culture and cultural change. Through its holistic approach, anthropology links the social sciences, life sciences, and humanities in the exploration of human variations and universals. The focus includes the biological origins of humans, the archaeological study of past cultures, and the exploration of modern day cultural diversity. The anthropological perspective is a useful tool for understanding modern life in its global context and meeting the challenges of cross-cultural interactions.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:
- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:
- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Anthropology Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Anthropology should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Behavioral Sciences department recommends the following general education courses for this major:
   - SOC 153 Introductory Sociology
   - PSYC 151 General Psychology
   - Foreign Language I & II
2. As you fulfill your degree requirements, it is **strongly recommended** by the Behavioral Sciences department that you take the following classes:
   - ANTH 150 Cultural Anthropology
   - ANTH 160 Physical Anthropology
   - ANTH 250 Introduction to Archeology
3. The additional courses recommended below may be applicable toward a baccalaureate Anthropology major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - ANTH 210 Native American Cultures
   - LIT 201 World Literature to Enlightenment
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in anthropology including:
- Anthropologist
- Archaeologist
- Paleontologist
- Cultural resource manager
- Historic preservationist
- Museum curator
- Community planner
- International human rights advocate
- Forensic anthropologist
- Cultural specialist for health care
- Corporate anthropology
- Law enforcement
- Social impact assessor
- Linguist

Art Pre-Major
Associate in Arts Degree

swic.edu/art

Department Chair: Cory Sellers, ext. 5429
Email: Cory.Sellers@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

Drawing and painting, photography, ceramics, digital art, sculpture and printmaking – all are important to art instruction at SWIC.

Full-time and part-time faculty members are degreed professional artists, known in their fields. They exhibit nationally and are called upon to lecture, consult and judge shows in the Illinois/Missouri area as well as throughout the nation. In addition to your classroom experience, you may have the opportunity to show your work in campus exhibits and see firsthand the techniques of reputed artists who are brought to the campus for seminars.

Personal directions within the visual arts should be coordinated with the Art faculty as soon as possible.

Articulation Agreements

- Eastern Illinois University - BFA Art: Studio Art
- SIU-Edwardsville – BA Art Studio

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:
- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:
- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) Art Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Art should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Art Major Panel recommends the following general education courses for this major:
   - ART 104 Art History I: Prehistoric-Gothic
   - ART 105 Art History II: Renaissance-Modern
   - SOC 153 Introductory Sociology
     OR PSYC 151 General Psychology
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Art Major Panel that you take the following classes:
   - ART 111 Basic Design I
   - ART 112 Basic Design II
   - ART 150 Drawing I
   - ART 250 Drawing II
3. The additional courses recommended below may be applicable toward a baccalaureate Art major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   After completion of the Art Core Courses listed in No. 2 above, enroll in Media-specific Studio courses (e.g., painting, ceramics, sculpture, graphic design, etc.) Select studio courses from at least two media. Transfer students are encouraged to develop a portfolio of their work.
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 transferable credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. Many transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Associate in Fine Arts Degree – Art (0052)

This degree program is for students who are majoring in Art and planning to transfer to a four-year institution to complete a baccalaureate degree. AFA students complete their general education requirements after they transfer to a four-year college or university. Students who are interested in pursuing the AFA-Art degree program should consult with a full-time art faculty member or an academic advisor.

Associate in Fine Arts Degree – Art (0052)

Students who plan to earn an Associate in Fine Arts-Art degree and then transfer to a four-year college or university to major in Art should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.** A portfolio review is often required for admission into a BA or BFA in Art at a four-year institution.

1. Since completion of the AFA degree does not complete the Illinois General Education Core Curriculum (GECC), students will need to complete the general education requirements of the school to which they transfer. General Education course requirements may vary by transfer institution. Fulfill the General Education and other institutional **requirements** for the Associate in Fine Arts-Art degree listed in the front of this section. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Art Major Panel recommends the following general education courses for this major:
   - SOC 153 – Introductory Sociology
     OR PSYC 151 – General Psychology
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Art Major Panel that you take the following classes:
   - ART 104 Art History I: Prehistoric-Gothic
   - ART 105 Art History II: Renaissance-Modern
   - ART 111 Basic Design I
   - ART 112 Basic Design II
   - ART 150 Drawing I
   - ART 250 Drawing II
   - ART 252 Life Drawing
3. The additional courses recommended below may be applicable toward a baccalaureate Art major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.

   After completion of the Art Core Courses listed in No. 2 above, enroll in Media-specific Studio courses (e.g., painting, ceramics, sculpture, graphic design, etc.). Select studio courses from at least two media. Transfer students are encouraged to develop a portfolio of their work.
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in art including:

- Freelance artist
- Ceramic artist
- Media designer/producer
- Advertising artist/designer
- Architect
- Illustrator
- Fashion artist/designer
- Graphic artist
- Animator
- Art salesperson
- Art critic
- Art buyer
- Interior designer
- Art educator
- Set/costume designer
- Photographer
- Art therapist
- Art museum curator
- Art conservator
- Art consultant
- Art historian
- Sculptor

Business Administration Pre-Major

Associate in Arts Degree

swic.edu/business-administration

Department Chair: Dawn Peters, ext. 5487
Email: Dawn.Peters@swic.edu
Dean: Darrell Robin, Ed.D., ext. 5227
Email: Darrel.Robin@swic.edu

Opportunities in business, industry, government and education are open to those who major in business. Careers include several kinds of accounting, business administration, office administration, business management, computer science, finance, retailing, marketing, banking, and consumer protection and awareness.

Articulation Agreements

- McKendree University – BBA Business Administration
- SIU-Carbondale - BS Business Administration
- SIU-Carbondale - BS Business Analytics
- SIU-Carbondale - BS Marketing
- SIU-Carbondale - BS Finance
- SIU-Carbondale - BS Management

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Business Administration Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Business Administration should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Business Major Panel recommends the following general education courses for this major:
   - MATH 203 Analytic Geometry & Calculus I OR MATH 213 Calculus for Business & Social Sciences
   - PHIL 152 Ethics
   - ECON 201 Principles of Macroeconomics
   - ECON 202 Principles of Microeconomics
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Business Major Panel that you take the following classes:
   - ACCT 110 Financial Accounting
   - ACCT 111 Managerial Accounting
   - BUS 205 Economic and Business Statistics
   - BUS 209 Business Computer Systems
3. The additional courses recommended below may be applicable toward a baccalaureate Business Administration major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - BUS 215 Business Law
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in business administration including:

- Entry-level manager
- Mid-level manager
- Bank manager

Communication Pre-Major

Associate in Arts Degree

swic.edu/speech

Department Chair : Julie Willis, ext. 4975
Email: Julie.Willis@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

Communication is a subject that is a benefit to everyone, no matter what field he or she plans to enter. Even the research scientist, who spends most of his or her time in a laboratory, is expected to give papers and present seminars. Others whose work is people-oriented fields will find a good background in communication to be invaluable to success. The Communication degree is applicable to a variety of career paths including but not limited to business, law and education. Communication and business as a combination may significantly enhance your chances for success in the business world.

Articulation Agreements

- Eastern Illinois University - BA Communication Studies

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Speech Communication Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Communications should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Media and Communication Arts Major Panel recommends the following general education courses for this major:
   - No specific General Education courses recommended
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Media and Communication Arts Major Panel that you take the following classes:
   - COMM 151 Fundamentals of Public Speaking
   - COMM 155 Interpersonal Communication
3. The additional courses recommended below may be applicable toward a baccalaureate Speech Communication major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - COMM 240 Group Communication
   - THEA 256 Theatre Acting
   - COMM 213 Introduction to Public Relations
   - THEA 120 Theatre Appreciation
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

Communication majors are frequently employed in areas such as:

- Teacher/professor
- Business management
- Advertising and marketing
- Broadcast media
- Public relations
- Sales
- Theatre
- Trial attorney

Criminal Justice Pre-Major

Associate in Arts Degree

swic.edu/criminal-justice

Coordinator: Eric Danford, ext. 5265
Email: Eric.Danford@swic.edu
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu

Criminal justice is the system in which crimes and criminals are detected, detained, tried and punished. People who study criminal justice actually learn about all the different components and inner workings of the system. Three main components make up the criminal justice system: law enforcement, courts and corrections. They work together to prevent and punish deviant behavior.

Articulation Agreements

- McKendree University – BA Criminal Justice
- Park University – BS Criminal Justice
- SIUE – BS Criminal Justice

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Criminal Justice Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Criminal Justice should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Criminal Justice Major Panel recommends the following general education courses for this major:
   - SOC 153 Introductory Sociology
   - PSYC 151 General Psychology
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Criminal Justice Major Panel that you take the following classes:
   - AOJ 100 Intro to Administration of Justice
   - AOJ 103 Introduction to Corrections
   - AOJ 153 Juvenile Delinquency
   - AOJ 160 Criminology
3. The additional courses recommended below may be applicable toward a baccalaureate Criminal Justice major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - SOC 203 Social Problems
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a Bachelor's degree in criminal justice including:

- Probation officer
- DEA agent
- Correctional officer
- Private detective
- FBI agent
- Fraud investigator
- Secret Service agent

Economics Pre-Major

Associate in Arts Degree

swic.edu/economics

Department Chair: Dawn Peters
Email: Dawn.Peters@swic.edu
Dean: Darrell Robin, Ed.D., ext. 5227
Email: Darrel.Robin@swic.edu

A major in economics will prepare students for employment in business and government. Economics is also an excellent major for students who plan on graduate study in law, business or any of the social sciences. A minor in economics is excellent for those who are majoring in any of the social sciences or business-related fields. ECON 201 and ECON 202 may be used to meet the social science course elective.

Articulation Agreements

- McKendree University – BBA Economics
- Southern Illinois University Carbondale - BA Economics

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Economics Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Economics should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Business Major Panel recommends the following general education courses for this major:
   - MATH 203 Analytic Geometry & Calculus I OR MATH 213 Calculus for Business & Social Sciences
   - PHIL 152 Ethics
   - ECON 201 Principles of Macroeconomics
   - ECON 202 Principles of Microeconomics
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Business Major Panel that you take the following classes:
   - ACCT 110 Financial Accounting
   - ACCT 111 Managerial Accounting
   - BUS 205 Economic and Business Statistics
   - BUS 209 Business Computer Systems
3. The additional courses recommended below may be applicable toward a baccalaureate Economics major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - BUS 215 Business Law
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in economics including:

- Entry-level manager
- Mid-level manager
- Sales manager
- Financial analyst
- Financial consultant
- Bank manager

Early Childhood Education – Pre-Major

Associate in Arts Degree

swic.edu/ece

Coordinator: Yvette Schultz, ext. 5309
Email: Yvette.Schultz@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

A bachelor's degree in Early Childhood Education will provide a person with the skills and knowledge to work with children from birth to second grade. Career opportunities include but are not limited to early childhood educator, parent education coordinator, social service coordinator, and program administrator. Students intending to find employment after completing a two-year degree should follow the Early Childhood Education Associate in Applied Science program in the blue pages of this catalog.

NOTE: Check the Illinois State Board of Education website (https://www.isbe.net/educatorlicensure) regularly for updates or changes to licensure requirements and grade levels associated.

Articulation Agreements

- National Louis University - B.A. Early Childhood Education

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Early Childhood Education Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Early Childhood Education should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Early Childhood Education Major Panel recommends the following general education courses for this major:
   - MATH 105 and MATH 106 Mathematics for Elementary Teachers I & II
   - CHEM 101 Introductory Chemistry OR SCIE 101 General Physical Science
   - ES 101 Earth Science OR ATY 101 Astronomy
   - BIOL 100 General Biology: Ecology, Evolution, & Genetics OR BIOL 101 Principles of Biology I
   - ART 101 Art Appreciation OR MUS 101 Music Appreciation
   - LIT 213 Early American Literature OR LIT 214 Modern American Literature
   - LIT 251 Early British Literature OR LIT 252 British and Commonwealth Literature
   - LIT 201 World Literature to Enlightenment OR LIT 202 World Literature from Enlightenment
   - PSYC 151 General Psychology
   - POLS 150 Intro to American Government
   - HIST 180 U.S. History to 1865 OR HIST 181 U.S. History, 1865 to Present
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Early Childhood Education Major Panel that you take the following classes:
   - ECE 112 Growth & Development of Children
   - ECE 116 Children with Special Needs
   - ECE 250 Child, Family and Community
3. The additional courses recommended below may be applicable toward a baccalaureate Early Childhood Education major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - ED 267 Diversity in 21st Century Schools
   - ED 255 Introduction to Education
   - ED 252 or PSYC 252 Education Psychology
   - ED 265 Introduction to Special Education
   - ED 293 or LIT 293 Children's Literature
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

We also offer courses for those who hold a Professional Educator License (PEL) to obtain endorsements in Family and Consumer Sciences and Early Childhood Education.

Career Opportunities

A bachelor's degree in early childhood education will provide a person with the skills and knowledge to work with children from birth to second grade. After completing a bachelor's degree and state licensure requirements, students can find employment as a Pre-K through second grade teacher, Preschool for all teacher, or special education teacher. Those pursuing the non-licensure route can find employment as early intervention providers, Heat Start teacher, home visitor, prevention initiative teacher or ECE site director.

Education – Elementary Pre-Major

Associate in Arts Degree

swic.edu/elementary-ed

Coordinator/Faculty: Jessica Day, ext. 5011
Email: Jessica.Day@swic.edu
Dean: Darrell Robin, Ed.D., ext. 5227
Email: Darrel.Robin@swic.edu

Education is the field of knowledge that deals with the various aspects of the profession of teaching. Among other things, teaching involves making decisions about what and how to teach, engaging students in learning activities, managing learning environments, and assessing student behavior and achievement. Elementary education generally encompasses teaching grades K-8, but the current license in Illinois is for grades 1-6 (with middle level endorsements for 6-8). It is also highly suggested that elementary teachers consider a special education Reading endorsement. Note: Check the Illinois State Board of Education website (https://www.isbe.net/educatorlicensure) regularly for updates/changes to licensure requirements.

Articulation Agreements

- Greenville University – BS Elementary Education
- Lindenwood University - BA Elementary Education
- McKendree University – BS Elementary Education
- McKendree University - BS Math Middle School Education
- SIU-Edwardsville - BS Elementary Education

Associate in Arts Degree (0001) – Elementary Education Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in elementary education should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. **General Education course preferences may vary by transfer institution.**
2. Students must earn **at least 64 transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Most** transfer institutions require a higher GPA for admission (usually a 2.75 or higher) to the institution and/or specific majors. *The state of Illinois requires a C or better on all courses to be used for licensure.*

Important Information

The following semester sequence is designed as a guide for students enrolled full time. Students planning to attend part time must meet with the program coordinator to develop a schedule. Course requisites will affect course sequencing. Please refer to the *Course Description Guide* (yellow section) of this catalog for course requisites.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

First Year

First Semester			Semester Credits
ENG	101	Rhetoric & Composition I**	3
COMM	151	Fundamentals of Public Speaking	3
MATH	105	Math for Elementary Teachers* OR	
ORIE	110	College Success Strategies	3-4
ED	255	Intro to Education**	3
ART	103	Survey of Non-Western Art OR	
MUS	110	World Music	3
Total Semester Credits			**15-16**

Second Semester			Semester Credits
ENG	102	Rhetoric & Composition II	3
MATH	106	Math for Elementary Teachers II*	4
PSYC	250	Child Development OR	
PSYC	151	General Psychology	3
ED	267	Methods & Materials for Teaching Diverse Learners*, **	3
SCIE	101	General Physical Science	4
Total Semester Credits			**17**

Second Year

Third Semester			Semester Credits
ED	293	Children's Literature**	3
ED	260	Intro to Educational Technology**	3
ED	252	Educational Psychology	3
BIOL	100	General Biology	4
HES	151	Personal Health and Wellness	2
Education Elective			3
Total Semester Credits			**18**

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Fourth Semester			Semester Credits
ENG	102	Rhetoric & Composition II	3
ED	265	Intro to Special Education**	3
POLS	150	Intro to American Government	3
ART	101	Intro to Art OR	
MUS	101	Intro to Music	3
Education Elective			3
Education Elective			3
Total Semester Credits			**18**
Total Program Credits			**68-69**

Education Electives:

ED	252	Educational Psychology**	3
ED	270	Classroom Management	3
ED	273	Methods for Teaching Special Education*	3
ED	280	Literacy Methods*	3
ED	285	Reading in the Content Area*	3
ED	120	Paraprofessional Test Prep**	1
ED	299	Special Topics in Education	1-3

*Needed for teacher Licensure
** Courses within the Paraprofessional Certificate and Apprenticeship Program
Students in the AA in Education may participate in a paraprofessional certificate and/or apprenticeship with local school partners, gaining paid, hands-on classroom experience while completing coursework. This opportunity allows students to apply learning in real educational settings and build professional skills early in their academic journey.
Courses in the Paraprofessional Certificate stack directly into the AA in Education, allowing students to earn a credential along the way without adding time or cost. This flexible pathway supports students who want to start working as paraprofessionals, earn while they learn, and continue seamlessly toward transfer and teacher preparation programs. Please visit https://www.swic.edu/academics/transfer-degrees/education/education-apprenticeship/ for more information

Career Opportunities

SWIC offers courses leading to an Associate in Arts degree, which can lead to employment as a paraprofessional (teacher's aide), support staff, or short-term sub in a school district. In some instances, career paths in coaching or curriculum development may also be possible if choosing not to pursue a bachelor's degree. Students may transfer to a four-year institution for the pursuit of a bachelor's degree in elementary education. Students completing a bachelor's degree in elementary education may be eligible for certification to teach.

Education – Secondary Pre-Major

Associate in Arts Degree

swic.edu/secondary-ed
Coordinator/Faculty: Jessica Day, ext. 5011
Email: Jessica.Day@swic.edu
Dean: Darrell Robin, Ed.D., ext. 5227
Email: Darrell.Robin@swic.edu

Education is the field of knowledge that deals with the various aspects of the profession of teaching. Among other things, teaching involves making decisions about what and how to teach, engaging students in learning activities, managing learning environments, and assessing student behavior and achievement. Secondary education generally encompasses teaching grades 9-12, with middle level endorsements for grades 6-8, and focuses on a specific content area of study (e.g.: science, math, English, or social studies). To obtain additional endorsements in various teaching areas, a student must receive a minimum of 18 credit hours in the content-area, and take a content exam. Note: Check the Illinois State Board of Education website (https://www.isbe.net/educatorlicensure) regularly for updates/changes to licensure. requirements.

Articulation Agreements

- McKendree University – BS Math Secondary Education

Associate in Arts Degree (0001) – Secondary Education Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in secondary education should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. **General Education course preferences may vary by transfer institution.**
2. Students must earn **at least 64 transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Most** transfer institutions require a higher GPA for admission (usually a 2.75 or higher) to the institution and/or specific majors. *The state of Illinois requires a C or better on all courses to be used for licensure.*

Important Information

The following semester sequence is designed as a guide for students enrolled full time. Students planning to attend part time must meet with the program coordinator to develop a schedule. Course requisites will affect course sequencing. Please refer to the *Course Description Guide* (yellow section) of this catalog for course requisites.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

First Year

First Semester			Semester Credits
ENG	101	Rhetoric & Composition I**	3
COMM	151	Fundamentals of Public Speaking	3
ED	255	Intro to Education**	3
MATH	111	Liberal Arts Math OR IAI Math	4
IAI Fine Arts			3
Total Semester Credits			**16**

Second Semester			Semester Credits
ED	265	Intro to Special Education**	3
ENG	102	Rhetoric & Composition II	3
SCIE	101	General Physical Science	4
PSYC	151	General Psychology OR	
IAI Behavioral or Social Science			3
Education Elective or content specialization area class			3-4
Total Semester Credits			**16**

Second Year

Third Semester			Semester Credits
ED	267	Methods & Materials for Teaching Diverse Learners*, **	3
BIOL	100	General Biology	4
LIT/ED	293	Children's Literature**	3
HES	151	Personal Health and Wellness	2
IAI Behavioral or Social Science			3
Education Elective or content specialization area class			3-4
Total Semester Credits			**18-19**

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Fourth Semester			Semester Credits
ED	260	Intro to Educational Technology**	3
ED	252	Educational Psychology	3
POLS	150	Intro to American Government	3
ART	110	Survey of Non-Western Art OR	
MUS	103	Music Literature OR	
LIT	205	Lit of Non-Western Countries	3
Total Semester Credits			**15**
Total Program Credits			**64**

Education Electives:

ED	252	Educational Psychology**	3
ED	270	Classroom Management	3
ED	273	Methods for Teaching Special Education*	3
ED	280	Literacy Methods*	3
ED	285	Reading in the Content Area*	3
ED	120	Paraprofessional Test Prep**	1
ED	299	Special Topics in Education	1-3

*Needed for teacher Licensure
** Courses within the Paraprofessional Certificate and Apprenticeship Program

Students in the AA in Education may participate in a paraprofessional certificate and/or apprenticeship with local school partners, gaining paid, hands-on classroom experience while completing coursework. This opportunity allows students to apply learning in real educational settings and build professional skills early in their academic journey.

Courses in the Paraprofessional Certificate stack directly into the AA in Education, allowing students to earn a credential along the way without adding time or cost. This flexible pathway supports students who want to start working as paraprofessionals, earn while they learn, and continue seamlessly toward transfer and teacher preparation programs. Please visit https://www.swic.edu/academics/transfer-degrees/education/education-apprenticeship/ for more information

Career Opportunities

SWIC offers courses leading to an Associate in Arts degree, which can lead to employment as a paraprofessional (teacher's aide), support staff, or short-term sub in a school district. In some instances, career paths in coaching or curriculum development may also be possible if choosing not to pursue a bachelor's degree. Students may transfer to a four-year institution for the pursuit of a bachelor's degree in Secondary Education in a particular content area. Students completing a bachelor's degree in Secondary Education may be eligible for certification to teach.

Education – Special Education Pre-Major

Associate in Arts Degree

swic.edu/special-ed

Coordinator/Faculty: Jessica Day, ext. 5011
Email: Jessica.Day@swic.edu
Dean: Darrell Robin, Ed.D., ext. 5227
Email: Darrell.Robin@swic.edu

Education is the field of knowledge that deals with the various aspects of the profession of teaching. Among other things, teaching involves making decisions about what and how to teach, engaging students in learning activities, managing learning environments, and assessing student behavior and achievement. Special Education may serve students from birth to 21 years of age, with a range of disabilities from mild to severe, in a variety of settings. Note: Check the Illinois State Board of Education website (https://www.isbe.net/educatorlicensure) regularly for updates/ changes to licensure requirements.

Articulation Agreements

- SIU-Edwardsville - BS Special Education
- Lindenwood University - BA Special Education

Associate in Arts Degree (0001) – Special Education Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in special education should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. **General Education course preferences may vary by transfer institution.**
2. Students must earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Most** transfer institutions require a higher GPA for admission **(usually a 2.75 or higher)** to the institution and/or specific majors. ***The state of Illinois requires a C or better on all courses to be used for licensure.***

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Important Information

The following semester sequence is designed as a guide for students enrolled full time. Students planning to attend part time must meet with the program coordinator to develop a schedule. Course requisites will affect course sequencing. Please refer to the *Course Description Guide* (yellow section) of this catalog for course requisites.

First Year

First Semester			Semester Credits
ENG	101	Rhetoric & Composition I**	3
COMM	151	Fundamentals of Public Speaking	3
MATH	105	Math for Elementary Teachers* OR	
ORIE	110	College Success Strategies	3-4
ED	255	Intro to Education**	3
IAI Fine Arts			3
Total Semester Credits			**15-16**

Second Semester			Semester Credits
ENG	102	Rhetoric & Composition II	3
MATH	106	Math for Elementary Teachers II*	4
PSYC	250	Child Development OR	
PSYC	151	General Psychology OR	
Behavioral or Social Science			3
ED	267	Methods & Materials for Teaching Diverse Learners*, **	3
SCIE	101	General Physical Science	4
Total Semester Credits			**17**

Second Year

Third Semester			Semester Credits
ED	293	Children's Literature**	3
ED	260	Intro to Educational Technology**	3
ED	252	Educational Psychology	3
BIOL	100	General Biology	4
HES	151	Personal Health and Wellness	2
ED	265	Intro to Special Education**	3
Total Semester Credits			**18**

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Fourth Semester			Semester Credits
Education Elective			3
POLS	150	Intro to American Government	3
ED	273	Methods for Teaching Special Education*	3
ART	103	Survey of Non-Western Art OR	
MUS	110	World Music	3
Education Elective			3
Total Semester Credits			**15**
Total Program Credits			**65-66**

Education Electives:

ED	252	Educational Psychology**	3
ED	270	Classroom Management	3
ED	273	Methods for Teaching Special Education*	3
ED	280	Literacy Methods*	3
ED	285	Reading in the Content Area*	3
ED	120	Paraprofessional Test Prep**	1
ED	299	Special Topics in Education	1-3

*Needed for teacher Licensure
** Courses within the Paraprofessional Certificate and Apprenticeship Program
Students in the AA in Education may participate in a paraprofessional certificate and/or apprenticeship with local school partners, gaining paid, hands-on classroom experience while completing coursework. This opportunity allows students to apply learning in real educational settings and build professional skills early in their academic journey.
Courses in the Paraprofessional Certificate stack directly into the AA in Education, allowing students to earn a credential along the way without adding time or cost. This flexible pathway supports students who want to start working as paraprofessionals, earn while they learn, and continue seamlessly toward transfer and teacher preparation programs. Please visit https://www.swic.edu/academics/transfer-degrees/education/education-apprenticeship/ for more information

Career Opportunities

SWIC offers courses leading to an Associate in Arts degree, which can lead to employment as a paraprofessional (teacher's aide), support staff, or short-term sub in a school district. In some instances, career paths in coaching or curriculum development may also be possible if choosing not to pursue a bachelor's degree. Students may transfer to a four-year institution for the pursuit of a bachelor's degree in elementary education. Students completing a bachelor's degree in elementary education may be eligible for certification to teach.

English Pre-Major

Associate in Arts Degree

swic.edu/english

Department Chair/Faculty: Dianna Shank, PhD, ext. 5417
Email: Dianna.Shank@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

The discipline of English is more than just the language that we speak every day. While it is difficult to define English, the English pre-major at SWIC can best be described as a discipline that prepares students for a more advanced study of linguistics, rhetoric and composition, creative writing, literature and literary criticism, cultural studies, English education, and professional writing and communications. Courses in English are designed to help students become more sophisticated and knowledgeable critical readers of written, oral, and visual texts as well as to help students produce more sophisticated written, oral, and visual texts of their own.

Articulation Agreements

- SIU-Carbondale – BA English
- SIU-Edwardsville – BA English

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – English Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in English should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) English Major Panel recommends the following general education courses for this major:
   - LIT 120 Introduction to Poetry
     OR LIT 125 Drama as Literature
     OR Any General Education Humanities and Fine Arts classes not recommended for the major below.
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI English Major Panel that you take up to three of the following core survey courses:
   - LIT 251 Early British Literature
   - LIT 252 British & Commonwealth Literature
   - LIT 213 Early American Literature
3. The additional courses recommended below may be applicable toward a baccalaureate English major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - ENG 101 Rhetoric & Composition I
   - ENG 102 Rhetoric & Composition II
   - ENG 107 Creative Writing
   - ENG 207 Advanced Creative Writing
   - LIT 201 World Literature to Enlightenment
   - LIT 202 World Literature from Enlightenment
   - LIT 205 Literature of Non-Western Countries
   - LIT 214 Modern American Literature
   - LIT 215 Contemporary Multicultural American Literature
   - LIT 216 African American Literature
   - Three to four semesters of the same Foreign Language depending on student's high school background. Two years in high school may substitute for the first two college semesters.
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply or graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

Because of the disciplines emphasis on critical thinking and reasoning and on achieving a level of sophistication and knowledge in both the reading and writing of texts, English majors are ideal candidates for the following jobs:

- Education
- Lawyer
- Educational technology
- Blogger
- Editor/writer
- Journalist/fact checker
- Technical writer
- Marketing/advertising/sales
- Non-profit/community organization

In addition, an English major/minor can be an ideal way to help prepare for graduate programs in the humanities or social sciences as well as law school.

English Placement Guide *through 12/31/2026*

A student who has any one of the measures presented in a column will meet placement requirements for that course:

	ENG 94: Integrated Reading & Writing	ENG 97: College Writing Strategies	ENG 101: Rhetoric & Composition I + ENG 100: Accelerated English Learning Lab	ENG 101: Rhetoric & Composition I
Unweighted Cumulative HS GPA			2.5 - 2.99	3.0 - 4.0
ACT English		12 or above	17 or above	18 or above
SAT English		370 or above	371 - 479	480 or above
HiSet Language Arts/Reading				15 or above
GED Reasoning				165 or above
Accuplacer Next Gen English Placement Exam	212 - 225	226 - 239	240 - 249	250 or above
High School Transitional English (TE001-ELA)	D or lower		C or higher	C or higher**
Completion of Developmental English (Writing/Composition) at Accredited Institution			C or higher***	C or higher***

**students earning a C should also have a recommendation from their high school Transitional English teacher to take ENG 101 standalone or ENG 101+ENG 100 co-enrollment – this recommendation is to be sent to and reviewed by the English Department Chair

***with English Department Chair approval

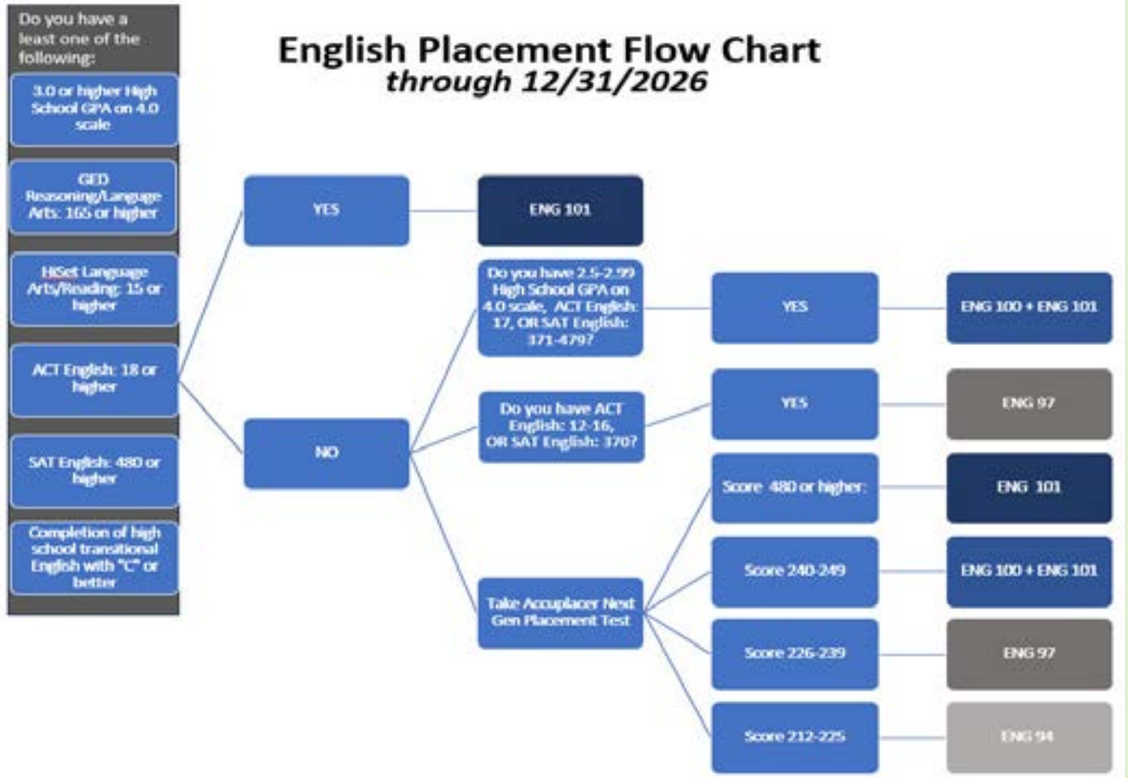
Multiple Measures English Placement Guide *effective 1/1/2027*

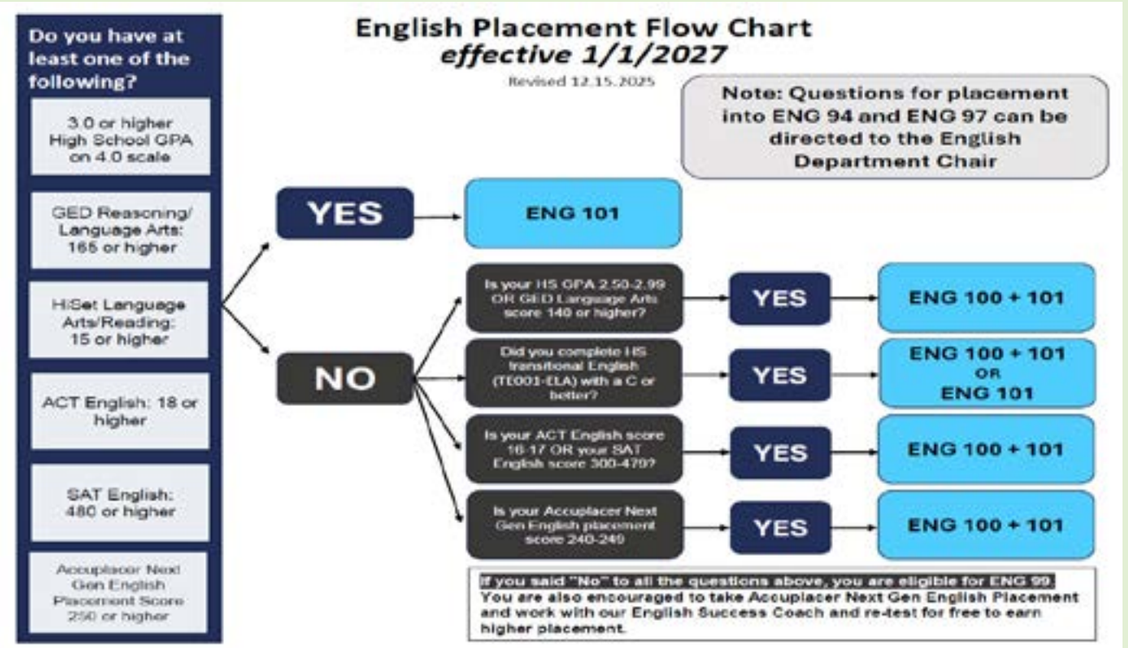
A student who has any ONE of the measures listed in a column meets placement for that course:

Questions for ENG 94 or ENG 97 placement can be directed to the English Department Chair	ENG 99: Critical Reading and Writing (recommended)	ENG 100: Accelerated English Learning Lab + ENG 101: Rhetoric and Composition I	ENG 101: Rhetoric and Composition I
SWIC Placement	CRLAD/CWR -none	CRLAD/CWR 25	CRLAD/CWR 30
Unweighted High School GPA (7th sem. min.)		2.50-2.99	3.00 or higher
ACT English		16 or higher	18 or higher
SAT English		300 or higher	480 or higher
HiSet Language Arts/Reading			15 or higher
GED Reasoning		140 or higher	165 or higher
Accuplacer next Gen English Placement Exam		240-249	250 or higher
High School Transitional English		TE001-ELA with C or better*	TE001-ELA with C or better*
Prior College Coursework**		ENG 94, 97, or 99 with a passing grade. *Specific placement level based on portfolio assessment*	ENG 94, 97, or 99 with a passing grade. *Specific placement level based on portfolio assessment*

* Students earning a C should also have a recommendation from their high school Transitional English teacher to take ENG 101 standalone or ENG 101+ENG 100 co-enrollment – this recommendation is to be sent and reviewed by the English Department Chair

** Developmental coursework taken at another college will be evaluated by English Department Chair for appropriate placement level. Students who successfully complete ENG 99 will be placed in either ENG 100 + 101 or ENG 101 standalone based on the assessment of their ENG 99 writing portfolio.





Exercise Science

Associate in Arts Degree

swic.edu/exercise-science

Department Chair/Faculty: Scott Wolf, ext 7435
Email: Scott.Wolf@swic.edu
Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

Exercise science is the study and application of scientific principles of human movement. As the nation addresses health issues associated with physical inactivity, employment opportunities in exercise science, fitness and wellness are expected to grow at a faster than average rate. The Exercise Science pre-major will provide students with opportunities to acquire the knowledge, skills, abilities and values that are essential for competency as a professional in the field of personal training and upper division baccalaureate study in exercise science.

Articulation Agreements

- SIUE – BS Exercise Science
- McKendree - BS Exercise Science, MS Athletic Training

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Exercise Science Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Exercise Science should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Health & Exercise Science department recommends the following general education courses for this major:
   - BIOL 101 Principles of Biology I
   - CHEM 101 Introductory Chemistry
     OR CHEM 105 General Chemistry I
   - PSYC 151 General Psychology
   - HES 151 Personal Health & Wellness
2. As you fulfill your degree requirements, it is **strongly recommended** by the Health & Exercise Science department that you take the following classes:
   - HES 170 Introduction to Exercise Science
   - HES 156 Individual Exercise and Health
   - HES 155 Physical Fitness & Wellness
   - BIOL 157 Human Anatomy & Physiology I
   - BIOL 158 Human Anatomy & Physiology II
3. The additional courses recommended below may be applicable toward a baccalaureate Exercise Science major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - CHEM 103 Intro Organic & Biological Chemistry
   - HES 152 First Aid-Medical Self Help
   - HES 154 Nutrition, Exercise & Weight Management
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

Career opportunities in exercise science are expected to grow faster than the average. Career opportunities exist as:

- Personal trainer
- Strength and conditioning coach
- Health and fitness specialist
- Athletic trainer
- Sports medicine specialist
- Cardiopulmonary rehabilitation specialist
- Group exercise instructor
- Exercise physiologist
- Employee fitness director

Foreign Language Pre-Major

Associate in Arts Degree

swic.edu/foreign-language

Department Chair: Julie Willis, ext. 4975
email: Julie.Willis@swic.edu
Faculty: Adan Salinas
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

The study of language is profitable whether you are majoring in the arts, sciences or business. Spanish is the second most commonly spoken language in the United States and all science majors are encouraged to learn German and/or French. Business majors will discover that the ability to speak and understand a second or third language will give them employment advantages over those who are monolingual.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Foreign Language Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Foreign Language should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution.
2. As you fulfill your degree requirements, it is **strongly recommended** that you take the following classes:
   - First semester foreign language (FREN 101, GERM 101, SPAN 101)
   - Second semester foreign language (FREN 102, GERM 102, SPAN 102)
   - Third semester foreign language (FREN 201, GERM 201, SPAN 201)
   - Fourth semester foreign language (FREN 202, GERM 202, SPAN 202)
3. **Most** four-year colleges and universities will accept the following classes as foreign language major credit:
   - SPAN 211 Conversational Spanish I (for students majoring or minoring in Spanish)
   - SPAN 212 Conversational Spanish II (for students majoring or minoring in Spanish)
4. The **optional** courses listed below may be applicable toward a baccalaureate foreign language major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - Language courses in a second foreign language
   - History courses
   - Geography courses
   - LIT 201 World Literature to Enlightenment
   - LIT 202 World Literature from Enlightenment
5. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
6. Apply for graduation by the date published in the college calendar.
7. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in foreign language including:

- Foreign service and diplomacy
- International aid organizations
- International business and trade
- Foreign news correspondent
- Bilingual/English as a second language teacher
- Foreign student advisor
- Travel and hospitality
- Health and medical professions
- Social work
- Interpreter and translator

Geography Pre-Major
Associate in Arts Degree

swic.edu/geography

Department Chair: Carolyn Myers, Ph.D., ext. 5404
Email: Carolyn.Myers@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

Geography is the study of pattern and place on the earth's surface, that is, how the earth's surface is organized and used, and how its natural and cultural landscapes fuse into the powerful context of place. In SWIC Geography courses, students explore the processes that give rise to geographic patterns, examine the spatial outcomes of environmental and social forces, and learn to use state-of-the-art mapping software to display and analyze the world around us.

Articulation Agreements
- Eastern Illinois University - BS Geography: Environmental/ Physical Geography
- Eastern Illinois University - BS Geography: Human Geography
- SIU-Edwardsville - BS Geography

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:
- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:
- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Geography Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Geography should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Social Sciences department recommends the following general education courses for this major:
   - ES 101 Earth Science
   - SOC 153 Introductory Sociology
2. As you fulfill your degree requirements, it is **strongly recommended** by the Social Sciences department that you take the following classes:
   - GEOG 152 World Regional Geography
   - GEOG 202 Economic Geography
3. The additional courses recommended below may be applicable toward a baccalaureate Geography major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - GEOG 151 Geography of the U.S. and Canada
   - GEOG 240 Intro to Mapping and GIS
   - GEOG 241 Geographic Info Systems II
   - ES 250 Introduction to Meteorology
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities
Geography majors and minors find work in the following areas:
- Resource management
- Geospatial Technology
- Urban and regional planning
- Other fields in business, education, government and industry

Health/Physical Education Pre-Major
Associate in Arts Degree

swic.edu/phys-ed

Department Chair/Faculty: Scott Wolf, ext 7435
Email: Scott.Wolf@swic.edu
Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

The Health/Physical Education pre-major is primarily designed to prepare students for careers in teaching physical education and/or health education, coaching, or recreation.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:
- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:
- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Health/Physical Education Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Health/ Physical Education should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Health & Exercise Science department recommends the following general education courses for this major:
   - BIOL 100 – General Biology: Ecology, Evolution, & Genetics
     OR BIOL 101 – Principles of Biology I
   - CHEM 101 – Introductory Chemistry
     OR CHEM 105 – General Chemistry I
   - PSYC 151 – General Psychology
   - HES 151 – Personal Health & Wellness
2. As you fulfill your degree requirements, it is **strongly recommended** by the Health & Exercise Science department that you take the following classes:
   - HES 170 Introduction to Exercise Science
   - HES 155 Physical Fitness & Wellness
   - HES 156 Individual Exercise and Health
   - HES 152 First Aid-Medical Self Help
   - HES 151 Personal Health
3. The additional courses recommended below may be applicable toward a baccalaureate Health/Physical Education major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - BIOL 157 Human Anatomy & Physiology I
   - HES 154 Nutrition, Exercise & Weight Management
   - ED 252 Educational Psychology
   - ED 255 Introduction to Education
   - HES 158 Consumer Health
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities
Career opportunities in health/physical education are expected to grow faster than the average. Career opportunities exist as:
- Elementary, middle, and high school teacher
- Physical education specialist
- Health educator
- Individual and team coach
- Athletic director
- Activities director
- Sporting goods sales and marketing
- Community/commercial recreation director
- Sports official/referee/umpire

Health Science/Safety Education Pre-Major

Associate in Arts Degree

swic.edu/health-science-safety

Department Chair/Faculty: Scott Wolf, ext 7435
Email: Scott.Wolf@swic.edu
Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

The Health Science/Safety Education major is designed to emphasize the importance of adopting healthy lifestyles through informed choice by empowering students to distinguish between behaviors that foster and those that hinder well-being. Students will be prepared primarily for careers in the public health sector.

Articulation Agreements

- SIUE – BS Community Health Education
- SIUE – BS Nutrition

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Health Science/Safety Education Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Health Science/Safety Education should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Health & Exercise Science department recommends the following general education courses for this major:
   - BIOL 101 Principles of Biology I
   - CHEM 101 Introductory Chemistry
   - PSYC 151 General Psychology
   - HES 151 Personal Health & Wellness
   - SOC 153 Introductory Sociology
2. As you fulfill your degree requirements, it is **strongly recommended** by the Health & Exercise Science department that you take the following classes:
   - HES 152 First Aid-Medical Self Help
   - HES 154 Nutrition, Exercise & Weight Management
   - HES 158 Consumer Health
3. The additional courses recommended below may be applicable toward a baccalaureate Health Science/Safety Education major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - BIOL 105 Human Biology **OR** BIOL 157 Human Anatomy & Physiology I
   - BIOL 250 Microbiology
   - PSYC 270 Health Psychology
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

Career opportunities in health science/safety education are expected to grow faster than the average. Career opportunities exist as:

- First Aid/CPR/AED instructor
- Health behavior specialist
- Community health educator
- Environmental health specialist
- Industrial hygienist
- Occupational health and safety technician
- Health consultant
- Alcohol or drug abuse consultant

History Pre-Major

Associate in Arts Degree

swic.edu/history

Department Chair: Carolyn Myers, Ph.D., ext. 5404
Email: Carolyn.Myers@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

To understand the present and prepare for the future, we must understand the past. The study of history provides a solid foundation of knowledge which equips us to better comprehend our world. The History Department offers students a wide range of opportunities to study in areas as diverse as American History, European History, World History, and the History of Religion, as well as the histories of Latin America, Asia, Africa and the Middle East. An associate degree with an emphasis on history provides a basic overview of the discipline and prepares you to transfer to a four-year history program. A Bachelor of Arts degree in History prepares students for careers in business, industry, or government, as well as for continued study leading to advanced degrees, for professional careers in academia, and in various archival and research fields. A minor in history is a good choice for any of the other social sciences as well as for English, foreign language and journalism.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Articulation Agreements

- Eastern Illinois University - BS History

Associate in Arts Degree (0001) – History Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in History should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) History Major Panel recommends the following general education courses for this major:
   - Two to four semesters of the same Foreign Language depending on student's high school background and requirements at school to which student plans to transfer.
   - Students pursuing history as a major are advised to take non-history courses to fulfill the GECC Humanities and Social and Behavioral Sciences general education requirements.
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI History Major Panel that you take the following classes:
   - HIST 180 U.S. History to 1865
   - HIST 181 U.S. History, 1865 to Present
   - HIST 101 World Civilization I
   - HIST 102 World Civilization II
3. The additional courses recommended below may be applicable toward a baccalaureate History major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - HIST 114 Latin American History
   - HIST 115 Mid-East History
   - HIST 117 African History
   - HIST 118 Asian History
   - HIST 230 African-American History
   - HIST 250 20th Century Western Civilization
   - HIST 286 History of Religion
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in history including:

- Teacher
- Archivist
- News analyst
- Journalist
- Museum curator
- Historical preservationist
- Law
- Government
- Foreign Service

International Studies Pre-Major

Associate in Arts Degree

swic.edu/international-studies

Department Chair: Carolyn Myers, Ph.D., ext. 5404
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Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

International Studies is an interdisciplinary pre-major focusing on developing a greater understanding of the world than that provided by a single discipline. There are two possible concentrations within International Studies: (1) an international relations concentration that puts special emphasis on global issues and the relationships between states and (2) an area studies concentration that focuses on a deeper understanding of a single area of the world.

Articulation Agreements

- McKendree University – BA International Relations

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – International Studies Pre-Major – International Relations Concentration

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in international relations, international studies, political science, or history should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer. This is especially true if you are pursuing a degree in international or area studies as <u>these programs vary widely.</u>**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **<u>preferences</u>** may vary by transfer institution.
2. As you fulfill your degree requirements, it is **<u>strongly recommended</u>** that you take the following classes for a global perspective:
   - GEOG 152 World Regional Geography
   - POLS 240 Comparative Politics OR POLS 241 Comparative Politics Non-West
   - POLS 270 International Relations
   - Foreign language of your choice (two semesters)
3. It is **recommended** that you take the following classes:
   <u>Economic Perspective</u>
   - ECON 201 Principles of Macroeconomics **OR** GEOG 202 Economic Geography

   <u>Historical Perspective</u>
   - HIST 232 United States at War **OR** HIST 292 US Since 1945
   - HIST 286 History of Religion
4. The **<u>optional</u>** courses listed below are suggested for the indicated baccalaureate majors:
   <u>History</u>
   - HIST 101, 102 World Civilization I, II
   - HIST 180, 181 U.S. History

   <u>Political Science</u>
   - POLS 150 Introduction to American Government
   - POLS 280 Political Theory
5. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
6. Apply for graduation by the date published in the college calendar.
7. Earn at least 64 **<u>transferable</u>** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **<u>Many</u>** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree focusing on international studies:

- International business
- International risk assessment
- Foreign service/diplomacy
- International aid organizations
- Intelligence
- Journalist
- International travel

Associate in Arts Degree (0001) – International Studies Pre-Major – Area Studies Concentration

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in international studies, area studies, political science, or history should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer. This is especially true if you are pursuing a degree in international or area studies as <u>these programs vary widely.</u>**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **<u>preferences</u>** may vary by transfer institution.
2. As you fulfill your degree requirements, it is **<u>strongly recommended</u>** that you take the following classes for a global perspective:
   - GEOG 152 World Regional Geography
   - POLS 240 Comparative Politics OR POLS 241 Comparative Politics Nonwestern
   - POLS 270 International Relations
   - Foreign language of your choice (two semesters)
3. It is **recommended** that you take the following classes:
   <u>Cultural Perspective</u>
   - ANTH 150 Cultural Anthropology
   - LIT 201 World Literature to Enlightenment
   - LIT 202 World Literature from Enlightenment **OR** LIT 205 Literature of Developing/Non-Western Countries **OR** ART 103 Survey of Non-Western Art

   <u>Social Perspective</u>
   - One of the following HIST classes:
     HIST 114 Latin American History
     HIST 115 Mid East History
     HIST 117 African History
     HIST 118 Asian History
     HIST 286 History of Religion
4. The **<u>optional</u>** courses listed below are suggested for the indicated baccalaureate majors:
   <u>History</u>
   - HIST 101, 102 World Civilization I, II
   - HIST 180, 181 U.S. History

   <u>Political Science</u>
   - POLS 150 Introduction to American Government
   - POLS 280 Political Theory
5. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
6. Apply for graduation by the date published in the college calendar.
7. Earn at least 64 **<u>transferable</u>** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **<u>Many</u>** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree focusing on international studies:

- International business
- International risk assessment
- Foreign service/diplomacy
- International aid organizations
- Intelligence
- Journalist
- International travel

Journalism – Pre-Major

Associate in Arts Degree

swic.edu/journalism

Department Chair: Julie Willis, ext 4975
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Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

Journalism is the collection and periodical dissemination of current news and events or, more strictly speaking, the business of managing, editing, or writing for journals or newspapers. The application of the term "journalism" has broadened to include news reporting and commentaries on a wide variety of electronic media. Courses in the Journalism program examine the idea of news, the methods and techniques of news writing, types of journalistic stories and publications, news judgment, and ethical issues in journalism. With writing assignments that emphasize clarity and impact, some courses also apply practical research methods (including interviewing), copyediting, and the principles and techniques of electronic editing, information management, and publication design.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:
- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:
- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Journalism Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Journalism should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Media and Communication Arts Major Panel recommends the following general education courses for Journalism majors:
   - No specific General Education courses recommended.
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Media and Communication Arts Major Panel that you take the following courses to prepare for transfer as a Journalism major:
   - MCOM 101 Introduction to Journalism
   - MCOM 201 Introduction to Mass Communication
   - ART 116 Photography I
3. The additional courses recommended below may be applicable toward a baccalaureate Journalism major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - MCOM 240 Writing for Media
   - COMM 155 Interpersonal Communication
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

Because of the discipline's emphasis on critical thinking and reasoning and on achieving a level of sophistication and knowledge in both the reading and writing of texts, journalism majors are ideal candidates for the following jobs:
- Education
- Blogger
- Reporter
- Editor/writer
- Journalist/fact checker
- Technical writer
- Marketing/advertising/sales
- Communications specialist

In addition, a journalism major/minor can be an ideal way to help prepare for graduate programs in the humanities or social sciences as well as law school.

Literature Pre-Major

Associate in Arts Degree

swic.edu/literature

Department Chair/Faculty: Dianna Shank, PhD, ext. 5417
Email: Dianna.Shank@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

Literature is one of the great creative and universal means of communicating the emotional, spiritual, and intellectual concerns of humankind. Literature may instruct and inform, entertain, express personal joy or pain, or advocate a particular point of view – whether it is political, social, or aesthetic. Courses in literature are designed to help students become more sophisticated and knowledgeable critical readers of written, oral, and visual texts as well as to help students produce more sophisticated written, oral, and visual texts of their own.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:
- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:
- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) Literature Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in literature should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution.
2. As you fulfill your degree requirements, it is **strongly recommended** that you take the following classes:
   - LIT 213 Early American Literature
   - LIT 251 Early British Literature
   - LIT 252 British & Commonwealth Literature
   - Two years of a Foreign Language
3. **Most** four-year colleges and universities will accept the following class as literature major credit:
   - LIT 214 Modern American Literature II
4. The **optional** courses listed below may be applicable toward a baccalaureate literature major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - LIT 113 Introduction to Fiction
   - LIT 120 Introduction to Poetry
   - LIT 117 Literature by Women
   - LIT 125 Drama as Literature
   - LIT 201 World Literature to Enlightenment
   - LIT 202 World Literature from Enlightenment
   - LIT 205 Literature of Non-Western Culture
   - LIT 215 Contemporary Multicultural American Literature
   - LIT 216 African American Literature
   - LIT 290 Shakespeare - Comedies & Histories
   - LIT 291 Shakespeare - Tragedies & Romances
5. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
6. Apply for graduation by the date published in the college calendar.
7. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in literature including:
- Education
- Public relations
- Publishing
- Print and digital content development
- Technical writer
- Writer/author
- Editor
- Reporter
- Critic (drama, program)/reviewer

Mass Communication Pre-Major

Associate in Arts Degree

swic.edu/mass-comm

Department Chair: Julie Willis, ext 4975
Email: Julie.Willis@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

Mass Communication is one of the most competitive of fields, yet the growth of digital technologies and the emergence of new media are providing a wide range of career opportunities for those skilled in media arts and the technologies that connect diverse audiences.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Mass Communication Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Mass Communication should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Media and Communication Arts Major Panel recommends the following general education courses for this major:
   - FILM 115 – Film Appreciation
   - FILM 215 – Film History
   - FILM 225 – Film & Literature
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Media and Communication Arts Major Panel that you take the following classes:
   - MCOM 201 – Introduction to Mass Communication
3. The additional courses recommended below may be applicable toward a baccalaureate Mass Communications major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - MCOM 255 Broadcast Announcing
   - MCOM 230 Podcast and Radio Production
   - MCOM 240 Writing for Media
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

Mass communication majors are frequently employed in areas such as:

- Animation
- Community relations
- Copywriting
- Digital audio and video production
- Education
- Internet and computer technology
- Journalism
- Media management and leadership
- Media law
- Public relations and advertising
- Social media
- Training
- Voiceover
- Web design and development

Military Science – Army ROTC (MSC)

swic.edu/army-rotc

For information on the Army ROTC and class schedules, call 618-650-2503. Classes may be held at a SWIC campus or Southern Illinois University Edwardsville.

Military Science

The purpose of Military Science is to develop young women and men into junior commissioned officers for positions of responsibility in the Army Reserve, Army National Guard or active Army. Those who successfully complete the Reserve Officers' Training Corps program normally earn commissions as lieutenants in the United States Army.

Army ROTC

ROTC may be completed in several different ways as outlined below.

1. **Four-Year Option.** Military Science is traditionally offered as a four-year option. It is best to start as a freshman, but special arrangements can be made for those who start as sophomores. The first two years of Military Science are voluntary (without service obligation) and designed to give the students a perspective on their leadership ability and what the Army can offer them. Students who continue in ROTC and pursue a commission upon completion of the last two years of Military Science are provided with a subsistence allowance (up to $2,000) and all necessary uniforms and Military Science books.
2. **Two-Year Option.** The two-year option is designed to provide greater flexibility in meeting the needs of students desiring commissions in the United States Army. SWIC students who do not participate in the four-year or community college transfer option are eligible for enrollment at Southern Illinois University Edwardsville. Basic requisites for entering the two-year option are:
   a. Students must be accepted at Southern Illinois University Edwardsville.
   b. Students must be in good academic standing (minimum 2.0 GPA) and pass an Army medical examination.
   c. Students must have two academic years of study remaining (undergraduate or graduate). If students are undergraduates, they must have junior status.

Students will attend a six-week summer camp to obtain the knowledge acquired by students in the four-year option. Attendance at the basic camp does not obligate students in any way and is only intended to provide students experience with Army life and its opportunities. Students will be paid approximately $750 for attendance at basic camp.

ROTC Scholarships

The Army Reserve Officers' Training Corps currently has 12,000 scholarships in effect, which pay for tuition and fees, books, and provide $100 monthly for the academic year (four-year institution only). These scholarships cover periods of four years, three years, and in some circumstances two years. SWIC sophomores should apply in January for the two-year scholarships. Special consideration for scholarships is given to students in engineering, nursing, business, and any of the physical sciences. Scholarship students normally incur a four-year active duty obligation; however, they may request reserve duty to serve with the National Guard or Army Reserve, or may initially compete for scholarships which guarantee reserve or guard duty.

In addition, Illinois State Army ROTC scholarships are available at Southern Illinois University Edwardsville. These scholarships pay for tuition on a charter basis and are renewable. Please contact the Army ROTC Military Science professor for details.

Qualifications

All students who desire to enter the Army Reserve Officers' Training Corps must be United States citizens, be in good physical condition, and have high moral character. Students must be at least 17 years old to enroll and not over 30 when they receive their commission. Additional qualifications to be admitted into the advanced course include an academic average grade of C or better and passing an Army medical examination.

Academic Preparation

The SIUE Army Reserve Officers' Training Corps academic preparation consists of two parts: (1) earning a degree in the student's chosen academic subject, and (2) completion of 18 semester credits (four-year option) or 12 semester credits (two-year option) of the Military Science curriculum. The courses in Military Science are university-level academic courses. The curriculum consists of classroom instruction and a leadership laboratory in which students receive leadership experience.

Leadership Laboratory

Leadership Laboratory is required of all students enrolled in Military Science classes. Classes are held one hour each week unless otherwise designated. In addition, students attend one mandatory field training exercise each semester. Leadership Laboratory develops individual military skills and leadership ability through participation in drill and ceremonies, survival training, rappelling, field training exercises and exposure to progressively greater responsibilities within the Cadet Corps Organization.

Extracurricular Activities Sponsored by Army ROTC

Army ROTC students are encouraged to participate in a wide variety of extracurricular activities designed to enhance the development of individuals' leadership skills and military knowledge. These activities include the Color Guard, Ranger Club and intramural sports. Students not enrolled in ROTC may participate in these activities with the permission of the professor of Military Science.

Music Pre-Major

swic.edu/music

Department Chair : Andy Jensen, D.M.A., ext. 5032
Email: Andrew.Jensen@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

SWIC is the place to discover and develop your musical abilities, whether as a soloist, a member of a performing group or as a listener. Music faculty are recognized for their expertise and are active as performers, clinicians, festival directors, adjudicators and organizational leaders.

Students who intend to major in music and enroll in Private Applied Instruction should contact the department chair to arrange a music audition. The audition should be completed no later than the week before classes begin and preferably much earlier. Music scholarship are available throughout the academic year by applying through the SWIC Foundation at https//www.swic.edu.community/foundation.

Associate in Arts Degree (0001)

Transfer requirements vary by receiving institution.

First Year

Fall Semester		**Semester Credits**
MUS 104	Fundamentals of Music	3
MUS 111	Class Instruction in Piano	2
200 Level Private Applied Lessons		2
Music Performance Ensemble		1
	Concert Choir, MUS 161, 162, 261, 262	
	Concert Band, MUS 159, 160, 259, 260	
	Jazz Band, MUS 163, 164, 263, 264	
	Guitar Ensemble, MUS 175, 176, 275, 276	
ENG 101	Rhetoric & Composition*	3
Fine Arts/Humanities Course**		3
Social/Behavioral Science Course***		3
Total Semester Credits		**17**

Spring Semester		**Semester Credits**
MUS 112	Class Instruction in Piano II	2
200 Level Private Applied Lessons		2
Music Performance Ensemble		1
	Concert Choir, MUS 161, 162, 261, 262	
	Concert Band, MUS 159, 160, 259, 260	
	Jazz Band, MUS 163, 164, 263, 264	
	Guitar Ensemble, MUS 175, 176, 275, 276	
ENG 102	Rhetoric & Composition II	3
Social/Behavioral Science Course		3
COMM 151	Fundamentals of Public Speaking	3
Fine Arts/Humanities Course		3
Total Semester Credits		**17**

Second Year

Fall Semester		**Semester Credits**
200 Level Private Applied Lessons		2
Music Performance Ensemble		1
	Concert Choir, MUS 161, 162, 261, 262	
	Concert Band, MUS 159, 160, 259, 260	
	Jazz Band, MUS 163, 164, 263, 264	
	Guitar Ensemble, MUS 175, 176, 275, 276	
Fine Arts/Humanities Course		3
Life Science Course		4
Math Course****		4
Social/Behavioral Science Course		3
Total Semester Credits		**17**

Apply for Graduation Now

Spring Semester		**Semester Credits**
200 Level Private Applied Lessons		Elective Credits 2
Music Performance Ensemble		Elective Credit 1
	Concert Choir, MUS 161, 162, 261, 262	
	Concert Band, MUS 159, 160, 259, 260	
	Jazz Band, MUS 163, 164, 263, 264	
	Guitar Ensemble, MUS 175, 176, 275, 276	
Physical Science Course		4
Human Well-Being Course		2
Additional Course		3
	From Communications, Humanities or Behavioral Science	
Total Semester Credits		**12**

Total Program Credits	**63**
Total Semester Credits for Graduation	**64**
Total Elective Credits	**19**
Total Elective Credits for Graduation	**20**

You can earn the final credit in a number of ways including:

- Register for a 2nd ensemble. Many music majors participate in more than one ensemble every semester which would supply more than enough credits for graduation.
- Take a semester of 100 Level Private Applied Lessons on a secondary instrument (30 minute lessons/1 credit).

*Enrollment in ENG 101 is based on your English placement. A minimum grade of C is required in ENG 101 and ENG 102.

**MUS 101 recommended.

***Minimum of one course in Human Relations is required. In addition, one Third World/Non-Western Culture course is required.

****Enrollment in any math class is based on your math placement and requisite.

Philosophy Pre-Major

Associate in Arts Degree

swic.edu/philosophy

Department Chair: Carla Bills, ext. 7394
Email: Carla.Bills@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

Philosophy is at the core of a liberal arts education. Its study prepares students for a wide range of pursuits. The study of philosophy develops a student's ability to analyze, evaluate, and debate ideas. While a career in philosophy is confined largely to teaching, students of philosophy have gone on to become lawyers, managers, theologians, writers, artists, comedians, and talk show hosts.

Philosophy is the study of the significant questions in life. It probes into issues that range from those about who we are to those about the nature of reality, the meaning of the good life, the essence of truth, the idea of good government, the notion of God, and the requirements of good art.

Articulation Agreements

- SIU-Edwardsville – BS Philosophy

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Philosophy Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Philosophy should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer**.

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Philosophy department recommends the following general education courses for this major:
   - PHIL 150 Introduction to Philosophy
2. As you fulfill your degree requirements, it is **strongly recommended** by the Philosophy department that you take the following classes:
   - PHIL 151 Introductory Logic
   - PHIL 152 Ethics
   - PHIL 155 Non-Western Philosophy
   - PHIL 160 Intro to Phil of Religion
3. The additional courses recommended below may be applicable toward a baccalaureate Philosophy major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - PHIL 156 Biomedical Ethics
   - LIT 202 World Literature from Enlightenment
   - A foreign language
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in philosophy including:

- Teacher
- Lawyer
- Theologian
- Author/writer
- Researcher
- Mathematician
- Artist

Political Science Pre-Major

Associate in Arts Degree

swic.edu/political-science

Department Chair/Faculty: Carolyn Myers, Ph.D., ext. 5404
Email: Carolyn.Myers@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

Political scientists study the nature of power and the role of government, both in our own nation and in the ever-shrinking global arena. Political science majors can work in business and industry as labor relations managers, public relations specialists and lobbyists, or in government as agency directors, urban planners and the like. Many utilize their talents as writers, editors or journalists, or they may serve as directors of civic or charitable organizations. Many political scientists go into law, social work and other related fields.

Articulation Agreements

- McKendree University – BA Political Science
- SIU-Edwardsville – BS Political Science
- SIU-Carbondale – BS Political Science

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Political Science Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Political Science should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Political Science Major Panel recommends the following general education courses for this major:
   - POLS 150 Intro to American Government
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Political Science Major Panel that you take three of the following classes:
   - POLS 262 American Government (State & Local)
   - POLS 270 International Relations
   - POLS 240 Comparative Politics OR POLS 241 Comparative Politics Nonwest
   - POLS 280 Political Theory
3. The additional courses recommended below may be applicable toward a baccalaureate Political Science major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - HIST 180 U.S. History to 1865
   - HIST 181 U.S. History, 1865 to the Present
   - Other Political Science courses
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in political science/pre-law including:

- Labor relations manager
- Public relations specialist
- Lobbyist
- Agency director
- Urban planner
- Writer
- Editor
- Journalist
- Civic or charitable organization director
- Law
- Government
- Foreign service
- Analyst

Pre-Chiropractic Pre-Major

Associate in Arts Degree

swic.edu/pre-chiropractic

Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

Chiropractic is a health care discipline that emphasizes the healing of the body without the use of drugs or surgery. The practice of chiropractic focuses on the relationship between the structure of the spine and function of the nervous system, and how that relationship affects the preservation and restoration of health. Doctors of chiropractic work in cooperation with other health care practitioners when in the best interest of the patient.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Pre-Chiropractic Pre-Major

Students who plan to earn an Associate in Arts degree, transfer to a four-year college or university, and then continue on to a school of chiropractic should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution and professional school where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution.
2. As you fulfill your degree requirements, it is **strongly recommended** that you take the following classes:
   - BIOL 101 Principles of Biology I
   - BIOL 157 Human Anatomy & Physiology I
   - BIOL 158 Human Anatomy & Physiology II
   - CHEM 105 General Chemistry I
   - CHEM 106 General Chemistry II
   - CHEM 201 Organic Chemistry I
3. **Most** chiropractic schools will accept the following courses for credit towards meeting admission requirements:
   - MATH 112 College Algebra
   - MATH 191 Introduction to Statistics
   - PHYS 151 College Physics I
   - PHYS 152 College Physics II
   - CHEM 202 Organic Chemistry II
4. The **optional** courses listed below may be applicable toward admission to chiropractic schools. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - PSYC 151 General Psychology
   - BIOL 250 Microbiology
5. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
6. Apply for graduation by the date published in the college calendar.
7. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Pre-Law

Associate in Arts Degree

swic.edu/pre-law

The Association of American Law Schools believes that the effectiveness of pre-legal study cannot be advanced by prescribing courses of study or extracurricular activities. Instead, primary emphasis should be directed toward the development in pre-law students of basic skills and insights through education for comprehension and expression in words, for critical understanding of the human institutions and values with which law deals, and for creative power in thinking.

This is best achieved in fields of individual interests and abilities. In addition, law touches so many phases of human activity that there is scarcely a subject which is not of value to the law student and to the lawyer. A student is therefore advised to place as much emphasis on the liberal arts as his or her own program of undergraduate study will permit; and within the outlines of that program the following should also be noted:

- Pre-Law is not a major in that students cannot receive a degree in pre-law. Since virtually all law schools now require applicants to possess a bachelor's degree, students are advised to select a major in the academic area in which they would like to obtain a degree.

- The following subjects are common baccalaureate majors and minors among pre-law students: accounting, anthropology, economics, English, history, life or physical science, literature, paralegal studies, philosophy, political science, psychology, sociology and speech communication.

- The essential ability to think precisely and exactly is most likely to be acquired through courses in logic, mathematics, the natural sciences and philosophy.

- Courses in English composition and public speaking develop the power of clear and well-ordered expression. Courses in which students receive intensive faculty critiques of their writing skills are highly recommended. Preparation in composition is essential and preparation in public speaking is of great value.

- The fields of history (particularly English and American history), economics, political science, psychology, and sociology are important to an appreciation of human institutions and values and their relation to law.

- Courses in paralegal studies expose students to a broad range of legal topics, including civil procedure, criminal law, business law, and family law, which can help gain an understanding of how the legal system operaes. Additionally, courses in legal research, analysis and writing provide students with the practical skills essential for success in law school and the legal profession.

- An understanding of financial statements and of elementary accounting principles has become almost indispensable. In the changing face of the law office, knowledge of technology is imperative.

- There are opportunities in special types of practice for those who concentrate in particular fields, such as agriculture, business administration, biology, chemistry, engineering or physics, before entering law school.

- To practice law in the courts of any state, a person must be licensed, or admitted to its bar, under rules established by the state's Supreme Court. To qualify for the bar exam in most states, the applicant must complete at least three years of college and graduate from a law school approved by the American Bar Association. The Law School Admissions Test is generally required for admission to a college of law. It provides a standard measure of acquired reading comprehension and analytical, logical, and verbal reasoning skills that law schools can use as one of several factors in assessing applicants. The LSAT also requires a writing sample.

Psychology Pre-Major

Associate in Arts Degree

swic.edu/psychology

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The goal of the psychologist is to understand, explain, predict and control people's behavior. Those who major in psychology often go on to pursue graduate study in psychology, which leads to careers in teaching, research or counseling. For instance, many who study psychology become counselors, sometimes in educational or social welfare organizations, but also with employment agencies, industry and business, hospitals, and other organizations that employ or work with many people. Psychology as a minor is excellent for business majors, teachers, sociologists, and others whose careers revolve around their relationships with people.

Articulation Agreements

- Eastern Illinois University – BA Psychology
- McKendree University – BA Biopsychology
- McKendree University – BA Psychology

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:
- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:
- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Psychology Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Psychology should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Psychology Major Panel recommends the following general education courses for this major:
   - PSYC 151 General Psychology
   - MATH 107 General Education Statistics
     OR MATH 191 Introduction to Statistics
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Psychology Major Panel that you take the following classes:
   - PSYC 259 Clinical Psychology
   - PSYC 295 Social Psychology

   Also, take one of the following depending upon the area of study within Psychology that you wish to study:
   - PSYC 210 Life-Span Development
   - PSYC 250 Child Development
   - PSYC 251 Adolescent Development
   - PSYC 253 Adult Development and Aging

   Note: The IAI Panel recommends that students take no more than three psychology courses beyond General Psychology at the two-year institution.
3. The additional courses recommended below may be applicable toward a baccalaureate Psychology major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - MATH 213 Calculus for Business & Social Sciences **OR** MATH 113 Finite Math for Business & Social Sciences
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

Those who major in psychology can pursue a variety of careers, including:
- Academic psychologist (research and teaching at an institution of higher learning)
- Practicing clinical psychologist
- Counselor/therapist
- Industrial-organizational psychologist
- School psychologist
- Statistical consultant
- Human Resources
- Public Policy
- Law
- Marketing

Psychology as a minor is excellent for business majors, teachers, sociologists, and others whose careers revolve around their relationships with people.

Social Work Pre-Major

Associate in Arts Degree

swic.edu/social-work

Department Chair: Susan Holbrook, ext. 5198
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Wellness Advocate/Faculty: Ami Lilley-Plexico, MSW, LCSW ext. 5290
Dean: Kristen Ruppert, Ed.D., ext. 5013
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Social work is a profession devoted to helping people function optimally in their environment. Social workers help people by providing direct services to individuals, families, groups and communities, and by working to change or improve social conditions. This two-year transfer program leads to an Associate in Arts degree. The recommended curriculum is designed for students pursuing a baccalaureate degree in social work. Baccalaureate degree programs in social work prepare students for careers in public and private agencies such as child welfare, mental health, corrections, shelters, and many other workplaces.

Articulation Agreements

- McKendree University – BA Social Work

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Social Work Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in social work should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Social Sciences department recommends the following general education courses for this major:
   - MATH 107 General Education Statistics
     OR MATH 191 Introduction to Statistics
   - SOC 153 Introductory Sociology
   - BIOL 100 General Biology: Ecology, Evolution & Genetics
   - POLS 150 Introduction to American Government
   - PSYC 151 General Psychology
2. As you fulfill your degree requirements, it is **strongly recommended** by the Behavioral Sciences department that you take the following classes:
   - HMS 100 Introduction to Human Services
   - SOC 155 Introduction to Social Work
   - SOC 203 Social Problems
   - SOC 230 Race & Ethnicity in the U.S.
   - SOC 255 Sociology of the Family
3. The additional courses recommended below may be applicable toward a baccalaureate Social Work major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - ECON 201 Principles of Macroeconomics
   - PHIL 152 Ethics
   - SOC 265 Aging & Society
   - ANTH 150 Cultural Anthropology
   - LIT 214 Modern American Literature
   - LIT 215 Contemporary Multicultural American Literature
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

Bachelor's degree programs in social work prepare students for careers in public and private agencies such as:

- Child welfare
- Mental health
- Corrections
- Elder care
- Shelters and many other workplaces

Sociology Pre-Major

Associate in Arts Degree

swic.edu/sociology

Department Chair/Faculty: Carla Bills, ext. 7394
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Dean: Kristen Ruppert, Ed.D., ext. 5013
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Sociology is the study of human behavior within the context of society. It explores the impact of groups on individual behavior and how the actions of people affect society. This discipline covers everything from interactions in small groups to the structures of whole societies. Areas of focus include social change, race and ethnicity, inequality, gender, social problems, family life and crime. Understanding how society impacts behavior prepares the sociology major for a wide range of occupations dealing with people, analyzing social information and addressing social problems.

Articulation Agreements

- McKendree University – BA Sociology
- McKendree University - BA Sociology: Criminal Justice
- SIU-Carbondale - BA Sociology

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Arts Degree (0001) – Sociology Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Sociology should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Sociology Major Panel recommends the following general education courses for this major:
   - SOC 153 Introductory Sociology
   - ANTH 150 Cultural Anthropology
   - MATH 107 General Education Statistics
     OR MATH 113 Finite Math for Business & Social Sciences
     OR MATH 191 Introduction to Statistics
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Sociology Major Panel that you take the following classes:
   - SOC 203 Social Problems
   - SOC 255 Sociology of the Family
   - SOC 230 Race & Ethnicity in the United States
3. The additional courses recommended below may be applicable toward a baccalaureate Sociology major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - LIT 213 Early American Literature
   - LIT 214 Modern American Literature
   - LIT 215 Contemporary Mulitcultural American Literature
   - PHIL 152 Ethics
   - PSYC 151 General Psychology
   - PSYC 295 Social Psychology
   - Other Sociology courses
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

Sociology majors generally choose careers where they work with people. Their understanding of interpersonal relationships makes them candidates for a variety of careers including:

- Sociologist
- Community organizer
- Social services worker
- Community planner
- Public administrator
- Gerontologist
- Public health specialist
- Public opinion researcher
- Law enforcement
- Counselor
- Public relations specialist
- Social worker
- Criminologist
- Human resources specialist

Additionally, they may use their knowledge and skills in writing, editing, teaching and other communication fields.

Theatre Arts Pre-Major

Associate in Arts Degree

swic.edu/theatre

Department Chair: Julie Willis, ext 4975
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Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

Theatre is a subject that is a benefit to everyone, no matter what field he or she plans to enter. Even the research scientist, who spends most of his or her time in a laboratory, is expected to give papers and present seminars. Others who work in people-oriented fields will find a good background in theatre to be invaluable to success. Theatre majors are frequently employed in the broadcast media, and they often continue for further training in drama. Theatre and business as a combination may significantly enhance your chances for success in the business world.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Arts and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Arts with a SWIC academic advisor.
- The **Associate in Arts Degree Requirement Checklist** may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the white section in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Articulation Agreements

- Eastern Illinois University - BA Communication Studies

Associate in Arts Degree (0001) – Theatre Arts Pre-Major

Students who plan to earn an Associate in Arts degree and then transfer to a four-year college or university to major in Theatre Arts should follow the steps listed below. I**t is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Arts degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Theatre Arts Major Panel recommends the following general education courses for this major:
   - No specific General Education courses recommended.
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Theatre Arts Major Panel that you take the following courses:
   - THEA 256 Theatre Acting
   - COMM 200 Oral Interpretation
3. The additional courses recommended below may be applicable toward a baccalaureate Theatre Arts major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - THEA 120 Theatre Appreciation
   - LIT 125 Drama as Literature
   - LIT 214 Modern American Literature
   - LIT 251 Early British Literature
   - THEA 161, 162, 261, 262 (Production Lab)
   - MCOM 220 Voiceover: Vocal Production
   - MCOM 221 Voiceover: Characterization
4. Fulfill all other Associate in Arts degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

Theatre majors are frequently employed in areas such as:

- Acting
- Stage and lighting design
- Education
- Announcing
- Producing
- Directing

PROGRAMS THAT LEAD TO A

BACHELOR'S DEGREE

ASSOCIATE IN SCIENCE

and

ASSOCIATE IN ENGINEERING SCIENCE

Associate in Science

Program Code: 0002

Description:
These requirements are for students who are majoring in science or mathematics and who plan to transfer to a four-year institution to complete a baccalaureate degree. The curriculum guides that follow serve as a general guide to the selection of courses toward fulfilling degree requirements specific to your intended major at a four-year college or university. Since requirements vary at colleges and universities, it is important to select your courses with the assistance of an academic advisor.

Admission:
Students wishing to pursue this degree may do so prior to being formally admitted to the program. However, all students must fulfill the admissions requirements, noted under the *Admissions Information* section of the catalog, prior to graduation.

Terms:
Students have six years to complete the requirements for the program they have declared. If the requirements are not completed within six years, students will be required to meet degree requirements for the program in effect at that time. However, students not enrolled for three consecutive semesters (not including summer) must meet the curriculum requirements in effect at the time of re-enrollment. Students can always choose to complete the current curriculum degree requirements.

Total Hours:
A minimum of 64 semester credits is required for this degree.

Residency:
Fifteen of the last 24 credits or an accumulation of 36 credits must be completed at SWIC. Active duty U.S. armed forces and reserve service members are only required to earn 15 credits at SWIC.

GPA:
A minimum cumulative GPA of 2.00 is required for a degree.

English and Math Requirements for Degrees:
All students pursuing transfer degrees (AA, AS, AFA, AES) are encouraged to enroll in and complete their English 101 and Math requirement(s) (see checklist for options) within their first 24-30 semester credits of enrollment.

Transfer Resources:
Please view additional transfer resources at swic.edu/articulation.

SWIC Articulation Agreements:
SWIC has developed a number of Articulation Agreements with four-year universities to allow for seamless transfer into specific majors. These articulations list recommended coursework to prepare SWIC graduates for entry at the junior level. Please visit swic.edu/articulation to learn more about Articulation Agreements. Most colleges require a grade of "C" or better in a course for transferability of coursework.

Human Relations:
One of the following courses must be completed. The course that is selected may also be applied toward the Humanities or Social/Behavioral Science General Education requirement as applicable. For reference, these courses are listed in **white** print in the general education areas.

___ Humanities & Fine Arts: ART 110 HIST 230, LIT 117, LIT 215, LIT 216
___ Social Science & Behavioral Science: : SOC 220, SOC 230

Non-Western Culture:
One of the following courses must be completed. The course that is selected may also be applied toward the Humanities or Social/Behavioral Science General Education requirement as applicable. For reference, these courses are **highlighted** in the general education areas.

___ Humanities & Fine Arts: ART 103, HIST 286, LIT 205, MUS 110, PHIL 155
___ Social Science & Behavioral Science: ANTH 150, GEOG 202, HIST 101, HIST 102, HIST 114, HIST 115, HIST 117, HIST 118, POLS 241, SOC 220

College Orientation:
Beginning students are encouraged to enroll in ORIE 101 College Orientation Seminar or ORIE 110 College Success Strategies. For information regarding this course, see the *Course Description Guide* at the back of the catalog.

Apply for Graduation:
Students must submit an application to Enrollment Services. Applications can be submitted through eSTORM or through Enrollment Services. To be considered for a specific term, applications must be received by the following dates:

Term	Application Date
Fall/December	Oct. 15
Spring/May	Feb. 15
Summer/July	June 15

Associate in Science

Degree Requirements Checklist

Students MUST take one Human Relations Course AND one Non-Western Culture Course

Human Relations Course:
designed specifically to examine aspects of human diversity within the US

Non-Western Course:
designed specifically to examine aspects of human diversity from a non-Western perspective

*Included in IAI majors codes. Check: https://itransfer.org/courses/descriptors.php

IAI General Education Core Curriculum (IAI GECC): Successful completion of the IAI GECC (12-13 courses / 37-41 credits) at SWIC will guarantee participating colleges and universities agree to accept the IAI GECC in lieu of their own comparable lower-division general education requirements.

COMMUNICATIONS (total of 3 courses / 9 semester credits) – A minimum grade of "C" is required for ENG 101 & 102

____ ENG 101 ____ ENG 102 ____ COMM 151

HUMANITIES AND FINE ARTS
(total of 2 courses / 6 semester credits: at least 1 course from humanities and at least 1 course from fine arts)
Humanities (at least 1 course / 3 semester credits)

____ FREN 202	____ LIT 117	____ LIT 202	____ LIT 251*	____ PHIL 151
____ FILM 225	____ LIT 120	____ LIT 205	____ LIT 252*	____ PHIL 152
____ GERM 202	____ LIT 125	____ LIT 213*	____ LIT 290	____ PHIL 155
____ HIST 230	____ LIT 133	____ LIT 214*	____ LIT 291	____ PHIL 160
____ HIST 286	____ LIT 134	____ LIT 215	____ LIT 293/ED 293	____ SPAN 202
____ LIT 113	____ LIT 201	____ LIT 216	____ PHIL 150	

Fine Arts (at least 1 course / 3 semester credits)

____ ART 101	____ ART 105	____ FILM 115	____ MUS 101	____ THEA 120
____ ART 103	____ ART 106	____ FILM 215	____ MUS 102	
____ ART 104	____ ART 110	____ FILM 225	____ MUS 110	

SOCIAL SCIENCES AND BEHAVIORAL SCIENCES
(total of 2 courses / 6 semester credits: 1 course each from at least 2 disciplines below)
Social Sciences (at least 1 course / 3 semester credits)

____ ECON 115	____ GEOG 202	____ HIST 115	____ HIST 181*	____ POLS 262*
____ ECON 201	____ HIST 101*	____ HIST 117	____ POLS 150*	____ POLS 270*
____ ECON 202	____ HIST 102*	____ HIST 118	____ POLS 240*	
____ GEOG 152	____ HIST 114	____ HIST 180*	____ POLS 241*	

Behavioral Sciences (at least 1 course / 3 semester credits)

____ ANTH 150	____ PSYC 151*	____ PSYC 251*	____ SOC 153*	____ SOC 230*
____ ANTH 160	____ PSYC 210*	____ PSYC 253*	____ SOC 203*	____ SOC 255*
____ ANTH 250	____ PSYC 250*	____ PSYC 295*	____ SOC 220*	

MATHEMATICS (total of 2 courses / 6-8 semester credits)

____ MATH 191 or BUS 205*	____ MATH 203*	____ MATH 205*
____ MATH 113	____ MATH 204*	____ MATH 213

PHYSICAL AND LIFE SCIENCES
(total of 3 courses: 1 Life Science; 1 Physical Science; with at least 1 of those being a laboratory course 10-11 semester credits)

Life Science (1 course / total of 3-4 semester credits)	**Physical Science** (1 course / total of 3-4 semester credits)		
____ BIOL 100	____ ATY 101	____ ES 102	____ PHYS 151
____ BIOL 101*	____ CHEM 101	____ ES 114	____ PHYS 204*
____ BIOL 106	____ CHEM 105*	____ ES 180	____ SCIE 101
	____ ES 101	____ ES 250	____ SCIE 110

Additional Physical and Life Sciences (total 3-4 semester credits)
____ Additional course from either Physical or Life Sciences

____ BIOL 102	____ BIOL 151	____ CHEM 201	____ PHYS 152	____ PHYS 206
____ BIOL 106	____ CHEM 106	____ CHEM 202	____ PHYS 205	

HUMAN WELL-BEING (total of 2 semester credits) The courses below are not included in the IAI General Education Core Curriculum.

____ HES 130	____ HES 152	____ HES 156	____ HES 172	____ HRO 101
____ HES 131	____ HES 154	____ HES 158	____ HES 180	____ HRO 150
____ HES 151	____ HES 155	____ HES 160		

Additional Transfer Major/Minor Courses and Electives (total of 20-27 semester credits)
Applicable major/minor/elective courses are identified in the Course Description Guide as "T" type classes. "C" type courses included in 2+2 Articulation Agreements of the A.A.S. Programs can be included as electives for the A.S. Since requirements vary from one institution to another, all new degree seeking students must meet regularly with an academic advisor as well as verify information with the transfer institution. Electives should be selected from the following disciplines:

AGRI	CHEM	ES	MATH	PHYS
ATY	ENGR	GEOG	MSC	
BIOL	ED	HES	ORIE	

Other (as identified in 2+2 agreements)
GECC: Students seeking to complete the GECC should take one additional Humanities and Fine Arts and one additional Social and Behavioral Science course (6 total credit hours). These credits can be applied to the 26-27 credits of additional transfer major/minor and electives.

Biology Pre-Major

Associate in Science Degree

swic.edu/biology

Department Chair/Faculty: Jessica Baack, ext. 5605
Email: Jessica.Baack@swic.edu
Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

Biology pre-majors may work toward degrees in organismal biology such as botany, microbiology or zoology; environmental degrees such as ecology, forestry or wildlife biology; professional areas such as pre-dentistry, pre-pharmacy, pre-medicine or pre-veterinary; or education degrees such as elementary, secondary or college science teaching.

Articulation Agreements

- Eastern Illinois University - BS Biological Services
- SIU-Edwardsville – BS Biology-Ecology, Evolution & Environment
- SIU-Edwardsville – BS Biology-Genetics & Cellular
- SIU-Edwardsville – BS Biology-Integrative Studies
- SIU-Edwardsville – BS Biology-Medical Sciences

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Science and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Science with a SWIC academic advisor.
- The **Associate in Science Degree Requirement Checklist** in the front of this section may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.
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Please view additional transfer resources at swic.edu/articulation.

Associate in Science Degree (0002) – Biology Pre-Major

Students who plan to earn an Associate in Science degree and then transfer to a four-year college or university to major in Biology should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Science degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Biological Sciences Major Panel recommends the following general education courses for this major:
   - MATH 203 Analytic Geometry & Calculus I
   - BIOL 101 Principles of Biology I
   - CHEM 105 General Chemistry I
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Biological Sciences Major Panel that you take the following classes:
   - BIOL 102 Principles of Biology II
   - CHEM 106 General Chemistry II
   - CHEM 201 Organic Chemistry I
   - CHEM 202 Organic Chemistry II
3. The additional courses recommended below may be applicable toward a baccalaureate Biology major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - BIOL 108 General Ecology
   - BIOL 151 Fundamental Botany
   - BIOL 270 Genetics
   - PHYS 151 College Physics I
     OR PHYS 204 Physics-Mechanics
   - PHYS 152 College Physics II
     OR PHYS 205 Physics-Heat, Electricity & Magnetism
   - MATH 191 Introduction to Statistics
4. Fulfill all other Associate in Science degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in biology including:

- Aquatic biologist
- Biomedical scientist
- Ecologist
- Fisheries biologist
- Forensic scientist
- Geneticist
- Infection control specialist
- Laboratory technician
- Marine biologist
- Microbiologist
- Mortician
- Physiologist
- Public health specialist
- Teacher
- Veterinarian
- Wildlife biologist

Chemistry Pre-Major

Associate in Science Degree

swic.edu/chemistry

Department Chair: Mitch Robertson, ext. 5610
Email: Mitchell.Robertson@swic.edu
Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

Chemistry provides the basis for medicine, biomedical technology, ceramics, polymers, metallurgy, environmental and ecological sciences and many other fields. Students may pursue one of these fields or may choose a special interest in a specific area of chemistry such as analytical chemistry, biochemistry, organic chemistry, physical chemistry, colloid and surface chemistry, polymer chemistry or biology.

Articulation Agreements

- SIU-Edwardsville – BS Biochemistry
- SIU-Edwardsville – BS Biochemistry ACS Certified
- SIU-Edwardsville – BS Chemistry
- SIU-Edwardsville – BS Chemistry ACS Certified
- SIU-Edwardsville – BS Chemistry: Medical Science

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Science and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Science with a SWIC academic advisor.
- The **Associate in Science Degree Requirement Checklist** in the front of this section may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Science Degree (0002) – Chemistry Pre-Major

Students who plan to earn an Associate in Science degree and then transfer to a four-year college or university to major in Chemistry should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Science degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Chemistry Major Panel recommends the following general education courses for this major:
   - MATH 203 Analytic Geometry & Calculus I
   - MATH 204 Analytic Geometry & Calculus II
   - PHYS 204 Physics-Mechanics
   - PHYS 205 Physics-Heat, Electricity & Magnetism
   - BIOL 101 Principles of Biology I
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Chemistry Major Panel that you take the following classes:
   - CHEM 105 General Chemistry I
   - CHEM 106 General Chemistry II
   - CHEM 201 Organic Chemistry I
   - CHEM 202 Organic Chemistry II
3. The additional courses recommended below may be applicable toward a baccalaureate Chemistry major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - BIOL 102 Principles of Biology II
   - MATH 191 Introduction to Statistics
   - PHYS 206 Physics-Light & Modern Physics
   - MATH 205 Analytic Geometry & Calculus III
4. Fulfill all other Associate in Science degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in chemistry including:

- Pharmacologist
- Biochemist
- Pharmacist
- Teacher
- Chemical engineer
- Toxicologist
- Quality control specialist
- Chemical technician
- Crime lab analyst
- Product tester
- Forensic chemist
- Analytical chemist
- Water purification chemist
- Pharmaceutical sales person

Computer Science Pre-Major

Associate in Science Degree

swic.edu/computer-science

(August-May);
Department Chair: Keven Hansen, ext 5661
Assistant Chair: Jaime Manche, ext 5795

(June-July);
Department Chair: Jaime Manche, ext 5795
Assistant Chair: Keven Hansen, ext 5661

Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

This two-year program is designed for students who plan to transfer to a senior institution to complete a four-year degree program with a technical/mathematical emphasis. A four-year degree in computer science prepares students to work as scientific and business application programmers, computer systems analysts, operation research analysts and numerical analysts. Career opportunities are available in industry, business, government and education.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:
- Transfer requirements vary by receiving institution.
- Plan your Associate in Science and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

If you DON'T KNOW where you are transferring:
- Plan your Associate in Science with a SWIC academic advisor.
- The **Associate in Science Degree Requirement Checklist** in the front of this section may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Articulation Agreements
- SIU-Carbondale – BS Information Technology

Associate in Science Degree (0002) – Computer Science Pre-Major

Students who plan to earn an Associate in Science degree and then transfer to a four-year college or university to major in Computer Science should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Science degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Computer Science Major Panel recommends the following general education courses for this major:
   - MATH 203 Analytic Geometry & Calculus I
     OR MATH 213 Calculus for Business & Social Sciences
     OR MATH 113 Finite Math for Business & Social Sciences
   - PHYS 204 Physics-Mechanics
   - ECON 115 Introduction to Economics
     OR ECON 201 Principles of Macroeconomics and
     ECON 202 Principles of Microeconomics
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Computer Science Major Panel that you take the following classes:
   - MATH 171 Computer Science I – Java
   - MATH 271 Computer Science II – Java
3. The additional courses recommended below may be applicable toward a baccalaureate Computer Science major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - MATH 292 Linear Algebra
   - MATH 191 Introduction to Statistics
4. Fulfill all other Associate in Science degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in computer science including:
- Web master
- Database administrator
- Computer network specialist
- Computer programmer
- Computer software engineer
- Computer systems analyst
- Information systems manager
- Teacher/professor
- Internet/intranet programmer

Earth Science Pre-Major

Associate in Science Degree

swic.edu/earth-science

Department Chair: Mitch Robertson, ext. 5610
Email: Mitchell.Robertson@swic.edu
Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

Earth Science is the general name for all the sciences that seek to understand the Earth and its neighbors in space. Geology, which literally means the study of the Earth, examines the origin and development of the solid Earth, as well as the processes that operate beneath and upon its surface. Meteorology involves the study of our atmosphere, while oceanography deals with the dynamics of the oceans. The study of the Earth is not confined to investigating the interactions and interrelationships on our planet alone, but also attempts to relate the earth to the larger universe using the science of astronomy.

Articulation Agreements

Eastern Illinois University:
- BS Geography: Environmental/Physical
- BS Geography: Human Geography
- BS Geology

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:
- Transfer requirements vary by receiving institution.
- Plan your Associate in Science and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

If you DON'T KNOW where you are transferring:
- Plan your Associate in Science with a SWIC academic advisor.
- The **Associate in Science Degree Requirement Checklist** in the front of this section may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Science Degree (0002) – Earth Science Pre-Major

Students who plan to earn an Associate in Science degree and then transfer to a four-year college or university to major in Geology, Meteorology, Astronomy, or Oceanography should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Science degree listed in the front of this section. General Education course preferences may vary by transfer institution. For students who do not know where they plan to transfer, the Physical Sciences department recommends the following general education courses for these majors:
   - MATH 203 Analytic Geometry & Calculus I
   - SOC 153 Introductory Sociology
   - GEOG 152 World Regional Geography
   - CHEM 105 General Chemistry I
2. As you fulfill your degree requirements, it is strongly recommended by the Physical Sciences department that you take the following classes for the listed majors:

Geology Major
ES 102 Physical Geology
ES 180 Historical Geology
CHEM 106 General Chemistry II

Meteorology Major
ES 250 Introduction to Meteorology
CHEM 106 General Chemistry II

Astronomy Major
ATY 101 Astronomy
CHEM 106 General Chemistry II

Oceanography Major
ES 102 Physical Geology
CHEM 106 General Chemistry II

3. The additional courses recommended on the next page may be applicable toward the indicated majors. Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level. To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.

Geology or Oceanography Major
PHYS 151 College Physics I **OR** PHYS 204 Physics-Mechanics
PHYS 152 College Physics II **OR** PHYS 205 Physics-Heat, Electricity & Magnetism

Astronomy or Meteorology Major
MATH 204 Analytic Geometry & Calculus II
PHYS 204 Physics-Mechanics
PHYS 205 Physics-Heat, Electricity & Magnetism

4. Fulfill all other Associate in Science degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 transferable credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. Many transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in geology, astronomy, meteorology or oceanography including:

- Geologist
- Oceanographer
- Mining engineer
- Meteorologist
- Teacher
- Astronomer
- Economic geologist
- Paleontologist
- Park naturalist
- Hydrologist
- Solar energy engineer
- Seismologist
- Agricultural scientist
- Environmental engineer
- Soil scientist
- Forest ranger
- Volcanologist

Mathematics Pre-Major

Associate in Science Degree

swic.edu/math

(August-May);
Department Chair: Keven Hansen, ext 5661
Assistant Chair: Jaime Manche, ext 5795

(June-July);
Department Chair: Jaime Manche, ext 5795
Assistant Chair: Keven Hansen, ext 5661

Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

As society has become more technical, many professions are requiring additional mathematical skills. Some of the fastest growing and highest paying fields require individuals with sophisticated mathematical competence, as well as other communication skills. A bachelor's degree in mathematics is a highly marketable degree in a wide variety of professions.

Articulation Agreements

- EIU – BA Mathematics

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:
- Transfer requirements vary by receiving institution.
- Plan your Associate in Science and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

If you DON'T KNOW where you are transferring:
- Plan your Associate in Science with a SWIC academic advisor.
- The **Associate in Science Degree Requirement Checklist** in the front of this section may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Science Degree (0002) – Mathematics Pre-Major

Students who plan to earn an Associate in Science degree and then transfer to a four-year college or university to major in Mathematics should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Science degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Mathematics Major Panel recommends the following general education courses for this major:
   - MATH 203 Analytic Geometry & Calculus I
   - PHYS 204 Physics-Mechanics
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Mathematics Major Panel that you take the following classes:
   - MATH 204 Analytic Geometry & Calculus II
   - MATH 205 Analytic Geometry & Calculus III
   - MATH 292 Linear Algebra
   - MATH 290 Differential Equations
3. The additional courses recommended below may be applicable toward a baccalaureate Mathematics major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - MATH 191 Introduction to Statistics
     OR MATH 171 Computer Science I – JAVA
     OR MATH 210 Computer Programming for Engineers
   - PHYS 205 Physics-Heat, Electricity & Magnetism
4. Fulfill all other Associate in Science degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in math including:

- Statistician
- Actuary
- Operations research analyst
- Engineer (civil, electrical, mechanical, etc.)
- Teacher
- Financial analyst
- Systems consultant
- Research data analyst

Physics Pre-Major

Associate in Science Degree

swic.edu/physics

Department Chair: Mitch Robertson, ext. 5610
Email: Mitchell.Robertson@swic.edu
Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

Physics seeks to understand the very basic concepts of force, energy, mass and charge. It is a broad and deep subject split into theoretical and experimental branches. Theoretical physics deals with the inquiry and formulation of new theories while experimental physics tests and analyzes these or previously existing theories. Physics relies extensively on sophisticated mathematics to provide its framework of study. A degree in physics can lead to careers from engineering to space research. Nuclear power, lasers and solid-state electronics are examples of technological advances that have come about through the study of physics.

Articulation Agreements

- SIUE – BS Physics-Astronomy
- SIUE – BS Physics-Biomedical Physics
- SIUE – BS Physics-Photonics
- SIUE – BS Physics-Laser Physics

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Science and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Science with a SWIC academic advisor.
- The **Associate in Science Degree Requirement Checklist** in the front of this section may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Science Degree (0002) – Physics Pre-Major

Students who plan to earn an Associate in Science degree and then transfer to a four-year college or university to major in Physics should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Science degree listed in the front of this section. General Education course **preferences** may vary by transfer institution. For students who do not know where they plan to transfer, the Illinois Articulation Initiative (IAI) Physics Major Panel recommends the following general education courses for this major:
   - MATH 203 Analytic Geometry & Calculus I
   - MATH 204 Analytic Geometry & Calculus II
   - CHEM 105 General Chemistry I
2. As you fulfill your degree requirements, it is **strongly recommended** by the IAI Physics Major Panel that you take the following classes:
   - PHYS 204 Physics-Mechanics
   - PHYS 205 Physics-Heat, Electricity & Magnetism
   - PHYS 206 Physics-Light & Modern Physics
3. The additional courses recommended below may be applicable toward a baccalaureate Physics major. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - MATH 205 Analytic Geometry & Calculus III
   - MATH 290 Differential Equations
   - MATH 292 Linear Algebra
   - CHEM 106 General Chemistry II
4. Fulfill all other Associate in Science degree requirements listed in the front of this section.
5. Apply for graduation by the date published in the college calendar.
6. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Career Opportunities

A variety of careers are open to students who graduate with a bachelor's degree in physics including:

- Nuclear engineer
- Atomic physicist
- Medical physicist
- Aerospace engineer
- Civil engineer
- Geologist
- Architect
- Audio engineer
- Electrical engineer
- Teacher

Pre-Dentistry Pre-Major

Associate in Science Degree

swic.edu/pre-dentistry

Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

Dentists focus on maintaining oral health through such preventive and repair practices as extracting, filling, cleaning or replacing teeth; performing corrective work, such as straightening teeth; treating diseased tissue of the gums; performing surgical operations on the jaw or mouth; and making and fitting false teeth. To be a dentist, one must attend dental school after graduating from college. Most dental schools require applicants to pass the DAT, or Dental Admissions Test, which tests a student's ability to succeeded in dental school.

Individuals interested in pursuing dentistry as a career should also note the importance of manual dexterity and scientific ability. Skilled, steady hands are necessary, as well as good space and shape judgment and artistic and creative ability. Good vision is required because of the detailed work. Individuals should also possess a love of learning since advances in dental research require dentists to continue their education throughout their careers.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Science and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Science with a SWIC academic advisor.
- The **Associate in Science Degree Requirement Checklist** in the front of this section may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Science Degree (0002) – Pre-Dentistry Pre-Major

Students who plan to earn an Associate in Science degree, transfer to a four-year college or university, and then continue on to a school of dentistry should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Science degree listed in the front of this section. General Education course **preferences** may vary by transfer institution.
2. As you fulfill your degree requirements, it is **strongly recommended** that you take the following classes:
   - BIOL 101 Principles of Biology I
   - BIOL 102 Principles of Biology II
   - CHEM 105 General Chemistry I
   - CHEM 106 General Chemistry II
   - CHEM 201 Organic Chemistry I
   - CHEM 202 Organic Chemistry II
3. **Most** dental schools will accept the following courses for credit towards meeting admission requirements:
   - MATH 191 Introduction to Statistics
   - PHYS 151 College Physics I
   - **OR** PHYS 204 Physics-Mechanics
   - PHYS 152 College Physics II
   - **OR** PHYS 205 Physics-Heat, Elec, & Magnetism
4. The **optional** courses listed below may be applicable toward admission to dental school. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - PSYC 151 General Psychology
   - BIOL 157 Human Anatomy & Physiology I
   - BIOL 158 Human Anatomy & Physiology II
   - BIOL 270 Genetics
   - MATH 203 Analytic Geometry & Calculus I
5. Fulfill all other Associate in Science degree requirements listed in the front of this section.
6. Apply for graduation by the date published in the college calendar.
7. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Pre-Medicine Pre-Major

Associate in Science Degree

swic.edu/pre-med

Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

A physician's responsibilities cover a wide range of functions in health maintenance, including both acute care and preventive care approaches involving substantial patient education. These responsibilities include diagnosing disease, supervising the care of patients, and prescribing and implementing treatment.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Science and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Science with a SWIC academic advisor.
- The **Associate in Science Degree Requirement Checklist** in the front of this section may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Science Degree (0002) – Pre-Medicine Pre-Major

Students who plan to earn an Associate in Science degree, transfer to a four-year college or university, and then continue on to a school of medicine should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Science degree listed in the front of this section. General Education course **preferences** may vary by transfer institution.
2. As you fulfill your degree requirements, it is **strongly recommended** that you take the following classes:
   - BIOL 101 Principles of Biology I
   - BIOL 102 Principles of Biology II
   - CHEM 105 General Chemistry I
   - CHEM 106 General Chemistry II
   - CHEM 201 Organic Chemistry I
   - CHEM 202 Organic Chemistry II
3. **Most** medical schools will accept the following courses for credit towards meeting admission requirements:
   - MATH 191 Introduction to Statistics
   - PHYS 151 College Physics I
   - **OR** PHYS 204 Physics-Mechanics
   - PHYS 152 College Physics II
   - **OR** PHYS 205 Physics-Heat, Electricity & Magnetism
4. The **optional** courses listed below may be applicable toward admission to medical schools. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - PSYC 151 General Psychology
   - BIOL 157 Human Anatomy & Physiology I
   - BIOL 158 Human Anatomy & Physiology II
   - BIOL 270 Genetics
   - MATH 203 Analytic Geometry & Calculus I
5. Fulfill all other Associate in Science degree requirements listed in the front of this section.
6. Apply for graduation by the date published in the college calendar.
7. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Pre-Pharmacy Pre-Major

Associate in Science Degree

swic.edu/pre-pharmacy

Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

Pharmacists distribute prescription drugs to individuals and advise patients and physicians on the selection, dosages, interactions and side effects of medications. Pharmacists monitor the health of patients to ensure the safe and effective use of medication. They also advise patients about general health topics such as diet, exercise and stress management. They could be involved in research for pharmaceutical manufacturers, developing new drugs and testing their side effects, or they could work in marketing, sales, or carrying out cost-benefit analysis on certain drugs. Other pharmacists work for the government or public health care services.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Science and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Science with a SWIC academic advisor.
- The **Associate in Science Degree Requirement Checklist** in the front of this section may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Science Degree (0002) – Pre-Pharmacy Pre-Major

Students who plan to earn an Associate in Science degree, transfer to a four-year college or university, and then continue on to a school of pharmacy should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution and professional school where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Science degree listed in the front of this section. General Education course **preferences** may vary by transfer institution.
2. As you fulfill your degree requirements, it is **strongly recommended** that you take the following classes:
   - BIOL 101 Principles of Biology I
   - BIOL 102 Principles of Biology II
   - CHEM 105 General Chemistry I
   - CHEM 106 General Chemistry II
   - CHEM 201 Organic Chemistry I
   - CHEM 202 Organic Chemistry II
3. **Most** pharmacy schools will accept the following courses for credit towards meeting admission requirements:
   - PHYS 151 College Physics I
   - **OR** PHYS 204 Physics-Mechanics
   - PHYS 152 College Physics II
   - **OR** PHYS 205 Physics-Heat, Electricity & Magnetism
   - BIOL 157 Human Anatomy & Physiology I
   - BIOL 158 Human Anatomy & Physiology II
   - MATH 191 Introduction to Statistics
   - MATH 203 Analytic Geometry & Calculus I
4. The **optional** courses listed below may be applicable toward admission to pharmacy schools. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - ECON 201 Principles of Macroeconomics **OR** other ECON class
   - BIOL 151 Fundamental Botany
5. Fulfill all other Associate in Science degree requirements listed in the front of this section.
6. Apply for graduation by the date published in the college calendar.
7. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Pre-Veterinary Medicine Pre-Major

Associate in Science Degree

swic.edu/pre-vet

Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

A veterinarian's responsibilities cover a wide range of functions in animal health maintenance, including both acute care and preventive care approaches. These responsibilities include diagnosing disease, supervising the care of animals, and prescribing and implementing treatment.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Science and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Science with a SWIC academic advisor.
- The **Associate in Science Degree Requirement Checklist** in the front of this section may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Science Degree (0002) – Pre-Veterinary Medicine Pre-Major

Students who plan to earn an Associate in Science degree, transfer to a four-year college or university, and then continue on to a school of veterinary medicine should follow the steps listed below. **It is strongly recommended that you confer with a SWIC academic advisor prior to enrolling each semester and familiarize yourself with the specific requirements of the four-year institution where you plan to transfer.**

1. Fulfill the General Education and other institutional requirements for the Associate in Science degree listed in the front of this section. General Education course **preferences** may vary by transfer institution.
2. As you fulfill your degree requirements, it is **strongly recommended** that you take the following classes:
   - AGRI 111 Animal Science
   - BIOL 101 Principles of Biology I
   - BIOL 102 Principles of Biology II
   - CHEM 105 General Chemistry I
   - CHEM 106 General Chemistry II
   - CHEM 201 Organic Chemistry I
   - CHEM 202 Organic Chemistry II
3. **Most** veterinary schools will accept the following classes for credit towards meeting admission requirements
   - MATH 191 Introduction to Statistics
   - PHYS 151 College Physics I
   - **OR** PHYS 204 Physics-Mechanics
   - PHYS 152 College Physics II
   - **OR** PHYS 205 Introduction to Statistics
4. The **optional** courses listed below may be applicable toward admission to veterinary schools. **Please keep in mind that most transfer institutions limit the number of semester credits taken within a student's major field of study at the community college level.** To ensure the acceptance of such courses toward your intended major, check with the four-year institution where you are transferring or a SWIC academic advisor regarding their applicability.
   - BIOL 157 Human Anatomy & Physiology I
   - BIOL 158 Human Anatomy & Physiology II
   - BIOL 270 Genetics
   - MATH 203 Analytic Geometry & Calculus I
5. Fulfill all other Associate in Science degree requirements listed in the front of this section.
6. Apply for graduation by the date published in the college calendar.
7. Earn at least 64 **transferable** credits with a minimum cumulative grade point average of 2.00 to graduate from SWIC. **Many** transfer institutions require a higher GPA for admission to the institution and/or specific majors.

Note: Enrollment in many transfer classes is based on your fulfillment of course requisites and/or your placement in Math and English classes.

Associate in Engineering Science

Program Code: AES1

Description:
An Associate in Engineering Science (AES) degree is an award for the satisfactory completion of a prescribed curriculum intended to transfer to baccalaureate degree programs in the area of engineering. The engineering subplans that follow serve as a general guide to the selection of courses toward fulfilling degree requirements specific to your intended engineering major at a four-year college or university. Because requirements vary at colleges and universities, it is important to select your courses with the assistance of the program coordinator and an academic advisor.

IMPORTANT NOTE TO STUDENTS: The Illinois Articulation Initiative (IAI) Engineering Major Panel recommends students planning to pursue an engineering major upon transfer should complete the Associate in Engineering Science degree *instead* of the Associate in Arts or Associate in Science degree. The AES degree requires less general education coursework and is the best option for students seeking a bachelor's degree in Engineering upon transfer.

Program Outcomes:
Upon completion of the AES degree, students will be able to:

1. Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. Apply visual and spatial reasoning to identify, formulate, and solve engineering problems.
3. Utilize the engineering design process to identify, formulate, and solve engineering problems.
4. Effectively participate and collaborate on an engineering team to determine goals, plan tasks, and meet project objectives.
5. Acquire and apply new knowledge as needed, using appropriate learning strategies.

Admission:
Admission into the Associate in Engineering Science requires math placement into or above MATH 203: Analytic Geometry & Calculus I. Students wishing to pursue requirements of this degree may do so prior to being formally admitted to the program as long as they meet the pre-requisites of the course. However, all students must fulfill the admissions requirements, noted under the *Admissions Information* section of the catalog, prior to graduation. High school seniors are encouraged to have their math and English placement assessed in the fall of their senior year.

Terms:
Students have six years to complete the requirements for the program they have declared. If the requirements are not completed within six years, students will be required to meet degree requirements for the program in effect at that time. However, students not enrolled for three consecutive semesters (not including summer) must meet the curriculum requirements in effect at the time of re-enrollment. Students can always choose to complete the current curriculum degree requirements.

Total Hours:
A minimum of 60 semester credits is required for this degree.

GPA:
A minimum cumulative GPA of 2.00 is required for a degree.

Residency:
Fifteen of the last 24 credits or an accumulation of 36 credits must be completed at SWIC. Active duty U.S. armed forces and reserve service members are only required to earn 15 credits at SWIC.

Human Relations:
One of the following courses must be completed. The course that is selected may also be applied toward the Humanities or Social/Behavioral Science General Education requirement as applicable. For reference, these courses are listed in **white** print in the general education areas.

___ Humanities & Fine Arts: ART 110 HIST 230, LIT 117, LIT 215, LIT 216
___ Social Science & Behavioral Science: SOC 220, SOC 230

Non-Western Culture:
One of the following courses must be completed. The course that is selected may also be applied toward the Humanities or Social/Behavioral Science General Education requirement as applicable. For reference, these courses are **highlighted** in the general education areas.

___ Humanities & Fine Arts: ART 103, HIST 286, LIT 205, MUS 110, PHIL 155
___ Social Science & Behavioral Science: ANTH 150, GEOG 202, HIST 101, HIST 102, HIST 114, HIST 115, HIST 117, HIST 118, POLS 241

Apply for Graduation:
Students must submit an application to Enrollment Services. Applications can be submitted through eSTORM or through Enrollment Services. To be considered for a specific term, applications must be received by the following dates:

Term	Application Date
Fall/December	Oct. 15
Spring/May	Feb. 15
Summer/July	June 15

SWIC Articulation Agreements:
SWIC has developed a number of 2+2 Agreements with four-year universities to allow for seamless transfer into specific majors. Please visit swic.edu/articulation to learn more about 2+2 Agreements. Most colleges and universities require a minimum grade of "C" or better in a course for transferability of coursework.

Important Transfer Information

Read the Course Description Guide (yellow section of the catalog) for more information on course content and requisites, which may be necessary for some courses.

If you KNOW where you are transferring:

- Transfer requirements vary by receiving institution.
- Plan your Associate in Science and transfer requirements with a SWIC academic advisor and use the transfer guide of the four-year institution you plan to attend.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

If you DON'T KNOW where you are transferring:

- Plan your Associate in Science with a SWIC academic advisor.
- The **Associate in Science Degree Requirement Checklist** in the front of this section may be used as a GENERAL GUIDE; transfer requirements vary by receiving institution.
- Refer to *Recommended Steps and Timeline to Transfer to Four-Year Institutions* in the front of this catalog.

Please view additional transfer resources at swic.edu/articulation.

Associate in Engineering Science

Degree Requirements Checklist

swic.edu/engineering

Coordinator/Faculty: Dr. Mark Patty, ext. 5608 Email: mark.patty@swic.edu
Dean: Dr. Kimberly Cherry Vogt, ext. 5050 Email: kimberly.cherryvogt@swic.edu

Refer to the following AES Engineering Pre-Major for specific course requirements for each of the Engineering subplans. There are many engineering majors at 4-year colleges and universities. The Engineering subplans identify course requirements and recommendations for each of these major specializations. Because requirements vary at colleges and universities, it is important to select your courses with the assistance of the program coordinator and an academic advisor.

REQUIREMENTS OF ALL ENGINEERING SPECIALTIES (45 credit hours):

Communications (total of 9 semester credits): A minimum grade of "C" is required for ENG 101

_____ ENG 101 _____ ENG 102 _____ COMM 151 OR 155

Mathematics (17 semester credits):

_____ MATH 203 _____ MATH 204 _____ MATH 205 _____ MATH 290

Physical Sciences (13 semester credits):

_____ CHEM 105 _____ PHYS 204 _____ PHYS 205

Social/Behavioral Science (3 semester credits, select from one of the following):

_____ ECON 201 _____ ECON 202 _____ POLS 150

Human Relations OR Non-Western Course (3 semester credits):

_____ ANTH 150	_____ HIST 114	_____ LIT 117	_____ POLS 241
_____ ART 103	_____ HIST 115	_____ LIT 205	_____ SOC 220
_____ ART 110	_____ HIST 117	_____ LIT 215	_____ SOC 230*
_____ GEOG 202	_____ HIST 118	_____ LIT 216	
_____ HIST 101	_____ HIST 230	_____ MUS 110	
_____ HIST 102	_____ HIST 286	_____ PHIL 155	

*SOC 230 is the recommended course for this selection

ENGINEERING SUBPLAN SELECTIONS (15-27 credit hours):

Engineering Subplan Selections Using program subplans on the following pages, select appropriate engineering subplan selections from the offerings below (15-27 credits):

_____ AGRI 121	_____ CHEM 106	_____ ENGR 264	_____ MATH 210
_____ BIOL 100	_____ CHEM 201	_____ ENGR 271	_____ MATH 271
_____ BIOL 101	_____ CHEM 202	_____ ENGR 275	_____ MATH 292
_____ BIOL 102	_____ ENGR 103	_____ ES 102	_____ ORIE 101
_____ BIOL 107	_____ ENGR 251	_____ MATH 171	_____ PHYS 206
_____ BIOL 270	_____ ENGR 263	_____ MATH 191/BUS 205	

General Education Selection Options within Engineering Subplan Selections:

Humanities and Fine Arts (0-3 credits):

_____ ART 101	_____ MUS 101	_____ PHIL 151	_____ PHIL 152
_____ FILM 115	_____ PHIL 150		

Social and Behavioral Sciences (0-3 credits):

_____ GEOG 152	_____ HIST 181	_____ PSYC 151	_____ SOC 153
_____ HIST 180	_____ POLS 150		

Human Wellbeing (0-2 credits):

_____ HES 151 _____ HES 152 _____ HES 154 _____ HES 155

Engineering Pre-Major - Aerospace Engineering Subplan

Associate in Engineering Science Degree (AES1)

swic.edu/engineering

Coordinator/Faculty: Dr. Mark Patty, ext. 5608
Email: Mark.Patty@swic.edu
Dean: Dr. Kimberly Cherry Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

Aerospace Engineering is a broad, interdisciplinary field, and aerospace engineers create highly complex systems that apply the laws of physics and mathematics to topics of analysis and design of aerospace vehicles, including aircraft, missiles, and spacecraft. Aerospace engineers work in private and government defense, private space exploration companies, and aircraft manufacturing to design innovative and practical solutions for aviation needs. This program subplan provides a strong foundation in fundamental areas such as mathematics, physics, mechanics, dynamics, materials, and electrical systems. Graduates who plan to go on to a Bachelor's degree in Aerospace Engineering will be well prepared to study aerodynamics, aircraft structures, flight dynamics and controls, and propulsion of aircraft and spacecraft.

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Science Degree
Aerospace Engineering Subplan

First Year

Fall Semester			**Semester Credits**
MATH	203	Analytic Geometry & Calculus I*	5
CHEM	105	General Chemistry I*	5
ENG	101	Rhetoric & Composition I*	3
Human Relations Selection			3
Total Semester Credits			**16**

First Year

Spring Semester			**Semester Credits**
MATH	204	Analytic Geometry & Calculus II *	5
PHYS	204	Physics - Mechanics*	4
ENG	102	Rhetoric & Composition II	3
COMM	151	Introduction to Public Speaking OR	
COMM	155	Interpersonal Communications	3
Total Semester Credits			**15**

Second Year

Fall Semester			**Semester Credits**
MATH	205	Analytic Geometry & Calculus III*	4
MATH	210	Computer Programming for Engineers*	3
PHYS	205	Physics - Heat, Elec. & Magentism*	4
ENGR	263	Analytical Mechanics-Statics*	3
ENGR	103	Engineering Graphics	4
Total Semester Credits			**18**

Apply for Graduation Now

Second Year

Spring Semester			**Semester Credits**
MATH	290	Differential Equations*	3
ENGR	264	Analytical Mechanic-Dynamics* OR	
PHYS	206	Physics-Light & Modern Physics*	3-4
ENGR	275	Mechanics of Solids* OR	
General Education Selection			3
ENGR	271	Electrical Circuits OR	
General Education Selection*			3
ECON	201	Principles of Macroeconomics OR	
ECON	202	Principles of Microeconomics OR	
POLS	150	Introduction to American Government	3
Total Semester Credits			**15-16**
Total Credits			**64-65**

***Indicates courses that must be taken in order.**

Career Opportunities

A graduate of Associate of Engineering Science-Aerospace Engineering Subplan can find employment as:

- Aerospace Technician
- Aircraft Mechanic
- CAD Technician
- Inspector and Compliance Officer

A student who transfers to earn a Bachelor of Science in Aerospace Engineering can find employment as:

- Aerospace Engineer
- Aircraft and Spacecraft Design Engineer
- Avionics Engineer
- Design Engineer
- Electronics Engineer
- Flight Test Engineer
- Mechanical Engineer
- Structural engineer
- Systems Engineer

Engineering Pre-Major - Bioengineering Subplan

Associate in Engineering Science Degree (AES1)

swic.edu/engineering

Coordinator/Faculty: Dr. Mark Patty, ext. 5608
Email: Mark.Patty@swic.edu
Dean: Dr. Kimberly Cherry Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

Bioengineering is the application of experimental and analytical techniques based on the engineering sciences to support the development of biologics, materials, devices, implants, processes, and systems that advance biology and medicine and improve medical practice and health care. Beyond medicine, bioengineering also includes applications in biotechnology, agriculture, bioenergy, and environmental protection, where engineers design sustainable processes, biomanufacturing systems, and engineered organisms for societal benefit. Bachelor's degrees in bioengineering vary widely in requirements. Students are encouraged to work with the program coordinator and their advisor early to develop an academic plan that will ensure transferability of coursework and timely degree completion.

Articulation Agreements

- SIU-Carbondale – B.S. Biomedical Engineering

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Science Degree Bioengineering Subplan

First Year

Fall Semester			**Semester Credits**
MATH	203	Analytic Geometry & Calculus I*	5
CHEM	105	General Chemistry I*	5
ENG	101	Rhetoric & Composition I*	3
BIOL	101	Principles of Biology I* OR	
AGRI	121	Soil Science	4
Total Semester Credits			**17**

First Year

Spring Semester			**Semester Credits**
MATH	204	Analytic Geometry & Calculus II *	5
CHEM	106	General Chemistry II*	5
PHYS	204	Physics - Mechanics*	4
ENG	102	Rhetoric & Composition II	3
Total Semester Credits			**17**

Second Year

Fall Semester			**Semester Credits**
MATH	205	Analytic Geometry & Calculus III*	4
MATH	171	Compuer Science I-JAVA* OR	
MATH	210	Computer Programming for Engineers* OR	
ENGR	103	Engineering Graphics	3-4
CHEM	201	Organic Chemistry I* OR	
ENGR	263	Analytical Mechanics-Statics*	3-5
PHYS	205	Physics - Heat, Elec. & Magentism*	4
COMM	151	Introduction to Public Speaking OR	
COMM	155	Interpersonal Communications	3
Total Semester Credits			**17-20**

Apply for Graduation Now

Second Year

Spring Semester			**Semester Credits**
MATH	290	Differential Equations*	3
CHEM	202	Organic Chemistry II OR	
ENGR	264	Analytical Mechanic-Dynamics* OR	
ENGR	275	Mechanics of Solids OR	
BIOL	270	Genetics	3-5
PHYS	206	Physics-Light & Modern Physics* OR	
General Education Selection			3-4
Human Relations Selection			3
ECON	201	Principles of Macroeconomics OR	
ECON	202	Principles of Microeconomics OR	
POLS	150	Introduction to American Government	3
Total Semester Credits			**15-18**
Total Credits			**66-72**

***Indicates courses that must be taken in order.**

Career Opportunities

A graduate of Associate of Engineering Science-Bioengineering Subplan can find employment as:

- Biomedical Technician
- Equipment Technician
- Manufacturing and Process Engineering Technician
- Research and Development Technician

A student who transfers to earn a Bachelor of Science in Bioengineering can find employment as:

- Biochemical Engineer
- Bioinstrumentation Engineer
- Biomaterials Engineer
- Biomechanics Engineer
- Clinical Engineer
- Genetic Engineer
- Rehabilitation Engineer

Engineering Pre-Major - Chemical Engineering Subplan

Associate in Engineering Science Degree (AES1)

swic.edu/engineering

Coordinator/Faculty: Dr. Mark Patty, ext. 5608
Email: Mark.Patty@swic.edu
Dean: Dr. Kimberly Cherry Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

Chemical engineering is the branch of engineering that applies principles of chemistry, physics, mathematics, and biology to design, develop, and optimize processes that transform raw materials into valuable products. Chemical engineers design and manage processes for a wide range of industries, including pharmaceuticals, fuels, food, plastics, electronics, and advanced materials, while integrating modern technologies such as process modeling, computer-aided design, and biotechnology. Students will be prepared to pursue a Bachelor's degree in Chemical Engineering with the foundational mathematics, chemistry, and physics knowledge required to learn how to address complex energy, health, and environmental challenges, creating innovative solutions that improve quality of life and advance sustainable development.

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Science Degree Chemical Engineering Subplan

First Year

Fall Semester			**Semester Credits**
MATH	203	Analytic Geometry & Calculus I*	5
CHEM	105	General Chemistry I*	5
ENG	101	Rhetoric & Composition I*	3
Human Relations Selection			3
Total Semester Credits			**16**

First Year

Spring Semester			**Semester Credits**
MATH	204	Analytic Geometry & Calculus II *	5
CHEM	106	General Chemistry II*	5
PHYS	204	Physics - Mechanics*	4
ENG	102	Rhetoric & Composition II	3
Total Semester Credits			**17**

Second Year

Fall Semester			**Semester Credits**
MATH	205	Analytic Geometry & Calculus III*	4
MATH	171	Compuer Science I-JAVA* OR	
MATH	210	Computer Programming for Engineers*	3-4
CHEM	201	Organic Chemistry I*	5
PHYS	205	Physics - Heat, Elec. & Magentism*	4
Total Semester Credits			**16-17**

Apply for Graduation Now

Second Year

Spring Semester			**Semester Credits**
MATH	290	Differential Equations*	3
CHEM	202	Organic Chemistry II*	5
PHYS	206	Physics-Light & Modern Physics*	4
COMM	151	Introduction to Public Speaking OR	
COMM	155	Interpersonal Communications	3
ECON	201	Principles of Macroeconomics OR	
ECON	202	Principles of Microeconomics OR	
POLS	150	Introduction to American Government	3
Total Semester Credits			**18**
Total Credits			**67-68**

Career Opportunities

A graduate of Associate of Engineering Science-Chemical Engineering Subplan can find employment as:

- Chemical technician
- CAD technician
- Environmental technician
- Laboratory technician

A student who transfers to earn a Bachelor of Science in Chemical Engineering can find employment as:

- Biotechnologist
- Chemical engineer
- Energy engineer
- Environmental engineer
- Geochemist
- Materials engineer
- Metallurgist
- Nuclear engineer
- Petroleum engineer
- Product/process development scientist
- Quality control engineer

Engineering Pre-Major - Civil Engineering Subplan

Associate in Engineering Science Degree (AES1)

swic.edu/engineering

Coordinator/Faculty: Dr. Mark Patty, ext. 5608
Email: Mark.Patty@swic.edu
Dean: Dr. Kimberly Cherry Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

One of the oldest and broadest engineering fields, Civil Engineering focuses on the design, construction, and maintenance of the physical and natural environment. It includes public and private infrastructure such as roads, bridges, buildings, dams, airports, pipelines, railways, and water and sewage systems. Drawing on mathematics, physics, materials science, and environmental studies, civil engineering applies scientific methods to create safe, sustainable, and efficient structures and systems. This program subplan provides a strong foundation in fundamental areas such as mathematics, physics, mechanics, dynamics, and materials. Graduates who go on to pursue a Bachelor's degree will be well prepared to learn to plan, design, and manage projects from concept to completion, ensuring they meet technical, social, and environmental standards.

Articulation Agreements

- SIU-Carbondale – B.S. Civil Engineering
- SIU-Edwardsville – B.S. Civil Engineering

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Science Degree Civil Engineering Subplan

First Year

Fall Semester			**Semester Credits**
MATH	203	Analytic Geometry & Calculus I*	5
CHEM	105	General Chemistry I*	5
ENG	101	Rhetoric & Composition I*	3
ENGR	103	Engineering Graphics	4
Total Semester Credits			**17**

First Year

Spring Semester			**Semester Credits**
MATH	204	Analytic Geometry & Calculus II *	5
PHYS	204	Physics - Mechanics*	4
ENG	102	Rhetoric & Composition II	3
COMM	151	Introduction to Public Speaking OR	
COMM	155	Interpersonal Communications	3
Human Relations Selection			3
Total Semester Credits			**18**

Second Year

Fall Semester			**Semester Credits**
MATH	205	Analytic Geometry & Calculus III*	4
MATH	210	Computer Programming for Engineers*	3
PHYS	205	Physics - Heat, Elec. & Magentism*	4
ENGR	263	Analytical Mechanics-Statics*	3
ECON	201	Principles of Macroeconomics OR	
ECON	202	Principles of Microeconomics OR	
POLS	150	Introduction to American Government	3
Total Semester Credits			**17**

Apply for Graduation Now

Second Year

Spring Semester			**Semester Credits**
MATH	290	Differential Equations* OR	
PHYS	206	Physics-Light & Modern Physics*	3-4
ENGR	264	Analytical Mechanics-Dynamics*	3
ENGR	275	Mechanics of Solids*	3
ENGR	251	Surveying Fundamentals	3
BIOL	100	Introduction to Biology OR	
BIOL	101	Principles of Biology I OR	
BIOL	107	Human Genetics OR	
CHEM	106	General Chemistry II OR	
ES	102	Physical Geology	3-5
Total Semester Credits			**15-18**
Total Credits			**67-70**

Career Opportunities

A graduate of Associate of Engineering Science-Civil Engineering Subplan can find employment as:

- Engineering Technician
- CAD Technician
- Engineering Apprentice
- Land Surveyor

A student who transfers to earn a Bachelor of Science in Civil Engineering can find employment as:

- Construction engineer
- Design engineer
- Environmental engineer
- Geotechnical engineer
- Marine engineer
- Structural engineer
- Transportation engineer
- Water resource engineer

Engineering Pre-Major - Computer Engineering Subplan

Associate in Engineering Science Degree (AES1)

swic.edu/engineering

Coordinator/Faculty: Dr. Mark Patty, ext. 5608
Email: Mark.Patty@swic.edu
Dean: Dr. Kimberly Cherry Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

Computer Engineering is an interdisciplinary field that combines electrical engineering and computer science to design, develop, and maintain computer hardware and software systems. Computer engineers build the future by creating mobile applications, programs, routers, and circuit boards that keep modern civilization running. Hardware engineers develop the blueprints for processors, networks, and memory devices, while software engineers write the code that builds programs for end users. Graduates are prepared with foundational knowledge in mathematics and physics necessary to continue their education in a bachelor's degree program in computer engineering or a related field.

Articulation Agreements

- SIU-Carbondale – B.S. Computer Engineering
- SIU-Edwardsville – B.S. Computer Engineering

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Science Degree Computer Engineering Subplan

First Year

Fall Semester			**Semester Credits**
MATH	203	Analytic Geometry & Calculus I*	5
CHEM	105	General Chemistry I	5
ENG	101	Rhetoric & Composition I*	3
Human Relations Selection			3
Total Semester Credits			**16**

First Year

Spring Semester			**Semester Credits**
MATH	204	Analytic Geometry & Calculus II *	5
PHYS	204	Physics - Mechanics*	4
ENG	102	Rhetoric & Composition II	
COMM	151	Introduction to Public Speaking OR	
COMM	155	Interpersonal Communications	3
Total Semester Credits			**15**

Second Year

Fall Semester			**Semester Credits**
MATH	205	Analytic Geometry & Calculus III*	4
PHYS	205	Physics - Heat, Elec. & Magnetism*	4
MATH	171	Computer Science I-JAVA* OR	
MATH	210	Computer Programming for Engineers* OR	
ENGR	263	Analytical Mechanics-Statics*	3-4
ECON	201	Principles of Macroeconomics OR	
ECON	202	Principles of Microeconomics OR	
POLS	150	Introduction to American Government	3
Total Semester Credits			**14-15**

Apply for Graduation Now

Second Year

Spring Semester			**Semester Credits**
MATH	290	Differential Equations* OR	3
ENGR	264	Analytical Mechanics-Dynamics* OR	
MATH	271	Computer Science II - JAVA OR	
PHYS	206	Physics-Light & Modern Physics*	3-4
ENGR	271	Electrical Circuits OR	
PHYS	206	Physics-Light & Modern Physics	3-4
General Education Selection			3
BIOL	100	Introduction to Biology OR	
BIOL	101	Principles of Biology I OR	
BIOL	107	Human Genetics OR	3-4
Total Semester Credits			**15-18**
Total Credits			**60-64**

Career Opportunities

A graduate of Associate of Engineering Science-Computer Engineering Subplan can find employment as:

- Computer Technician
- IT Support Specialist
- Database/Network/Systems Administrator
- Information Security Analyst

A student who transfers to earn a Bachelor of Science in Computer Engineering can find employment as:

- Software Developer/Engineer
- Computer Programmer
- Computer Systems Analyst
- Embedded Systems Engineer
- Cloud Computing Engineer
- Computer Hardware Engineer
- Network Engineer
- Platform Engineer
- Data Engineer
- Machine Learning Engineer
- Cybersecurity Analyst/Specialist

Engineering Pre-Major - Electrical Engineering Subplan

Associate in Engineering Science Degree (AES1)

swic.edu/engineering

Coordinator/Faculty: Dr. Mark Patty, ext. 5608
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Electrical Engineering is the study and application of electricity, electronics, and electromagnetism for the design, development, testing, and implementation of systems that power and connect to the modern world. Electrical and Electronic Engineers design, develop, and supervise the manufacture and maintenance of electrical and electronic equipment, components, and systems. This program subplan provides a strong foundation in fundamental areas of mathematics and physics. Graduates are well-prepared to pursue a Bachelor's degree in Electrical Engineering and learn to analyze and design circuits, power systems, and communication networks.

Articulation Agreements

- SIU-Carbondale – B.S. Electrical Engineering
- SIU-Edwardsville – B.S. Electrical Engineering

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Science Degree Electrical Engineering Subplan

First Year

Fall Semester			**Semester Credits**
MATH	203	Analytic Geometry & Calculus I*	5
CHEM	105	General Chemistry I	5
ENG	101	Rhetoric & Composition I*	3
Human Relations Selection			3
Total Semester Credits			**16**

First Year

Spring Semester			**Semester Credits**
MATH	204	Analytic Geometry & Calculus II *	5
PHYS	204	Physics - Mechanics*	4
ENG	102	Rhetoric & Composition II	3
COMM	151	Introduction to Public Speaking OR	
COMM	155	Interpersonal Communications	3
Total Semester Credits			**15**

Second Year

Fall Semester			**Semester Credits**
MATH	205	Analytic Geometry & Calculus III*	4
MATH	171	Computer Science I-JAVA* OR	
MATH	210	Computer Programming for Engineers* OR	
ENGR	263	Analytical Mechanics-Statics*	3-4
PHYS	205	Physics - Heat, Elec. & Magentism*	4
ECON	201	Principles of Macroeconomics OR	
ECON	202	Principles of Microeconomics OR	
POLS	150	Introduction to American Government	3
Total Semester Credits			**14-15**

Apply for Graduation Now

Second Year

Spring Semester			**Semester Credits**
MATH	290	Differential Equations*	3
PHYS	206	Physics-Light & Modern Physics* OR	
General Education Selection			3-4
ENGR	271	Electrical Circuits* OR	
MATH	292	Linear Algebra*	3
BIOL	100	Introduction to Biology OR	
BIOL	101	Principles of Biology I OR	
BIOL	107	Human Genetics OR	
General Education Selection			3-4
General Education Selection			3
Total Semester Credits			**15-17**
Total Credits			**60-63**

Career Opportunities

A graduate of Associate of Engineering Science-Electrical Engineering Subplan can find employment as:

- Engineering Technician
- CAD Technician
- Electrical Designer
- Instrumentation Technician

A student who transfers to earn a Bachelor of Science in Electrical Engineering can find employment as:

- Aerospace Electrical Engineer
- Artificial Intelligence and Machine Learning Engineer
- Controls Engineer
- Electrical Design Engineer
- Electronics Engineer
- Power Systems Engineer
- Robotics Engineer
- Telecommunications Engineer
- Test Engineer

Engineering Pre-Major - Industrial Engineering Subplan

Associate in Engineering Science Degree (AES1)

swic.edu/engineering

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Industrial Engineering is a multidisciplinary field focused on optimizing processes, boosting productivity, and enhancing quality and safety. Using analytical modeling, data-driven decisions, and problem-solving techniques, industrial engineers improve performance across manufacturing, healthcare, logistics, transportation, and service industries. This program subplan provides a strong foundation in fundamental areas such as mathematics, physics, mechanics, materials, and electrical systems. Graduates who plan to go on to a Bachelor's degree in Industrial Engineering will be well prepared to study manufacturing and production systems, facility planning, quality control, and operations research.

Articulation Agreements

- SIU-Edwardsville – B.S. Industrial Engineering

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Science Degree Industrial Engineering Subplan Map

First Year

Fall Semester			**Semester Credits**
MATH	203	Analytic Geometry & Calculus I*	5
CHEM	105	General Chemistry I	5
ENG	101	Rhetoric & Composition I*	3
ENGR	103	Engineering Graphics	4
Total Semester Credits			**17**

First Year

Spring Semester			**Semester Credits**
MATH	204	Analytic Geometry & Calculus II *	5
PHYS	204	Physics - Mechanics*	4
ENG	102	Rhetoric & Composition II	3
COMM	151	Introduction to Public Speaking OR	3
COMM	155	Interpersonal Communications	
Total Semester Credits			**15**

Second Year

Fall Semester			**Semester Credits**
MATH	205	Analytic Geometry & Calculus III*	4
MATH	171	Computer Science I-JAVA* OR	
MATH	210	Computer Programming for Engineers*	3-4
PHYS	205	Physics - Heat, Elec. & Magnetism*	4
ENGR	263	Analytical Mechanics-Statics*	3
Human Relations Selection			3
Total Semester Credits			**17-18**

Apply for Graduation Now

Second Year

Spring Semester			**Semester Credits**
MATH	290	Differential Equations*	3
ENGR	264	Analytical Mechanics-Dynamics* OR	
PHYS	206	Physics-Light & Modern Physics*	3-4
ENGR	271	Electrical Circuits* OR	
PHYS	206	Physics-Light & Modern Physics* OR	
General Education Selection			3-4
ENGR	275	Mechanics of Solids* OR	
General Education Selection			3
ECON	201	Principles of Macroeconomics OR	
ECON	202	Principles of Microeconomics OR	
POLS	150	Introduction to American Government	3
Total Semester Credits			**15-17**
Total Credits			**64-67**

Career Opportunities

A graduate of Associate of Engineering Science-Industrial Engineering Subplan can find employment as:

- Engineering Technician
- Industrial engineering technician
- Maintenance technician
- Quality control technician

A student who transfers to earn a Bachelor of Science in Industrial Engineering can find employment as:

- Human factors engineer
- Ergonomics engineer
- Facility planner
- Manufacturing engineer
- Quality engineer
- Supply chain engineer
- Systems engineer
- Validation engineer

Engineering Pre-Major - Mechanical Engineering Subplan

Associate in Engineering Science Degree (AES1)

swic.edu/engineering

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Mechanical Engineering is a versatile and wide-ranging field focused on the design, analysis, and development of systems involving motion, energy, and force to create and improve machines and devices. It combines core principles from physics, mathematics, and materials science to solve real-world engineering challenges and drive innovation across industries. This program subplan provides a strong foundation in fundamental areas such as mechanics, dynamics, thermodynamics, materials science, structural analysis, and electrical systems. Graduates are well-prepared to pursue a Bachelor's degree in Mechanical Engineering—contributing to the technologies and infrastructure that shape everyday life.

Articulation Agreements

- SIU-Carbondale – B.S. Mechanical Engineering
- SIU-Edwardsville – B.S. Mechanical Engineering

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Science Degree
Mechanical Engineering Subplan

First Year

Fall Semester			**Semester Credits**
MATH	203	Analytic Geometry & Calculus I*	5
CHEM	105	General Chemistry I*	5
ENG	101	Rhetoric & Composition I*	3
Human Relations Selection			3
Total Semester Credits			**16**

First Year

Spring Semester			**Semester Credits**
MATH	204	Analytic Geometry & Calculus II *	5
PHYS	204	Physics - Mechanics*	4
ENG	102	Rhetoric & Composition II	3
COMM	151	Introduction to Public Speaking OR	
COMM	155	Interpersonal Communications	3
Total Semester Credits			**15**

Second Year

Fall Semester			**Semester Credits**
MATH	205	Analytic Geometry & Calculus III*	4
MATH	210	Computer Programming for Engineers* OR	
General Education Selection			3
PHYS	205	Physics - Heat, Elec. & Magnetism*	4
ENGR	263	Analytical Mechanics-Statics*	3
ENGR	103	Engineering Graphics	4
Total Semester Credits			**18**

Apply for Graduation Now

Second Year

Spring Semester			**Semester Credits**
MATH	290	Differential Equations*	3
ENGR	264	Analytical Mechanics-Dynamics* OR	
PHYS	206	Physics-Light & Modern Physics*	3-4
ENGR	271	Electrical Circuits* OR	
PHYS	206	Physics-Light & Modern Physics*	3-4
ENGR	275	Mechanics of Solids* OR	
BIOL	100	Introduction to Biology OR	
BIOL	101	Principles of Biology I OR	
BIOL	107	Human Genetics OR	
CHEM	106	General Chemistry II*	3-5
ECON	201	Principles of Macroeconomics OR	
ECON	202	Principles of Microeconomics OR	
POLS	150	Introduction to American Government	3
Total Semester Credits			**15-19**
Total Credits			**64-68**

Career Opportunities

A graduate of Associate of Engineering Science-Mechanical Engineering Subplan can find employment as:

- Engineering Technician
- CAD Technician or Draftsman
- Mechanical Designer
- Quality Assurance Technician

A student who transfers to earn a Bachelor of Science in Civil Engineering can find employment as:

- Automotive Engineer
- Construction Engineer
- HVAC Engineer
- Mechanical Design Engineer
- Piping Engineer
- Robotics Engineer
- Structural Engineer
- Thermal Systems Engineer

Engineering Pre-Major - Mechatronics & Robotics Engineering Subplan

Associate in Engineering Science Degree (AES1)

swic.edu/engineering

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Mechatronics and Robotics Engineering is an interdisciplinary field combining mechanical, electrical, computer, and control systems engineering to design intelligent and automated technologies. Mechatronics focuses on hardware and software integration in complete systems, while Robotics centers on autonomous machines capable of sensing, reasoning, and acting. This program subplan provides a strong foundation in fundamental areas such as mathematics, physics, mechanics, dynamics, materials, and electrical systems. Graduates who plan to go on to a Bachelor's degree in Mechatronics and Robotics Engineering will be well prepared to learn to build smart machines that integrate mechanical components with electronics, sensors, actuators, and computer control.

Articulation Agreements

- SIU-Edwardsville – B.S. Mechatronics & Robotics Engineering

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Science Degree
Mechatronics & Robotics Engineering Subplan

First Year

Fall Semester			**Semester Credits**
MATH	203	Analytic Geometry & Calculus I*	5
CHEM	105	General Chemistry I*	5
ENG	101	Rhetoric & Composition I*	3
Human Relations Selection			3
Total Semester Credits			**16**

First Year

Spring Semester			**Semester Credits**
MATH	204	Analytic Geometry & Calculus II *	5
PHYS	204	Physics - Mechanics*	4
ENG	102	Rhetoric & Composition II	3
COMM	151	Introduction to Public Speaking OR	
COMM	155	Interpersonal Communications	3
Total Semester Credits			**15**

Second Year

Fall Semester			**Semester Credits**
MATH	205	Analytic Geometry & Calculus III*	4
MATH	210	Computer Programming for Engineers*	3
PHYS	205	Physics - Heat, Elec. & Magnetism*	4
ENGR	263	Analytical Mechanics-Statics*	3
ECON	201	Principles of Macroeconomics OR	
ECON	202	Principles of Microeconomics OR	
POLS	150	Introduction to American Government	3
Total Semester Credits			**17**

Apply for Graduation Now

Second Year

Spring Semester			**Semester Credits**
MATH	290	Differential Equations*	3
MATH	292	Linear Algebra*	3
ENGR	264	Analytical Mechanics-Dynamics*	3
ENGR	271	Electrical Circuits*	3
ENGR	275	Mechanics of Solids*	3
Total Semester Credits			**15**
Total Credits			**63**

Career Opportunities

A graduate of Associate of Engineering Science-Mechatronics & Robotics Engineering Subplan can find employment as:

- Development engineer
- Mechanical design associate
- Mechatronics and Robotics technician

A student who transfers to earn a Bachelor of Science in Mechatronics & Robotics Engineering can find employment as:

- AI developer
- Automation engineer
- Control systems designer
- Mechatronics engineerr
- Robotics engineer
- Robot programmer

Engineering Pre-Major - Nuclear Engineering Subplan

Associate in Engineering Science Degree (AES1)

swic.edu/engineering

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Nuclear engineers support safe and effective nuclear technologies by advancing reactor designs, enhancing safety practices, developing medical and industrial applications, enabling space and naval propulsion, and managing radioactive materials and waste. Major areas include nuclear power generation, radiation detection and measurement, health physics, nuclear security and nonproliferation, propulsion, and medical and industrial uses of radiation. This program subplan provides a strong foundation in fundamental areas such as mathematics, physics, mechanics, dynamics, materials, and electrical systems. Graduates who plan to go on to a bachelor's degree in nuclear engineering will be well prepared to learn to analyze and design nuclear systems, understand radiation behavior, apply safety and regulatory frameworks, and use computational and experimental tools to solve engineering problems.

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Science Degree Nuclear Engineering Subplan

First Year			
Fall Semester			**Semester Credits**
MATH	203	Analytic Geometry & Calculus I*	5
CHEM	105	General Chemistry I*	5
ENG	101	Rhetoric & Composition I*	3
Human Relations Selection			3
Total Semester Credits			**16**

First Year			
Spring Semester			**Semester Credits**
MATH	204	Analytic Geometry & Calculus II *	5
PHYS	204	Physics - Mechanics*	4
ENG	102	Rhetoric & Composition II	3
COMM	151	Introduction to Public Speaking OR	
COMM	155	Interpersonal Communications	3
Total Semester Credits			**15**

Second Year			
Fall Semester			**Semester Credits**
MATH	205	Analytic Geometry & Calculus III*	4
MATH	210	Computer Programming for Engineers*	3
PHYS	205	Physics - Heat, Elec. & Magnetism*	4
ENGR	263	Analytical Mechanics-Statics*	3
General Education Selection			3
Total Semester Credits			**17**

Apply for Graduation Now

Second Year			
Spring Semester			**Semester Credits**
MATH	290	Differential Equations*	3
ENGR	264	Analytical Mechanics-Dynamics*	3
ENGR	275	Mechanics of Solids	3
ENGR	271	Electrical Circuits* OR	
PHYS	206	Physics-Light & Modern Physics*	3-4
ECON	201	Principles of Macroeconomics OR	
ECON	202	Principles of Microeconomics OR	
POLS	150	Introduction to American Government	3
Total Semester Credits			**15-16**
Total Credits			**63-64**

Career Opportunities

A graduate of Associate of Engineering Science-Nuclear Engineering Subplan can find employment as:

- Radiation protection apprentice
- Instrument and controls electronics technician apprentice
- Nuclear welder
- Nuclear electrician

A student who transfers to earn a Bachelor of Science in Nuclear Engineering can find employment as:

- Atomic process engineer
- Control and instrument engineer
- Materials engineer
- Nuclear radiation engineer
- Nuclear medicine technologist
- Nuclear safety engineer
- Nuclear steam supply system engineer
- Nuclear weapons engineer
- Radiation engineer
- Reactor engineer

PROGRAMS

THAT LEAD

DIRECTLY TO

EMPLOYMENT

ASSOCIATE IN APPLIED SCIENCE

Southwestern Illinois College offers, but is not limited to, the following degree and certificate programs

Program	Credits
Accounting	
Accounting AAS (049A)	61
Bookkeeping Certificate (049F)	29
Administration of Justice	
Administration of Justice AAS (0029)	61
Administration of Justice Certificate (0030)	27
Police Academy Certificate (029A)	30
Armed Private Security Certificate (029B)	3
Unarmed Private Security Certificate (029C)	2
Corrections Academy Certificate (029D)	16
Court Security Academy Certificate (029E)	15
Agriculture Business Management	
Agriculture Business Management AAS (0082)	60-61
Agronomy	
Agronomy AAS (0083)	60
Audio Technology	
Audio Technology Certificate (0097)	18
Aviation Maintenance Technology	
Aviation Maintenance Technology AAS (0009)	75
Airframe & Powerplant Certificate (009A)	60
Airframe Certificate (009B)	36
Powerplant Certificate (009C)	36
Aviation Electronics (Avionics) Certificate (017E)	45
Aviation Management	
Aviation Management AAS (0008)	66
Aircraft Dispatcher Certificate (008A)	23
Aviation Pilot Training	
Aviation Pilot Training - Airplane AAS (0012)	67.5
Aviation Pilot Training - Helicopter AAS (0012)	63
Aviation Pilot Training Certificate (012A)	35.5
Private Pilot Certificate (012F)	13
Business Administration	
Business Administration AAS (0079)	61
Civil Engineering Technology	
Civil Engineering Technology AAS (036D)	60
Community Health Worker	
Community Health Worker Certificate (025E)	16
Commercial Maintenance Mechanics	
Commercial Maintenance Mechanics AAS (053K)	69
Commercial Maintenance Mechanics Certificate (054K)	41
Computer Aided Design	
Computer Aided Design AAS (0035)	61
Computer Aided Design Certificate (035D)	33
Computer Information Systems	
Computer Information Systems AAS (0010)	60-63
Software Development Certificate (010D)	30
Web Development Certificate (011D)	27
Web Design Certificate (011E)	24
Office Technology Certificate (033A)	16

Program	Credits
Construction Apprenticeship Training Programs	
Construction Bricklayer AAS (039C)	64
Bricklayer Apprentice Certificate (040C)	64
Construction Carpentry AAS (039G)	64
Carpentry Apprentice Certificate (040G)	64
Construction Cement Mason AAS (039A)	65
Construction Cement Mason Certificate (040A)	65
Construction Electrical Specialist AAS (039E)	64
Construction Electrical Wireman Certificate (040E)	48
Construction Electrical Residential Certificate (040H)	32
Construction Electrical Telecom Certificate (040I)	32
Construction Electrical Lineman Certificate (040J)	32
Construction Ironworker AAS (039D)	65
Ironworker Apprentice Certificate (040D)	65
Construction Painting and Decorating AAS (039F)	60
Painting and Decorating Apprentice Certificate (040F)	60
Construction Sheetmetal AAS (049B)	64
Construction Sheetmetal Apprentice Certificate (040B)	64
Construction Management Technology	
Construction Management Technology AAS (0039)	63
Accelerated Degree Option CMT (0039)	32
Architectural Technology Certificate (039H)	27
CMT Certificate (0040)	35
Building Performance Certificate (036A)	9.5
Building Information Modeling Certificate (036B)	10
Building Trades Safety Certificate (036C)	12
Culinary Arts and Food Management	
Culinary Arts and Food Management AAS (066A)	71
Baking & Pastry AAS (066F)	65
Food Service Certificate (066B)	25
Food Service and Management Certificate (066C)	42
Culinary Arts Certificate (066D)	30
Baking & Pastry Certificate (066E)	41
Food Truck and Mobile Catering Certificate (066I)	47
Cybersecurity and Networking	
Cybersecurity and Networking AAS (0007)	61
Network Associate Certificate (007A)	16
Cybersecurity Specialist Certificate (007D)	35
Help Desk Certificate (011G)	16
Diagnostic Medical Sonography	
Diagnostic Medical Sonography Certificate (028B)	42
Early Childhood Education	
Early Childhood Education AAS (0073)	66-68
Early Childhood Education Level 2 Certificate of Completion	15
Early Childhood Education Level 3 Certificate of Completion	27
Infant Toddler Level 2 Certificate of Completion	15
Emergency Medical Technician	
Emergency Medical Technician Certificate (068C)	8
Film and Video Production	
Film and Video Production AAS (0059)	62
Video Production Certificate (059A)	30
Video Editing Certificate (059B)	18

Southwestern Illinois College offers, but is not limited to, the following degree and certificate programs

Program	Credits
Fire Science	
Fire Science AAS (0057)	66
Fire Fighter I & II Certificate (057A)	11.5
Fire Apparatus Engineer Certificate (057C)	4
Fire Service Instructor I Certificate (057D)	3
Fire Service Instructor II Certificate (057F)	3
Fire Service Officer I Certificate (057E)	6
Fire Service Officer II Certificate (057G)	6
Haz Mat First Responder Certificate (057H)	2.5
Vehicle Rescue Operations Certificate (057J)	3
Rope Rescue I & II Certificate (057L)	3
Confined Space Rescue I & II Certificate (057N)	6
Water Rescue I & II Certificate (057Q)	6
Geospatial and Aeronautical Information Systems	
Geospatial Information Systems Certificate (084B)	17
Aeronautical Information Specialist Certificate (012G)	17
Health Information Technology	
Health Information Technology AAS (0023)	66
Heating, Ventilation, Air Conditioning and Refrigeration	
HVAR AAS (0037)	71
HVAR Certificate (0038)	45.5
Horticulture	
Horticulture AAS (0005)	61-67
General Horticulture Certificate (0006)	16
Cannabis Industry Operations Certificate (006B)	12
Cannabis Cultivation and Processing Certificate (006C)	32
Human Services Technology	
Human Services Technology AAS (0078)	61
Industrial Electricity	
Industrial Electricity AAS (0053)	68.5
Industrial Electricity Certificate (0054)	33.5
Microcomputer Hardware Maintenance Cert. (017C)	12
Industrial Maintenance Mechanics	
Industrial Maintenance Mechanics AAS (053D)	67
Industrial Maintenance Mechanical Certificate (054D)	25.5
Industrial Maintenance Mechanics Electrical Cert. (055D)	30.5
Legal Studies	
Paralegal AAS (0088)	64
Legal Administrative Assistant Certificate (088A)	30
Management	
Management AAS (049B)	67
Management Certificate (049C)	24
Logistics and Supply Chain Management Cert. (049G)	18
Marketing & Graphic Communications	
Marketing & Graphic Communications AAS (0140)	62
Digital Marketing Certificate (031F)	15
Graphics Design Certificate (074A)	21
Massage Therapy	
Massage Therapy AAS (027B)	60
Massage Therapy Certificate (027A)	27
Medical Assistant	
Medical Assistant AAS (0021)	68.5
Medical Assistant Certificate (021A)	38.5

Program	Credits
Medical Laboratory Technology	
Medical Laboratory Technology AAS (0022)	71
Phlebotomy Certificate (021B)	4
Medical Laboratory Assistant Certificate (022A)	7-8
Nurse Assistant	
Nurse Assistant Certificate (025A)	7
Nursing Education	
Nursing Education AAS (0025)	68.5
LPN Bridge	38.5
Practical Nursing	
Practical Nursing Certificate (025C)	37
Paramedic/Paramedicine	
Paramedicine AAS (0068)	69
Paramedic Certificate (068B)	38
Critical Care Transport Certificate (068D)	7
Paraprofessional	
Paraprofessional Certificate (0093)	19
Pharmacy Technician	
Pharmacy Technician Certificate (0034)	16
Physical Therapist Assistant	
Physical Therapist Assistant AAS (0027)	71
Plumbing Technology	
Plumbing Technology Certificate (085A)	18
Precision Machining Technology	
Precision Machining Technology AAS (035H)	67.5
Precision Machining Technology Certificate (054H)	32.5
CNC Machining Certificate (054P)	7.5
Mastercam Certificate (054L)	6.5
SolidWorks Certificate (054M)	6
Advanced CNC Programming Certificate (054R)	6
Advanced Automation/Multi-Axis CNC Cert. (055H)	16
Tool & Die/Mold Making Certificate (056H)	16
Additive Manufacturing Certificate (058H)	20
Radiologic Technology	
Radiologic Technology AAS (0028)	73
Computed Tomography Certificate (028A)	6.5
Magnetic Resonance Imaging Certificate (028E)	8
Respiratory Care	
Respiratory Care AAS (020A)	71
Sign Language Studies: Interpreter	
Sign Language Studies: Interpreter AAS (0024)	67
Sign Language/Basic Communication Certificate (024A)	21
Surgical Technology	
Surgical Technology AAS (028C)	60
Sterile Processing Technician Certificate (028D)	16
Warehousing and Distribution	
Warehousing and Distribution Certificate (045W)	10
Welding Technology	
Welding Technology AAS (0062)	65
Basic Welding Certificate (062A)	18
Welding Technology Advanced Certificate (062B)	16
Advanced Welding Manufacturing Certificate (062D)	16

Associate in Applied Science

Description:
These requirements are for students who plan to begin their career upon completion of their two-year program.

Admission:
Most AAS programs do not require special application or admission requirements. However, students planning to pursue a degree in some Health Sciences fields must meet the admission requirements outlined for each degree on the pages that follow and be formally accepted into the program prior to enrolling in major courses. The following programs have special admission procedures: Medical Laboratory Technology, Nursing Education, Paramedic, Physical Therapist Assistant, Radiologic Technology and Respiratory Care.

Terms:
Students have six years to complete the requirements required for the program they have declared. If the requirements are not completed within six years, students will be required to meet degree requirements for the program in effect at that time.

However, students not enrolled for three consecutive semesters (not including summer) must meet the curriculum requirements in effect at the time of re-enrollment. Students can always choose to complete the current curriculum degree requirements.

The above terms do not apply to the following Health Sciences programs: Health Information Technology, Medical Assistant, Massage Therapy, Medical Laboratory Technology, Nursing Education, Paramedicine, Physical Therapist Assistant, Radiologic Technology and Respiratory Care. Regulations for completion of these programs are clearly outlined in the respective Student Handbooks distributed to students upon admission or enrollment in the program.

General Education Degree Requirements:
Students are required to complete a minimum of 15 semester credits of General Education coursework which can include coursework in Communication, Arts and Humanities, Social and Behavioral Sciences, and Mathematics and Science. Reference the adjacent blue page to determine the general education courses that are classified as: Communication, Humanities, Social Science, Mathematics, Life Science and Physical Science, Human Well-Being and Human Relations requirements.

Residency:
Fifteen of the last 24 credits or an accumulation of 36 credits must be completed at SWIC. Active duty U.S. armed forces and reserve service members must earn only 15 credits at SWIC.

GPA:
A minimum cumulative GPA of 2.00 is required for a degree.

SWIC Articulation Agreements:
SWIC has developed a number of Articulation Agreements with four-year universities to allow for seamless transfer into specific majors. These articulations list recommended coursework to prepare SWIC graduates for entry at the junior level. Please visit swic.edu/articulation to learn more about Articulation Agreements. Most colleges and universities require a grade of "C" or better in a course for transferability of coursework

Human Relations: OR Non-Western Course
One of the following courses must be completed. Some degrees require a specific course within this group. Check the course requirements as outlined in the AAS program guides that follow prior to selecting courses. For reference, human relations are listed in white in the general education areas.

_____ **Humanities and Fine Arts:** ART 110, HIST 230, LIT 117, LIT 215, LIT 216

_____ **Social/Behavioral Science:** ANTH 210, MGMT 213, SOC 203, SOC 220, SOC 230

Non-western courses are highlighted in the general education areas.

_____ **Humanities and Fine Arts:** ART 103, ART 110, HIST 230, HIST 286, LIT 205, MUS 110, PHIL 155

_____ **Social/Behavioral Science:** GEOG 202, HIST 101, HIST 102, HIST 114, HIST 115, HIST 117, HIST 118, POLS 241

Apply for Graduation:
Students must submit an application to Enrollment Services. Applications can be submitted through eSTORM or through Enrollment Services. To be considered for a specific term, applications must be received by the following dates:

Term	Application Date
Fall/December	Oct. 15
Spring/May	Feb. 15
Summer/July	June 15

General Education Course Classifications for the Associate in Applied Science Degree

Refer to the blue AAS program pages for the specific course requirements for each of the AAS degrees. Students must complete at least 15 semester credits of General Education requirements. This page is a reference for general education courses in the areas of Communications, Humanities, Social/Behavioral Science, Mathematics, Life/Physical Science, Human Well-Being electives and the Human Relations requirement. Some courses may only be available to students accepted into specific programs.

A minimum of 60 semester hours in an approved AAS program, a minimum cumulative GP of 2.00 (C) and a **minimum of 15 general education hours** earned across at least 4 of the following general education groups. One course from Humanities and Fine Arts OR Social/Behavioral Science **MUST be a** Human Relations OR Non-Western Course.

Communication (1 course required)
Social/Behavioral Science (1 course required)*
Math/Science (1 course required)
Human Well-being (1 course required)**
Humanities and Fine Arts*

*The required Human Relations or Non-Western course must be selected from the indicated courses in Social/Behavioral Science OR Humanities and Fine Arts
**Students enrolled in health sciences programs are not required to take a Human Well-being course as this competency is embedded throughout the programs.

[1] = Career Type, Non-transfer Courses
[2] = IAI General Education Transfer Courses

Specific Program Requirements
Each Associate in Applied Science degree has unique course requirements. The specific course requirements are on the pages that follow. The degree programs are listed in alphabetical order.

All students must complete at least 15 semester credit hours of general education credit to earn an Associate in Applied Science (AAS) degree. Required general education coursework includes:

Communications (1 course required)

____ AOJ 238[1]	____ ECE125[1]	____ ENG 100	____ ENG 207	____ MCOM 220	____ MA 135[1]
____ AVIA 237[1]	____ COMM 151[2]	____ ENG 101[2]	____ FILM 105	____ MCOM 221	____ PHAR 101
____ BUS 261[1]	____ COMM 155	____ ENG 103	____ GIS 220	____ MCOM 230	
____ CHW 102[1]	____ COMM 200	____ ENG 107	____ MCOM 101	____ MCOM 240	
____ CUL 209[1]	____ COMM 213	____ ENG 203	____ MCOM 201	____ MCOM 255	

Social/Behavioral Science (1 course required)

____ AOJ 100[1]	____ BUS 215	____ GEOG 202[2]	____ HIST 181[2]	____ POLS 240[2]	____ PSYC 250[2]
____ AOJ 103[1]	____ BUS 240	____ GEOG 240	____ HIST 232	____ POLS 241[2]	____ PSYC 251[2]
____ AOJ 153[1]	____ ECON 115[2]	____ HIST 101[2]	____ HIST 250	____ POLS 262[2]	____ PSYC 253[2]
____ ANTH 150[2]	____ ECON 201[2]	____ HIST 102[2]	____ HMS 100	____ POLS 270[2]	____ PSYC 295[2]
____ ANTH 160[2]	____ ECON 202[2]	____ HIST 114[2]	____ MGMT 213	____ POLS 280[2]	____ SOC 153[2]
____ ANTH 210	____ ECE 116	____ HIST 115[2]	____ MKT 126	____ POLS 289	____ SOC 155
____ ANTH 250[2]	____ ED 255	____ HIST 117[2]	____ MUS 201	____ POLS 290	____ SOC 203[2]
____ AGRI 152[1]	____ GEOG 151	____ HIST 118[2]	____ POLS 125[2]	____ POLS 292	____ SOC 220
____ BUS 101	____ GEOG 152[2]	____ HIST 180[2]	____ POLS 150[2]	____ PSYC 151[2]	____ SOC 230[2]
				____ PSYC 210[2]	____ SOC 255[2]

Mathematics/Science (1 course required)

Math Selections:

			Science Selections:		
____ ACCT 110	____ IML 105[1]	____ MATH 213[2]	____ AGRI 111	____ BIOL 108	____ ES 102[2]
____ AVE 100	____ MATH 105&106[2]	____ MGMT 117[1]	____ AGRI 121	____ BIOL 110	____ ES 114[2]
____ BUS 102[1]	____ MATH 107[2]	____ MLT 150[1]	____ AGRI 135	____ BIOL 151[2]	____ ES 180[2]
____ BUS 205[2]	____ MATH 111[2]	____ OAT 155[1]	____ ATY 101[2]	____ BIOL 157	____ ES 250[2]
____ CMT 106	____ MATH 112	____ PN 142[1]	____ BIOL 100[2]	____ CHEM 100[2]	____ GEOG 240
____ ECE 220	____ MATH 113[2]	____ RT 102[1]	____ BIOL 101[2]	____ CHEM 101[2]	____ PHYS 151[2]
____ GT 104[1]	____ MATH 115	____ WRH 124[1]	____ BIOL 105	____ CHEM 105[2]	____ PHYS 204[2]
____ GT 105[1]	____ MATH 191[2]		____ BIOL 106[2]	____ EMS 120[1]	____ RC 103[1]
____ IEW 110[1]	____ MATH 203[2]		____ BIOL 107[2]	____ ES 101[2]	____ SCIE 101
					____ SCIE 110

Human Well-Being (1 course required)

____ AOJ 107[1]	____ HES 151	____ HES 155	____ HES 160	____ HES 180
____ HES 130	____ HES 152	____ HES 156	____ HES 170	____ HRO 150
____ HES 131	____ HES 154	____ HES 158	____ HES 172	

Humanities and Fine Arts

____ ART 101[2]	____ ART 116	____ FILM 225[2]	____ LIT 133[2]	____ LIT 252[2]	____ PHIL 152[2]
____ ART 103[2]	____ ART 120	____ FILM 230	____ LIT 134[2]	____ LIT 290[2]	____ PHIL 155[2]
____ ART 104[2]	____ ART 129	____ FREN 101	____ LIT 201[2]	____ LIT 291[2]	____ PHIL 156
____ ART 105[2]	____ ART 150	____ GERM 101	____ LIT 202[2]	____ LIT 293[2]	____ PHIL 160[2]
____ ART 106[2]	____ ART 218	____ HIST 230[2]	____ LIT 205[2]	____ MUS 101[2]	____ RUSS 101
____ ART 107	____ CHIN 101	____ HIST 250	____ LIT 213[2]	____ MUS 102[2]	____ SLS 103
____ ART 108	____ ED 293	____ HIST 286[2]	____ LIT 214[2]	____ MUS 104	____ SPAN 101
____ ART 109	____ FILM 115[2]	____ LIT 113[2]	____ LIT 215[2]	____ MUS 110[2]	____ THEA 101
____ ART 110[2]	____ FILM 140	____ LIT 117[2]	____ LIT 216[2]	____ MUS 152	____ THEA 120[2]
____ ART 111	____ FILM 150	____ LIT 120[2]	____ LIT 219	____ PHIL 150[2]	____ THEA 161
____ ART 113	____ FILM 215[2]	____ LIT 125[2]	____ LIT 251[2]	____ PHIL 151[2]	____ THEA 256

Accounting

swic.edu/accounting-aas

Department Chair: Dawn Peters, ext. 5487
Dean: Darrell Robin, Ed.D., ext. 5227

The Accounting AAS program prepares students for a variety of jobs including entry-level accounting positions, or for a career as a full-charge bookkeeper. The curriculum includes ACCT 212 Certified Bookkeeper Review. Upon successful completion of the course, students may choose to sit for the Certified Bookkeeper exam, administered by an independent provider and scheduled by the student. This program does not prepare a student to sit for the CPA exam. Individuals who intend to transfer upon graduation to a four-year institution for an undergraduate degree in accounting should review the Associate in Arts degree curriculum for business transfer (Accounting) before selecting the AAS degree program. Course availability varies from semester to semester. Students must pay close attention to the requisites for each course. **Contact an academic advisor or the program coordinator for more information about this degree program including the master course schedule.**

Articulation Agreements

- McKendree University – A.A.S. Accounting to B.B.A. Accounting
- Southern Illinois University Carbondale – A.A.S. Accounting to B.S. Accounting

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (049A)

First Year

Fall Semester			**Semester Credits**
BUS	101	Introduction to Business	3
BUS	102	Business Mathematics	3
ACCT	110	Financial Accounting	4
OAT	175	Electronic Spreadsheets	3
BUS	220	Data Analytics for Business (Fall only)	3
Total Semester Credits			**16**

Spring Semester			**Semester Credits**
ACCT	111	Managerial Accounting	4
ACCT	106	Introduction to QuickBooks	3
ACCT	211	Intermediate Accounting I (spring only)	3
ECON	115	Introduction to Economics **OR**	
ECON	201	Principles of Macroeconomics **OR**	
ECON	202	Principles of Microeconomics	3
ENG	101	Rhetoric & Composition I	3
Total Semester Credits			**16**

Second Year

Fall Semester			**Semester Credits**
ACCT	206	Individual/Business Income Tax (fall only)	3
BUS	215	Business Law	3
BUS	261	Business Communications	3
ACCT	210	Cost Accounting (fall only)	3
Specified Humanities & Fine Arts Elective			3
Total Semester Credits			**15**

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Spring Semester			**Semester Credits**
ACCT	212	Certified Bookkeeper Review (spring only)	3
ACCT	215	Accounting for Small Business (spring only)	3
BUS	209	Business Computer Systems	3
BUS	241	Fundamentals of Finance	3
Human Well-Being Elective			2
Total Semester Credits			**14**

Total Program Credits	**61**

Specified Humanities & Fine Arts Electives:

ART	110	Art & Gender	3
LIT	117	Literature Written by Women	3
LIT	215	Contemporary Multicultural American Lit	3
LIT	216	African American Literature	3

Accelerated Degree Option

Anyone who has completed an associate or bachelor's degree from a regionally accredited college may earn an Associate in Applied Science degree in accounting by completing at least 27 semester credits of program-related coursework. A plan of specific courses required for the degree must be obtained from the program coordinator and approved by the dean and the chief academic officer.

Only those courses completed at SWIC, and not included as part of the requirements for a previously earned degree or certificate, can be considered for this option. Students must meet all institutional requirements for the Associate in Applied Science degree.

Bookkeeping Certificate (049F)

The Bookkeeping Certificate prepares students for entry-level accounting support staff positions. The certificate provides the foundation for a career as a full-charge bookkeeper. Those with experience in the bookkeeping field who lack formal education will find the certificate useful in quantifying their experience for prospective employers and/or clients.

First Year

Fall Semester			**Semester Credits**
ACCT	110	Financial Accounting	4
OAT	175	Electronic Spreadsheets	3

Spring Semester			**Semester Credits**
ACCT	106	Introduction to QuickBooks	3
ACCT	111	Managerial Accounting	4
ACCT	211	Intermediate Accounting I	3

Second Year

Fall Semester			**Semester Credits**
ACCT	206	Individual/Business Income Tax	3
ACCT	210	Cost Accounting	3

Spring Semester			**Semester Credits**
ACCT	212	Certified Bookkeeper Review	3
ACCT	215	Accounting for Small Businesses	3
Total Credits			**29**

Career Opportunities

A graduate of the Accounting AAS program is prepared for the following positions:

- Accounting clerk
- Full-charge bookkeeper
- Accounting support staff

Visit the Occupational Outlook Handbook website for job market information: www.bls.gov.

Administration of Justice

swic.edu/aoj

Coordinator/Faculty: Eric Danford, ext. 5265
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu

The Administration of Justice AAS degree consists of a balance between basic general education and professional coursework preparing graduates for a career in law enforcement. Many police departments at the state and local level are requiring at least two years of college education for employment. Courses may transfer to senior institutions that offer a bachelor's degree in criminal justice.
See the program coordinator or an academic advisor for more information.

Articulation Agreements

- EIU – BA Criminology and Criminal Justice
- EIU – BA Sociology
- McKendree University - BA Sociology-Criminal Justice
- SIU-Carbondale - BA Criminiology & Criminal Justice
- SIU-Edwardsville - BS Criminal Justice

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0029)

First Year

Fall Semester			**Semester Credits**
AOJ	100	Intro to Administration of Justice	3
AOJ	105	Police Administration	3
AOJ	151	Policing: Methods and Ethics	3
ENG	101	Rhetoric & Composition I	3
PSYC	151	General Psychology	3
Total Semester Credits			**15**

Spring Semester			**Semester Credits**
AOJ	153	Juvenile Delinquency	3
AOJ	155	Community Policing	3
ENG	102	Rhetoric and Composition II	3
POLS	150	Intro to American Government	3
SOC	153	Introductory Sociology	3
Total Semester Credits			**15**

Second Year

Fall Semester			**Semester Credits**
AOJ	203	Criminal Law & Admin of Justice	3
AOJ	251	Rules of Criminal Evidence	3
COMM	151	Fundamentals of Public Speaking	3
SOC	203	Social Problems **OR**	
AOJ	160	Criminology	3
OAT****		Elective(s)	3
Total Semester Credits			**15**

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Spring Semester			**Semester Credits**
EMS	105	First Responder-EMS **OR**	4
EMS	107	Medical Response	
AOJ	255	Criminal Investigation Case Preparation	3
AOJ	290	Police Report Writing	3
AOJ		Approved Elective*	6
Total Semester Credits			**16**

Total Program Credits **61**

Students must meet all graduation requirements, including Human Relations, identified at the front of the catalog and completion of all courses withing the degree with a "C" or better.

*AOJ approved electives may be selected from the following list: Law Enforcement: 101, 102, 110, 144, 145, 154, 156, 160, 202, 204, 205, 256, 258, 278, 280 and HS 100; Corrections: 103, 106, 111, 250, 252, 261 and 278.

Students with no criminal justice work experience or not planning to transfer to a senior institution should participate in a work-experience internship (AOJ 278) after completing 24 semester credits of AOJ-prefixed coursework and ENG 102 with a grade of C or better.

**EMS 110 may be substituted.

*** OAT approved electives include: OAT 156, 171, or 180.

Administration of Justice Certificate (0030)

Those who want a concentrated program of study in only police science may enroll in the certificate program. Upon successful completion of the required courses, the student is awarded a certificate of program proficiency. Completion of all courses within the certificate with a "C" or better is required.

			Semester Credits
AOJ	100	Intro to Administration of Justice	3
AOJ	105	Police Administration	3
AOJ	151	Policing: Methods and Ethics	3
AOJ	153	Juvenile Delinquency	3
AOJ	203	Criminal Law & Admin of Justice	3
AOJ	251	Rules of Criminal Evidence	3
AOJ	255	Criminal Investigation Case Preparation	3
ENG	101	Rhetoric & Composition I	3
Elective			3
Total Credits			**27**

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Career Opportunities

A graduate of the Administration of Justice program is prepared to work as a:

- Police officer
- Patrol officer
- Security officer
- Corrections officer
- Deputy sheriff
- Community service officer

Police Academy Intern Training Program

Through the Illinois Law Enforcement Intern Training Act, qualified civilians may attend the Basic Law Enforcement Training Program. Traditionally, peace officers are hired by a law enforcement agency and then sent to a Police Academy for training. Now, qualified civilians have the opportunity to be trained prior to employment; and law enforcement agencies will have the opportunity to hire Police Academy-trained individuals ready for service.

Through the intern program, students will receive the basic academic and practical skills that a law enforcement officer requires in today's job market. The program meets the standards set by the Illinois Law Enforcement Training and Standards Board and provides accepted applicants with the same training received by sworn law enforcement officers. While completion of training does not guarantee employment with a law enforcement agency, there is a strong interest by police agencies to hire select individuals who have completed the basic Law Enforcement Training program.

The Police Academy Intern Training program is 640 hours of intensive academic and physical training. The program includes all aspects of basic law enforcement such as legal issues, citizen interaction, communications, investigations, firearms, and defensive tactics. Successful completion of the curriculum and the State Certification Exam makes graduates eligible for employment as law enforcement officers.

For additional information and application, visit the Police Academy website swicpa.com.

Certificate Programs

Police Academy Certificate (029A)

This certificate program is for individuals enrolled in the Police Academy as a full-time peace officer or accepted academy intern. Interns must successfully complete application requirements per the State of Illinois Intern Training Act.Completion of all courses within the certificate with a "C" or better is required.

			Semester Credits
AOJ	104	Police Officer Proficiencies	6
AOJ	107	Physical Fitness Skills	1
AOJ	120	Foundations of Law Enforcement	3
AOJ	150	Police Officer's Patrol Functions	3
AOJ	152	The Police Function & Human Behavior	4
AOJ	201	Law for Patrol Officers	4
AOJ	206	Police Traffic & Crash Management	2.5
AOJ	238	Criminal Justice Communication	3
AOJ	257	Patrol Investigations	3
FS	280	Haz Mat Awareness	.5
Total Credits			**30**

Armed Private Security Certificate (029B)

This short certificate prepares graduates for employment as armed security guards/officers. This program is approved by the Illinois Department of Professional Regulation for armed security guard certification. Students interested in pursuing this certificate must be at least 18 years of age and possess a Firearm Owners Identification card. Completion of all courses within the certificate with a "C" or better is required.

			Semester Credits
AOJ	144	Security Officer Certification	2
AOJ	145	Introduction to Firearms	1
Total Credits			**3**

Unarmed Private Security Certificate (029C)

This course prepares graduates for employment as unarmed security guards/officers. It is approved by the Illinois Department of Professional Regulation. Completion of all courses within the certificate with a "C" or better is required.

			Semester Credits
AOJ	144	Security Officer Certification	2
Total Credits			**2**

Corrections Academy Certificate (029D)

This certificate program is designed to prepare students for a career as an Illinois county corrections officer. Graduates from the Corrections Academy will meet the Illinois Law Enforcement Training and Standards Board.(ILETSB) requirements for State Corrections Officer Certification. Completion of all courses within the certificate with a "C" or better is required.

			Semester Credits
AOJ	162	Intro to County Corrections	4
AOJ	164	Correctional Proficiencies	5
AOJ	166	Correctional Investigations	4
AOJ	168	Communications in the Correctional System	3
Total Credits			**16**

Court Security Academy Certificate (029E)

This certificate program is designed to prepare students for a career as an Illinois Court Security Officer. Graduates from the Court Security Academy will meet the Illinois Law Enforcement Training and Standards Board (ILETSB) requirements for their state certificate as a Court Security Officer in municipal, county and state courts. The SWIC Court Security Academy will be the only ILETSB certified Court Security Academy in the state. Completion of all courses within the certificate with a "C" or better is required.

			Semester Credits
AOJ	172	Intro to Court Security	3
AOJ	173	Court Security Officer Proficiencies	3
AOJ	174	Court Security Investigations and Functions	3
AOJ	175	Court Security Communications	3
Total Credits			**15**

Career Opportunities

A student attaining the Armed Private Security certificate is prepared to work as a(n):

- Security officer
- Armed security officer

Agriculture Business Management

swic.edu/ag-biz-mgmt

Coordinator/Faculty: Spencer Schuchman, ext. 5657
Email: Spencer.Schuchman@swic.edu
Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

This program is designed to prepare students for careers in farmrelated businesses and production agriculture. Students completing the Agriculture Business Management program will find a great demand for their skills and services in the agriculture chemicals, feed, fertilizer, grain, seeds and other ag-related supply and service businesses.

See the program coordinator for more information.

Articulation Agreements

SIU-Carbondale:
- BS Crop, Soil, and Environmental Management
  - Soil Science
- BS Horticulture Production
- BS Agricultural System & Education
  - Agricultural Communications
  - Agricultural Education
  - Agricultural Production Management
  - Food & Process Engineering Technology
- BS Forestry
  - Forest Resources Management
  - Forest Hydrology
  - Forest Recreation & Park Management
  - Urban Forest Management
  - Wildlife Habitat Management & Conservation

Eastern Illinois University:
- BS Organizational Development

McKendree:
- BS Business Administration
- BBA Business Management
- BS Agribusiness

Associate in Applied Science Degree (0082)

First Year

Fall Semester			**Semester Credits**
AGRI	121	Soil Science	4
AGRI	135	Crop Science	4
COMM	151	Fundamentals of Public Speaking **OR**	
COMM	155	Interpersonal Communication	3
ENG	101	Rhetoric & Composition I	3
HES	151	Personal Health and Wellness **OR**	
HES	152	First Aid-Medical Self Help	2
Total Semester Credits			**16**

Spring Semester			**Semester Credits**
AGRI	100	Intro to Ag Business Management	3
AGRI	152	Agricultural Economics	3
AGRI	220	Internship	1
ACCT	110	Financial Accounting	4
BUS	102	Business Mathematics **OR**	
MATH	112	College Algebra	3-4
Total Semester Credits			**14-15**

Second Year

Fall Semester			**Semester Credits**
ACCT	111	Managerial Accounting	4
MGMT	214	Principles of Management	3
Agribusiness Elective Selection			3
Agribusiness Elective Selection			3
Agribusiness Elective Selection			3
Total Semester Credits			16

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Spring Semester			**Semester Credits**
AGRI	104	Ag Application of the Computer **OR**	
BUS	209	Business Computer Systems	3
AGRI	220	Internship	2
Human Relations or Non-Western Selection			3
Agribusiness Elective Selection			3
Agribusiness Elective Selection			3
Total Semester Credits			14
Total Program Credits			**60-61**

Agribusiness Elective Selections:

AGRI	111	Animal Science	4
AGRI	202	Plant Pest Management	4
AGRI	211	Crop Machinery and Equipment	3
AGRI	213	Soil Fertility and Fertilizers	3
AGRI	216	Agricultural Sales	3
AGRI	217	Agriculture Finance	3
AGRI	218	Agricultural Marketing	3
AGRI	220	Internship **OR**	
AGRI	299	Special Topics in Agriculture	variable
AVIA	126	UAS Pilot Certification **OR**	
AVIA	226	Advanced UAS Professional Pilot Certification	1-4
BIOL	100	General Biology, BIOL 101: Principles of Biology I, **OR** BIOL 151: Plants and Society*	4
BUS	215	Business Law	3
BUS	220	Data Analytics for Business	3
BUS	241	Fundamentals of Finance	3
BUS	261	Business Communications	3
CHEM	101	Introductory Chemistry*	5
COMM	151	Fundamentals of Public Speaking **OR**	
COMM	155	Interpersonal Communication	3
ECON	201	Principles of Macroeconomics	3
ECON	202	Principles of Microeconomics	3
ENG	102	Rhetoric and Composition II*	3
ENG	203	Technical, Scientific, and Professional Communication*	3

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog

Career Opportunities

The Associate in Applied Science in Ag Business Management prepares the student for an entry-level position in the following careers:
- Budget analyst
- Buyer and purchasing agent of farm products
- Farm and ranch manager
- Financial analyst
- Insurance adjuster
- Marketing specialist
- Sales manager

Agronomy

Coordinator/Faculty: Spencer Schuchman, ext. 5657
Email: Spencer.Schuchman@swic.edu
Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

The Agronomy Associate in Applied Science program prepares students for careers in agronomy and agricultural sciences by providing a comprehensive foundation in crop production, soil management, pest control, and agricultural technology. This program emphasizes the application of science and technology to enhance the production of food, feed, fiber, and fuel. Students will gain hands-on experience in crop scouting, soil fertility, pesticide use, and other key areas essential for managing agricultural systems effectively.

See the program coordinator or an academic advisor for more information.

Articulation Agreements

- McKendree - BS Agribusiness

Associate in Applied Science Degree (0083)

First Year

Fall Semester			**Semester Credits**
AGRI	121	Soil Science	4
AGRI	135	Crop Science	4
COMM	151	Fundamentals of Public Speaking **OR**	
COMM	155	Interpersonal Communication	4
ENG	101	Rhetoric & Composition I	3
HES	151	Personal Health and Wellness **OR**	
HES	152	First Aid-Medical Self Help	2
Total Semester Credits			**16**

Spring Semester			**Semester Credits**
AGRI	213	Soil Fertility and Fertilizers	3
CHEM	101	Introduction to Chemistry **OR**	
CHEM	105	General Chemistry I	5
BIOL	151	Plants and Society	4
Agronomy Elective Selection			3
Total Semester Credits			**15**

Second Year

Fall Semester			**Semester Credits**
AGRI	202	Plant Pest Management	4
AGRI	206	Crop Scouting	3
MATH	107	General Education Statistics **OR**	
MATH	112	College Algebra	4
Agronomy Elective Selection			3
Total Semester Credits			**14**

Apply for Graduation Now

Spring Semester			**Semester Credits**
AGRI	152	Agricultural Economics	3
AGRI	220	Internship	3
Agronomy Elective Selection			3
Agronomy Elective Selection			3
Human Relations or Non-Western Selection			3
Total Semester Credits			**15**
Total Program Credits			**60**

Agronomy Elective Selections:

AGRI 100: Introduction to Ag Business Management	3
AGRI 104: Ag Application of the Computer	3
AGRI 105: Principles of Agronomy	3
AGRI 198: Weed Science and Management	3
AGRI 211: Crop Machinery and Equipment	3
AGRI 216: Agriculture Sales	3
AGRI 217: Agricultural Finance	3
AGRI 218: Agricultural Marketing	3
AGRI 220: Internship OR	
AGRI 299: Special Topics in Agriculture	variable
AVIA 126: UAS Pilot Certification OR	
AVIA 226: Advanced UAS Professional Pilot Certification	1-4
CHEM 103: Introductory Organic & Biological Chemistry	5
CHEM 106: General Chemistry II	5
COMM 151: Fundamentals of Public Speaking OR	
COMM 155: Interpersonal Communication	3
ENG 203: Technical, Scientific, and Professional Communication	3
GIS 100: Intro to Mapping and GIS	3
GIS 101: GIS and Cartography	3
GIS 102: Remote Sensing	3
GIS 103: GIS Data Analysis and Data Management	3
MATH 115: Pre-Calculus	5
MATH 213: Calculus for Business and Social Sciences	4
PHYS 151: College Physics I	5
PHYS 151: College Physics II	5

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog

Career Opportunities

The Agronomy Associates in Applied Science program prepares students for entry-level positions in the following careers:
- Agronomy
- Soil science
- Plant science
- Farming and Livestock
- Sales
- Buyers and purchasing Agents for equipment, fertilizer and pesticides

Audio Technology

swic.edu/recording-tech

Coordinator/Faculty: Andrew Jensen, ext 5032
Email: Andrew.Jensen@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

Audio Technology Certificate (0097)

This certificate is available to any student interested in live audio production and an introduction to studio recording. It can be completed as an independent course of study or concurrently with any other degree plan. Students may receive the certificate after completion of the following coursework.

			Semester Credits
MUS	145	Audio Technology Orientation	3
MUS	154	Survey of Music Computer Technology	3
MUS	155	Survey of Music Computer Technology II	3
MUS	250	Basic Recording Techniques	3
MUS	251	Advanced Recording Techniques	3
MUS	252	Critical Listening in Audio	3
Total Credits			**18**

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Career Opportunities

Completion of the Audio Technology Certificate will prepare the graduate to work in the field of:

- Recording engineer
- Audio visual technician
- Music studio assistant
- Music business
- Music merchandising

Aviation Maintenance Technology

swic.edu/avmt

Coordinator: Matthew Harter, ext. 7145
Email: Matthew.Harter@swic.edu
Dean: Dr. Travis Jumper, ext. 7457
Email: Travis.Jumper@swic.edu

The Aviation Maintenance Technology program gives you the opportunity to obtain the FAA-approved Airframe and/or Powerplant Certificate in one year and an Associate in Applied Science degree with an additional semester of classes. The FAA-approved certificate allows you to take the FAA written, oral and practical tests in the General, Airframe, and Powerplant courses. Upon successful completion of the FAA tests, the FAA will issue a FAA Airframe and/or Powerplant License.

This program offers a one-year or two-year format. The one-year format allows you to obtain the A&P certificate (core courses) in 50 weeks (8 hours per day).The two-year format allows you to obtain the A&P certificate (core courses) in 100 weeks (4 hours per day). A student may complete the Associate in Applied Science degree by completing one additional semester of General Education Courses. **See the program coordinator or an academic advisor for more information.**

Articulation Agreements

SIU-Carbondale:

- BS Aviation Technologies-Aircraft Maintenance
- BS Aviation Technologies-Aviation Electronics
- BS Aviation Technologies-Helicopter Maintenance
- BS Aviation Technologies- Aircraft Maintenance
- BS Aviation Technologies-Maintenance Management

Associate in Applied Science Degree (0009)

Core Courses			**Semester Credits**
AVMT	121	Aircraft Systems I	3
AVMT	122	Aircraft Systems II	3
AVMT	126	Aircraft Structures I	3
AVMT	127	Aircraft Structures II	3
AVMT	131	Aircraft Electrical I	3
AVMT	132	Aircraft Electrical II	3
AVMT	136	Aircraft Components I	3
AVMT	137	Aircraft Components II	3
AVMT	140	Materials, Processes & Fabrication	3
AVMT	145	Basic Electricity & Technology	3
AVMT	150	Fundamentals & Operations	3
AVMT	155	Regulations & Science	3
AVMT	157	Propulsion Systems I	3
AVMT	158	Propulsion Systems II	3
AVMT	171	Powerplant Systems I	3
AVMT	172	Powerplant Systems II	3
AVMT	176	Powerplant Components I	3
AVMT	177	Powerplant Components II	3
AVMT	186	Reciprocating Engine Maintenance I	3
AVMT	187	Reciprocating Engine Maintenance II	3
Total AVMT Credits			**60**

General Education Courses			
ENG	101	Rhetoric & Composition I	3
Human Well-Being Elective(s)			2
Communications Elective			3
Human Relations Elective			3
Humanities **AND/OR** Social Science Elective			3
General Education Elective			1
Total General Education Credits			**15**

Total Program Credits	**75**

Airframe & Powerplant Certificate (009A)

AVMT	121	Aircraft Systems I	3
AVMT	122	Aircraft Systems II	3
AVMT	126	Aircraft Structures I	3
AVMT	127	Aircraft Structures II	3
AVMT	131	Aircraft Electrical I	3
AVMT	132	Aircraft Electrical II	3
AVMT	136	Aircraft Components I	3
AVMT	137	Aircraft Components II	3
AVMT	140	Materials, Processes & Fabrication	3
AVMT	145	Basic Electricity & Technology	3
AVMT	150	Fundamentals & Operations	3
AVMT	155	Regulations & Science	3
AVMT	157	Propulsion Systems I	3
AVMT	158	Propulsion Systems II	3
AVMT	171	Powerplant Systems I	3
AVMT	172	Powerplant Systems II	3
AVMT	176	Powerplant Components I	3
AVMT	177	Powerplant Components II	3
AVMT	186	Reciprocating Engine Maintenance I	3
AVMT	187	Reciprocating Engine Maintenance II	3
Total Credits			**60**

Airframe Certificate (009B)

AVMT	121	Aircraft Systems I	3
AVMT	122	Aircraft Systems II	3
AVMT	126	Aircraft Structures I	3
AVMT	127	Aircraft Structures II	3
AVMT	131	Aircraft Electrical I	3
AVMT	132	Aircraft Electrical II	3
AVMT	136	Aircraft Components I	3
AVMT	137	Aircraft Components II	3
AVMT	140	Materials, Processes & Fabrication	3
AVMT	145	Basic Electricity & Technology	3
AVMT	150	Fundamentals & Operations	3
AVMT	155	Regulations & Science	3
Total Credits			**36**

Powerplant Certificate (009C)

AVMT	140	Materials, Processes & Fabrication	3
AVMT	145	Basic Electricity & Technology	3
AVMT	150	Fundamentals & Operations	3
AVMT	155	Regulations & Science	3
AVMT	157	Propulsion Systems I	3
AVMT	158	Propulsion Systems II	3
AVMT	171	Powerplant Systems I	3
AVMT	172	Powerplant Systems II	3
AVMT	176	Powerplant Components I	3
AVMT	177	Powerplant Components II	3
AVMT	186	Reciprocating Engine Maintenance I	3
AVMT	187	Reciprocating Engine Maintenance II	3
Total Credits			**36**

Students must earn a grade of C or better in all AVMT courses to meet degree and certificate requirements.

Aviation Electronics (AVIONICS) Certificate (017E)

* Both courses are scheduled concurrently.

AVE	100	Mathematics for Avionics	3
AVE	101	Intro to AC Maint Practices	4

* Both courses are scheduled concurrently.

AVE	102	Intro to AC Elec and Elect	5
AVE	115	Aircraft / Avionics Elec Power	4

* Courses are scheduled in sequence.

AVE	131	Intro to Avionics Inst / Harness MFG	4
AVE	141	Avionics Installation Trends	4
AVE	159	VHF Nav and Comm Equip	4
AVE	166	Installer / Comm / Nav	4
AVE	167	Static / Trans / ADS-B Data	4
AVE	168	Instl GPS Nav & Elect Fit Sys	4
AVE	201	Autopilot/Auto Flight Systems	3
AVE	203	NCATT AET Test Prep	2
Total Credits			**45**

Avionics Courses

These courses are not part of the FAA-approved Airframe and Powerplant certificates, but are sometimes beneficial to those working in aviation fields.

AVE	131	Avionics Inst/ Harness MFG	4
AVE	141	Avionics Installation Trends	4

Other courses that may be of interest to AVMT students are: EET 260 and EET 264.

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog

Career Opportunities

The FAA license is necessary for the student to pursue career opportunities as a(n):

- Powerplant mechanic
- Airframe mechanic
- Combination airframe & powerplant mechanic (A&P mechanic)

Aviation Management

swic.edu/aviation-management

Coordinator/Faculty: Keith Mueller, ext. 5683
Email: Keith.Mueller@swic.edu
Dean: Dr. Travis Jumper, ext. 7457
Email: Travis.Jumper@swic.edu

The Aviation Management program provides students with an excellent foundation for a wide variety of well-compensated aviation-related career paths. The SWIC Aviation Management and Aviation Pilot Training programs have industry partnerships and internships available with locally based airlines to provide students with hands-on industry standard training and job placement.

The program includes an option to complete the Federal Aviation Administration-approved Aircraft Dispatcher certificate along with the associate degree in Aviation Management. Graduates of all SWIC Aviation AAS degree programs have the opportunity to transfer directly to the Southern Illinois University Carbondale Bachelor of Science degree in Aviation Management program. The SIUC classes are offered in a weekend format at the SWIC Belleville Campus. A masters degree in Aviation Management is also available.

Aviation management personnel work in a high-tech environment and are highly valued in many career paths within the aviation field. These roles include: aircraft dispatchers, air traffic control, airline operations, government flight operations, corporate aviation, airport operations, logistics, military aviation and manufacturing positions.

Aviation is a global industry and continues to expand significantly meeting the requirements of domestic and international air travel. Aviation is also a strategically vital link to national defense, the military and national security. The FAA forecasts that domestic air travel alone will increase to more than 1 billion passengers carried annually within the U.S. by domestic airlines by 2025. The expansion of international flight operations continues to grow at a similar rate to the domestic operation.

Contact the program coordinator or an academic advisor for additional information.

Articulation Agreements

- SIU-Carbondale – BS Aviation Management

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0008)

First Year

Fall Semester			**Semester Credits**
AVIA	101	Private Pilot Flight Theory**	4
AVIA	108	Aviation History	3
AVIA	122	Aircraft Systems and Components	2
AVIA	260	Aviation Meteorology**	3
ENG	101	Rhetoric & Composition I***	3
AVIA	133	Human Factors in Aviation	3
Total Semester Credits			**18**

Spring Semester			**Semester Credits**
AVIA	131	Air Traffic Control Systems**	3
AVIA	141	Federal Aviation Regulations & Law**	3
AVIA	160	Aviation Management I	3
ENG	103	Technical Communication Writing **OR** Communications Elective***	3
AVIA	233	Intro To Aviation Labor Law **OR**	
AVIA	201	Instrument Flight Theory**	4
Human Well-Being Elective			2
Total Semester Credits			**18**

Second Year

Fall Semester			**Semester Credits**
AVIA	105	Intro to Civil Aviation Ops & Safety **OR**	
AVIA	240	Aircraft Dispatcher Practical I**	3
AVIA	261	Aviation Management II	3
BUS	215	Business Law I **OR**	
AVIA	241	Aircraft Dispatcher Practical II**	3
AVIA	264	Management of Aircraft Maintenance	3
Math*			3
Total Semester Credits			**15**

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Spring Semester			**Semester Credits**
AVIA	266	Airport Planning and Management	3
AVIA	280	Internship	3
Human Relations Elective			3
PSYC	151	General Psychology	3
AVIA	237	Human Resources in Aviation	3
Total Semester Credits			**15**

Total Program Credits **66**

*GT 105 or Math 112 – Please check for transferability.
**Required for the Aircraft Dispatcher option
NOTE: AVIA 101, 131, 141, 201 and 260 must be completed prior to enrolling in AVIA 240 and AVIA 241
***STUDENTS TRANSFERRING TO SIUC: SWIC AAS Degree Students planning to complete the SIUC B.S. in Aviation Management program need to complete ENG 101 and **ENG 102 (instead of ENG 103)** for transferability as ENG 103 will not be accepted by SIUC as a transfer course from SWIC for the SIUC B.S. degree.
SWIC AAS Degree Students who transfer to SIUC as Capstone Students need to have completed ENG 101. For the Capstone option at SIUC, the ENG 102 course is not required.
For Communication requirements, students transferring to SIUC must take COMM 151, Fundamentals of Public Speaking. COMM 155, Interpersonal Communication **IS NOT transferrable** to SIUC.

Aircraft Dispatcher Certificate (008A)

First Semester			Semester Credits
AVIA	101	Private Pilot Flight Theory	4
AVIA	260	Aviation Meteorology	3

Second Semester			Semester Credits
AVIA	131	Air Traffic Control Systems****	3
AVIA	141	Federal Aviation Regulations & Law****	3
AVIA	201	Instrument Flight Theory	4

Third Semester			Semester Credits
AVIA	240	Aircraft Dispatcher Practical I	3
AVIA	241	Aircraft Dispatcher Practical II	3

Total Program Credits **23**

Program can be entered in the fall or spring semester.
****Courses can also be accomplished in first semester.

Aviation Pilot Training – Airplane

swic.edu/pilot-training

Coordinator/Faculty: Keith Mueller, ext. 5683
Email: Keith.Mueller@swic.edu
Dean: Dr. Travis Jumper, ext. 7457
Email: Travis.Jumper@swic.edu

SWIC offers a two-year curriculum leading to an Associate in Applied Science degree in Aviation Pilot Training. Options are available for either the Airplane (Fixed Wing) or Helicopter (Rotorcraft) program.

For Airplane, ground simulator programs are offered under FAR Part 141. The successful graduate holds a Commercial Pilot Certificate with Single-Engine, Multi-Engine and Instrument Rating.

A one-year Aviation Pilot Training certificate program is also available for airplanes. This program is designed to provide the minimum Federal Aviation Administration pilot certificates and ratings for students to obtain an entry-level position in commercial aviation.

The SWIC Aviation Pilot Training Airplane program is partnered through an airline industry professional agreement that provides students with an opportunity to obtain a direct path to an airline flight officer career.

For Helicopter, both ground and flight training programs are conducted under FAR Part 141. The successful graduate holds a Rotorcraft Commercial Pilot certificate with an Instrument Rating. An optional flight instructor certificate is also available.

Graduates of all SWIC Aviation AAS degree programs have the opportunity to transfer directly to the Southern Illinois University Carbondale Bachelor of Science degree in Aviation Management program. The SIUC classes are offered in a weekend format at the SWIC Belleville Campus.

Students should check the class schedules for times and locations, and check with the coordinator for current flight course fees.

Individual classes and simulator courses are available for each FAA flight rating on a space available basis.

Contact the program coordinator or an academic advisor for more information.

Articulation Agreements

- SIU-Carbondale – BS Professional Pilot

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0012)--Airplane

First Year

Fall Semester			Semester Credits
AVIA	101	Private Pilot Flight Theory (Airplane)	4
AVIA	102	Flight Training Private Part 1 (Airplane)	2
AVIA	103	Simulator Private (Airplane)	1
AVIA	122	Systems and Components	2
AVIA	260	Aviation Meteorology	3
ENG	101	Rhetoric & Composition I*	3
Total Semester Credits			**Airplane-15**

Spring Semester			Semester Credits
AVIA	104	Flight Training Private Part II (Airplane)	3
AVIA	131	Air Traffic Control Systems	3
AVIA	141	Federal Aviation Regulations & Law	4
AVIA	153	Simulator Intermediate (Airplane)	1
AVIA	201	Instrument Flight Theory (Airplane)	4
ENG	103	Technical Communications **OR** Communications Elective*	3
Total Semester Credits			**Airplane-17**

Summer Semester			Semester Credits
AVIA	202	Flight Training Instrument (Airplane)	3
AVIA	203	Simulator Instrument	1
GT	105	Intro to Technical Math **OR**	3
MATH	112	College Algebra *(Check for transferability)*	(4)
Total Semester Credits			**7(8)**

Second Year

Fall Semester			Semester Credits
AVIA	133	Human Factors in Aviation	3
AVIA	151	Commercial Pilot Flight Theory	3
AVIA	154	Flight Training Commercial Part I	3
Human Well-Being Elective			2
Humanities **OR** Social Science Elective			3
Total Semester Credits			**Airplane-14**

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Spring Semester			Semester Credits
AVIA	105	Intro to Civil Aviation Ops & Safety	3
AVIA	155	Flight Training Commercial II (Airplane)	2
AVIA	222	Transport Aircraft Systems (Airplane)	3
AVIA	269	Multi Engine Flight Theory	1.5
AVIA	270	Flight Training Multi-Engine (Airplane)	1
AVIA Elective -- Airplane			1
Human Well-Being Elective			2
Total Semester Credits			**Airplane-14.5**
Total Program Credits			**Airplane-67.5**

*__STUDENTS TRANSFERRING TO SIUC__: SWIC AAS Degree Students planning to complete the SIUC B.S. in Aviation Management program need to complete ENG 101 and **ENG 102 (instead of ENG 103)** for transferability as ENG 103 will not be accepted by SIUC as a transfer course from SWIC for the SIUC B.S. degree.
SWIC AAS Degree Students who transfer to SIUC as Capstone Students need to have completed ENG 101. For the Capstone option at SIUC, the ENG 102 course is not required.
For Communication requirements, students transferring to SIUC must take COMM 151, Fundamentals of Public Speaking. COMM 155, Interpersonal Communication **IS NOT transferrable** to SIUC.

Aviation Pilot Training – Helicopter

swic.edu/pilot-training

Coordinator/Faculty: Keith Mueller, ext. 5683
Email: Keith.Mueller@swic.edu
Dean: Dr. Travis Jumper, ext. 7457
Email: Travis.Jumper@swic.edu

SWIC offers a two-year curriculum leading to an Associate in Applied Science degree in Aviation Pilot Training.

Options are available for either the Airplane (Fixed Wing) or Helicopter (Rotorcraft) programs.

Helicopter ground and flight training programs are conducted under C.F.R. Part 141 through an agreement with Ideal Aviation.

Airplane ground, simulator, and flight training programs are offered under C.F.R. Part 141 through SWIC. The flight segment is offered through an agreement with Ideal Aviation.

Graduates of all SWIC Aviation AAS degree programs have the opportunity to transfer directly to the Southern Illinois University Carbondale Bachelor of Science degree in Aviation Management program. The SIUC classes are offered in a weekend format at the SWIC Belleville Campus.

Students should check the class schedules for times and locations, and check with the coordinator for current flight course fees.

Individual classes and simulator courses are available for each FAA flight rating on a space available basis.

Contact the program coordinator or an academic advisor for more information.

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0012)--Helicopter

First Year

Fall Semester			**Semester Credits**
AVIA	111	Private Pilot Flight Theory Helicopter	3
AVIA	112	Flight Training Private Part 1 Helicopter	2
AVIA	113	Simulator Private Helicopter	1
AVIA	260	Aviation Meteorology	3
ENG	101	Rhetoric & Composition I*	3
AVIA	122	Systems and Components	2
Total Semester Credits			**Helicopter-15**

Spring Semester			**Semester Credits**
AVIA	114	Flight Training Private Helicopter Part II	2-3
AVIA	211	Instrument Flight Theory Helicopter	**3**
ENG	103	Technical Communications **OR**	3
Communications Elective*			
AVIA	163	Simulator Intermediate Helicopter	1
AVIA	131	Air Traffic Control Systems	3
GT	105	Intro to Technical Math **OR**	3
MATH	112	College Algebra *(Check for transferability)* (4)	
Total Semester Credits			**Helicopter-15**

Summer Semester			**Semester Credits**
AVIA	212	Flight Training Instrument Helicopter	3
AVIA		Elective Helicopter	1
AVIA	161	Commercial Pilot Flight Theory Helicopter	3
Total Semester Credits			**Helicopter -7**

Second Year

Fall Semester			**Semester Credits**
Humanities **OR** Social Science Elective			3
AVIA	133	Human Factors in Aviation	3
AVIA	263	Flight Training Commercial Helicopter Part I	2
AVIA		Electives Helicopter	6
Total Semester Credits			**Helicopter-14**

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Spring Semester			**Semester Credits**
AVIA	265	Flight Training Commercial Helicopter Part II	2
		AVIA Elective -- Helicopter	6
		Human Well-Being Elective	2
		Human Relations Elective	3
Total Semester Credits			**Helicopter-13**

Total Program Credits			**Helicopter-63**

*__STUDENTS TRANSFERRING TO SIUC__: SWIC AAS Degree Students planning to complete the SIUC B.S. in Aviation Management program need to complete ENG 101 and **ENG 102 (instead of ENG 103)** for transferability as ENG 103 will not be accepted by SIUC as a transfer course from SWIC for the SIUC B.S. degree.
SWIC AAS Degree Students who transfer to SIUC as Capstone Students need to have completed ENG 101. For the Capstone option at SIUC, the ENG 102 course is not required.
For Communication requirements, students transferring to SIUC must take COMM 151, Fundamentals of Public Speaking. COMM 155, Interpersonal Communication **IS NOT transferrable** to SIUC.

Airplane Core Course: AVIA 101, AVIA 102, AVIA 103, AVIA 104, AVIA 201, AVIA 153, , AVIA 151, AVIA 154, AVIA 155, AVIA 202, AVIA 203, AVIA 222 AVIA 269, AVIA 270

Helicopter Core Courses: AVIA 111, AVIA 112, AVIA 113, AVIA 114, AVIA 211, AVIA 163, AVIA 212, AVIA 161, AVIA 263 and AVIA 265. Elective courses AVIA 271, AVIA 272, AVIA 273 and AVIA 274 are taught by Midwest Helicopter.

Aviation Electives

Airplane or Helicopter electives – not all courses are available every semester. Several are part of the AAS degree in Aviation Management program and are offered on a rotational basis.

Course			**Semester Credits**
AVIA	105	Intro to Civil Aviation Ops & Safety	3
AVIA	108	Aviation History	3
AVIA	126	UAS Pilot Certification	1
AVIA	141	Federal Aviation Regulations & Law	3
AVIA	160	Aviation Management I	3
AVIA	240*	Aircraft Dispatcher Practical I	3
AVIA	241*	Aircraft Dispatcher Practical II	3
AVIA	261	Aviation Management II	3
AVIA	262	High Altitude Meteorology	3
AVIA	264	Management of Aircraft Maintenance	3
AVIA	266	Airport Planning and Management	3
AVIA	280	Internship	3

*Applied to Fixed Wing Only

Helicopter Electives (Available all Semesters)			
AVIA	271	Flight Instructor Helicopter Theory	3
AVIA	272	Flight Training Helicopter Instructor	2
AVIA	273	Flight Instructor Helicopter Instrument Theory	2
AVIA	274	Flight Training Helicopter Instrument Instructor	1

ALL FEDERAL AND STATE VETERAN STUDENTS SHOULD CONSULT WITH THE SWIC VETERANS SERVICES OFFICE BEFORE ENROLLING IN ANY AVIATION COURSES.

Certificate Programs

Aviation Pilot Training Certificate (012A)

Fall Semester			**Semester Credits**
AVIA	101	Private Pilot Flight Theory	4
AVIA	102	Flight Training Private Part I	2
AVIA	103	Simulator Private	1
AVIA	104	Flight Training Private Part II	3
AVIA	260	Aviation Meteorology	3
Total Semester Credits			**13**

Spring Semester			**Semester Credits**
AVIA	133	Human Factors in Aviation	3
AVIA	151	Commercial Pilot Flight Theory	3
AVIA	153	Simulator Intermediate	1
AVIA	154	Flight Training Commercial I	3
AVIA	201	Instrument Flight Theory	4
AVIA	269	Multi-Engine Flight Theory	1.5
Total Semester Credits			**15.5**

Summer Semester			**Semester Credits**
AVIA	155	Flight Training Commercial II	2
AVIA	202	Flight Training Instrument	3
AVIA	203	Simulator Instrument	1
AVIA	270	Flight Training Multi-Engine	1
Total Semester Credits			**7**

Total Program Credits			**35.5**

Private Pilot Certificate (012F)

An individual certificate is available for Private Pilot. A certificate will be issued upon completion of:

AVIA	101	Private Pilot Flight Theory	4
AVIA	102	Flight Training Private Part I	2
AVIA	103	Simulator Private	1
AVIA	104	Flight Training Private Part II	3
AVIA	260	Aviation Meteorology	3
Total Program Credits			**13**

Notice:
Check class schedule for aviation fees in effect at the time of your registration.
Flight courses AVIA 102, 104, 154, 155, 202, 252, 254, 255, 270 and 292 are not taught by SWIC, but are available for course credit for the AAS degree. Flight courses are offered by area training facilities.

Additional Simulator Courses:

AVIA	205	Garmin GNS 430 VFR Operations
AVIA	207	Garmin G 1000 System Training
AVIA	208	Simulator-Garmin GNS 1000 VFR
AVIA	209	Simulator-Garmin GNS 1000 IFR
AVIA	213	Instrument Training-Part I
AVIA	216	Advanced Instrument Approaches
AVIA	217	Instrument Departures and Arrivals
AVIA	220	Instrument Currency and Review

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog

Career Opportunities

A graduate of the Aviation Pilot Training program is prepared to work as a(n):

- Airplane pilot, commercial airlines
- Airplane pilot, private
- Corporate pilot
- Flight instructor
- Agricultural pilot
- Aerial mapping
- Aircraft charter pilot

Business Administration

swic.edu/business-administration
Department Chair: Dawn Peters, ext. 5487
Dean: Darrell Robin, Ed.D., ext. 5227, Darrell.Robin@swic.edu

Students enrolled in the Business Administration in Applied Science program will complete specialized course work from one of the following subplans: Management, Marketing, Esports Management, Human Resources or Office Technology. This curriculum will provide students with the knowledge and skills necessary to be successful in the advancement of an existing career or to gain entry-level employment in a variety of business-related fields. Participants in this program will be provided a learning environment designed to

- Enhance critical thinking and problem-solving skills
- Increase use and knowledge of business technology
- Promote effective communication in a business environment

The courses required for the degree are listed below. This is a sample schedule. Course availability will vary from semester to semester. Contact an academic advisor or the program coordinator for more information including the master schedule.

Articulation Agreements

SIU-Carbondale:

- BA Economics
- BS Business Administration
- BS Business Analytics
- BS Finance
- BS Marketing
- BS Management

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0079)

First Year

Fall Semester			**Semester Credits**
ACCT	110	Financial Accounting	4
BUS	101	Introduction to Business	3
OAT	175	Electronic Spreadsheets	3
MGMT	214	Principles of Management	3
MKT	126	Introduction to Marketing	3
Total Semester Credits			**16**

Spring Semester	**Semester Credits**
Management, Marketing, Esports, Human Resources, or Office Technology Sub Plan	3
Human Well-Being Elective	2
BUS 240 Ethics in the Workplace	3
ENG 101 Rhetoric & Composition I	3
ACCT 111 Managerial Accounting*	4
Total Semester Credits	**15**

Second Year

Fall Semester	**Semester Credits**
Management, Marketing, Esports, Human Resources, or Office Technology Sub Plan	9
BUS 102 Business Mathematics	3
BUS 215 Business Law	3
Total Semester Credits	**15**

Second Year

Spring Semester	**Semester Credits**
Management, Marketing, Esports, Human Resources, or Office Technology Sub Plan	6
BUS 209 Business Computer Systems	3
BUS 241 Fundamentals of Finance	3
BUS 261 Business Communications	3
Total Semester Credits	**15**
Total Program Credits	**61**

Business Administration Sub Plans

(Select one of the following plans. Courses listed in suggested order.)

Management			**Semester Credits**
PARL	200	Dispute Resolution (spring only)	3
MGMT	217	Human Resource Management	3
MGMT	219	Small Business Management	3
BUS	220	Data Analytics for Business (fall only)	3
MGMT	270	Business Planning (spring only)	3
MGMT	213	Human Relations in the Workplace	3
Total Credits			**18**

Marketing			**Semester Credits**
CIS	168	Graphic Design	3
CIS	171	Computer Graphics	3
CIS	172	Photo Manipulation	3
MKT	226	eMarketing	3
MKT	227	SEO & Web Analytics for Marketing (spring only)	3
MKT	228	Social Media Tools (fall only)	3
Total Credits			**18**

Esports Management			**Semester Credits**
ESM	100	Intro to Esports Management	3
ESM	150	Contemporary Issues in Esports	3
ESM	200	Esports Management I	3
ESM	205	Esports Event and Facility Management	3
ESM	210	Competitive Gaming, Culture and Performance	3
ESM	215	Esports Coaching and Athlete Development	3
Total Credits			**18**

Human Resources			**Semester Credits**
PSYC	223	Organizational Leadership	3
MGMT	217	Human Resource Management	3
PARL	200	Dispute Resolution Skills (spring only)	3
PARL	285	Employment Law (fall only)	3
BUS	220	Data Analytics for Business (fall only)	3
MGMT	213	Human Relations in the Workplace	3
Total Credits			**18**

Office Technology			**Semester Credits**
OAT	171	Document Processing/Input Technology (fall only)	3
OAT	180	Word Processing	3
OAT	156	Microsoft Office Suite I	3
ACCT	106	Introduction to QuickBooks	3
OAT	280	Virtual Office Technologies (spring only)	3
MKT	227	SEO & Web Analytics for Marketing (spring only)	3
Total Credits			**18**

*ACCT 111 – It is recommended that this class be taken the semester following the successful completion of ACCT 110.

Civil Engineering Technology

Coordinator/Faculty: Brandon McGraw
Email: Brandon.Mcgraw@swic.edu
Dean: Dr. Travis Jumper, ext. 7457
Email: Travis.Jumper@swic.edu

The Civil Engineering Technology program prepares students with skills necessary for employment as a civil engineering technician. Employment opportunities include consulting engineering firms, testing laboratories, highway constructors, utilities and local, state and federal governmental agencies. Learning emphasis is placed on activities related to civil construction including; surveying, materials testing/ quality control, drafting and construction inspection. This career path offers opportunities that include a balance between indoor and outdoor work common in the construction industry.

This program prepares students for a rewarding career with diverse opportunities in the growing field of civil engineering.

Associate in Applied Science Degree (036D)

First Year

Fall Semester			**Semester Credits**
CET	100	Introduction to Construction	3
ENGR	103	Engineering Graphics	4
CET	102	Print Reading for Civil Construction	3
CMT	106	Mathematics for Construction	4
COMM	155	Interpersonal communication	3
Total Semester Credits			**17**

Spring Semester			
CET	156	Soils and Aggregates	3*
CMT	244	Occupational Safety & Health	3
CMT	105	Computer Applications for Construction	3
CET	145	Surveying Fundamentals	3
General Education Selection			3
Total Semester Credits			**15**

Second Year

Fall Semester			
CET	200	Civil Construction	3
CET	210	Civil 3D Construction	4
CET	157	PCC Theory and Design	2
CET	158	Asphalt Theory and Design	2
CET	205	Boundary Surveying	3
HES	152	First Aid Medical Self Help	2
Total Semester Credits			**16**

Spring Semester			
CET	150	Internship	3
Technical Elective			3
CET	245	Data Collection for GIS Mapping	3
Human Relations Selection			3
Total Semester Credits			**12**

Total Program Hours	**60**

Technical Electives			
CMT	145	Building Trades Craft Survey I	4
CMT	146	Building Trades Craft Survey II	4
any CMT Course			1-4

Career Opportunities

Graduates can pursue careers in the following areas:

- **Civil Engineering Technician**: Assisting engineers in designing, planning, and constructing infrastructure projects.
- **Surveyor Assistant**: Supporting surveying teams in measuring and mapping land for construction projects.
- **Materials Testing Technician**: Conducting tests on construction materials such as concrete, asphalt, and soil to ensure they meet quality and safety standards.
- **Construction Inspector**: Inspecting construction sites to ensure that work complies with regulations, safety standards, and project specifications.
- **Highway Construction Worker**: Working with teams to build and maintain highways and roadways.
- **Utility Technician**: Assisting with the construction, maintenance, and repair of utility systems such as water, sewer, and electrical grids.
- **Governmental Agency Positions**: Working with local, state, or federal agencies to support infrastructure development and maintenance projects.

Community Health Worker

Coordinator/Faculty: Shameka Davis, ext. 5496
Email: Shameka.Davis@swic.edu
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu
Administrative Assistant: Candice Rodgers, ext. 5355

The SWIC Community Health Worker program prepares students with the skills necessary to become a certified community health worker, prepared to work in a variety of healthcare settings including hospitals, clinics, and health agencies. Community Health Workers develop programs to teach clients about conditions affecting human well-being. Community Heath Workers promote wellness individually and as a community by educating clients to adopt healthy behaviors. For further information regarding Community Health Workers, refer to the Occupational Outlook Handbook at https://www.bls.gov/ooh/community-and-social-service/community-health-workers.htm

About the Program

- One-semester certificate program
- Offered: Fall and Spring semesters
- Enroll in March for Fall classes, and October for Spring classes
- To enroll, students must have a high school diploma or GED. Students must be eligible for ENG 100/ENG 101 or ENG 101 and math placement into MATH 97 or higher.

The program is designed to include online classroom education and clinical experience in a healthcare setting.

Certification Requirements

Upon successful completion of the Community Health Worker curriculum, graduates are awarded a certificate as a Community Health Worker.

Enrollment Requirements

To enroll in Community Health Worker courses, students must demonstrate readiness for college-level English and Math. Students must show proof of high school transcript or GED. English placement into ENG 100/ENG 101 OR ENG 101 and math placement

Students should be aware they must pass a criminal background check and drug testing to participate in required clinical experience courses. Additionally, students must present current vaccination records meeting the program's contracted clinical site requirements.

Program Capacity

The Community Health Worker program has capacity for approximately 20 students admitted each Fall and Spring semester. Seats are available dependent on clinical availability.

Program Location

The Community Health Worker program consists of CHW prefix courses and assigned clinical internships. Specific locations depend on the course.

1. The CHW courses are offered online
2. The CHW 110 Clinical Experiences may be scheduled

during the day, evening, night, and/or weekends at hospital, clinic, or privately owned facilities throughout Illinois and in the St. Louis region. Students may be required to travel outside of the college district for clinical practicum courses. Specific clinical placement cannot be guaranteed, and specific clinical schedules may be changed during courses. Students are responsible for their own transportation and attendance to any of the classes and clinical practicums assigned by the program.

Orientation & Performance

Students must attend the required orientation session prior to program start, meet program-specific medical requirements, be able to perform the essential functions of the job as listed in the Student Handbook or at swic.edu with reasonable accommodations if needed, and submit results of a background check, drug screen, physical examination, and the required immunizations by the required date as presented in the orientation session. Any applicants or enrolled students are encouraged to contact the Student Accessibility & Support Services at 618-235-2700, ext. 5368, to discuss potential issues associated with meeting these requirements. Other program-specific restrictions may apply.

Health Insurance

Health insurance is required during clinical Community Health Worker courses. Students are personally responsible for any costs incurred for injuries occurring during clinical experiences in their role as a student.

Medical/Health Requirements

Admitted students will be required to show proof of immunizations, tuberculosis test, and physical examination before beginning any clinical experience. These requirements do not have to be fulfilled until after the program orientation but must be fulfilled by the required deadline.

Background Checks and Drug Testing

Criminal background check, random drug test and name search on government registries which prohibit employment in health care professions are required. Program start is contingent upon meeting deadlines for completion of the screening and results which allow the student to participate in the clinical portion of the program. Details and directions for accessing and purchasing online screening for background checks are shared with accepted students. Background checks are conducted for every state in which the student has worked or resided since the age of 18 years. Conviction of offenses in the following areas normally prohibit the student from participation in the clinical portion of the program and will result in program dismissal: assault, sexual offenses, murder, burglary, arson, and robbery. Refer to the Health Care Worker Background Check Act for a complete list of offenses at: www.idph.state.il.us/nar/.

To participate in the clinical portion of the program, students with "disqualifying" offense(s) will be asked to produce a waiver from the Illinois Department of Public Health for identified offenses. To request a waiver application from IDPH, students may call 217-785-5133. Not all clinical sites accept the IDPH waiver (i.e. Missouri sites), therefore required clinical sites are also surveyed to determine if clinical placement can be accomplished. If a waiver cannot be produced prior to clinicals/program start or survey results indicate clinical sites prohibit the conviction, the student will be removed from the program.

In addition, positive results from the drug test or student listing on prohibitory government registry will also result in dismissal from the program. Note: Positive drug testing results from the use of illegal drugs or prescription medication for which the student does not have a prescription. Medical marijuana, which is not FDA approved, is also considered a positive drug testing result. Dismissal for positive criminal background check, drug test, or listing on a government registry does not qualify students for refund of tuition or lab fees. Students who have concerns regarding their status with the above regulations are encouraged to discuss the matter with the program coordinator or the administrative assistant prior to seeking admission.

Graduation Requirements

Students enrolled to the program must follow course requirements for graduation at the time they are admitted and must meet all course, program, certification, and sequencing requirements specified. Posted changes in course requirements are applicable to all newly admitted students. Students are responsible for program policies as listed in the Community Health Worker Student Handbook. Students must complete the curriculum within 150 percent of initial enrollment. A grade of C is the minimum grade acceptable for ALL courses in the Community Health Worker curriculum.

Community Health Worker Certificate (025E)

Fall or Spring Semester			Semester Credits
HMS	100	Intro to Human Services	3
HRO	150	Fundamentals of Nutrition	2
CHW	102	Public Health Client Care	1
CHW	104	Chronic Disease Management	2
CHW	106	Beahavioral and Mental Health	2
CHW	108	Maternal and Infant Health	2
CHW	110	Clinical Experience	4
Total Semester Credits			**16**

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Career Opportunities

Community Health Workers may be employed in hospitals, local health departments, community-based organizations, social service agencies, nonprofit organizations, faith-based organizations, behavioral health organizations, and community health centers.

Average Salary

According to the U.S. Bureau of Labor Statistics Occupational Outlook Handbook, the median wage for Community Health Workers in May 2023 was $48,2000 with a 10 percent growth outlook from 2023-2033. Hourly and salary ranges can vary dependent on hiring facility and demographics.

Commercial Maintenance Mechanics

swic.edu/cmm

Coordinator: Nicholas Weatherly, ext. 7305
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Dean: Dr. Travis Jumper, ext. 7457
Email: Travis.Jumper@swic.edu

The Commercial Maintenance Mechanics program prepares students with the skills and experience necessary to enter the workforce as entry-level technicians in a commercial facility. Students will learn multiple disciplines which include machining, pipefitting, construction, HVAR and electricity. Commercial maintenance mechanics maintain and repair a variety of equipment used in many different facilities such as hospitals, hotels, office buildings, schools and commercial businesses. Because commercial facilities cannot hire specialists for each trade, commercial maintenance technicians are hired to keep the facilities running.

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (053K)

Program Requisite			Semester Credits
PMT	100	Precision Machining Introduction	.5
EET	100	Electrical Orientation	.5

First Year

Fall Semester			Semester Credits
PMT	101	Intro to the Machine Trades	3
GT	104	Math for Electronics	3
EET	101	Intro to Electricity/Electronics	3
EET	102	Principles of Magnetism & AC	3
IML	119	Mechanical Systems	3
IML	120	Mechanical Blueprint Reading I	2
Total Semester Credits			**18**

Spring Semester			Semester Credits
HVAR	100	Fitting, Fusion and Fabrication	4
HVAR	101	Refrig. & A.C. Principles I	4
HVAR	103	Basic Electrical Controls & Systems	4
IML	133	Rigging (Industrial)	2
ENG	101	Rhetoric & Composition I	3
Total Semester Credits			**17**

Summer Semester

HES	152	First Aid-Medical Self Help	2

Second Year

Fall Semester			Semester Credits
IDP	116	Industrial Pipefitter A	3
EET	243	NEC for Industrial/Commercial	3
EET	131	Electrical Wiring Principles	3
EET	200	Digital Electronic Circuits I	3
Communications Course elective			3
Social Science Course elective			3
Total Semester Credits			**18**

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Spring Semester			Semester Credits
EET	235	Programmable Logic Controllers	3
HVAR	153	Heating Fundamentals	4
HVAR	202	Commercial Refrigeration	4
Human Relations Course elective			3
Total Semester Credits			**14**

Total Program Credits **69**

Commercial Maintenance Mechanics Certificate (054K)

EET	100	Electrical Orientation	.5
PMT	100	Precision Machining Intro	.5
PMT	101	Intro to the Machine Trades	3
IML	119	Mechanical Systems	3
IDP	116	Industrial Pipefitter A	3
GT	104	Math for Electronics	3
EET	101	Intro to Electricity and Electronics	3
EET	102	Principles of Magnetism & AC	3
EET	243	NEC for Industrial/Commercial	3
EET	131	Electrical Wiring Principles	3
HVAR	100	Fitting, Fusion and Fabrication	4
HVAR	101	Refrig. & A.C. Principles I	4
HVAR	103	Basic Electrical Controls & Systems	4
HVAR	202	Commercial Refrigeration I	4
Total Credits			**41**

Career Opportunities

Graduates of the Commercial Maintenance Mechanics program will have many opportunities with a wide variety of companies. A graduate of the Commercial Maintenance Mechanics program is prepared to work as a:

- Plant maintenance mechanic
- Heating, air conditioning and refrigeration technician
- Facilities maintenance technician

Computer Aided Design

swic.edu/cad

Coordinator: Cynthia Bednara, ext. 5376
Email: Cynthia.Bednara@swic.edu
Dean: Dr. Travis Jumper, ext. 7457
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The Computer Aided Design program develops the skills that will prepare students for employment as CAD operators. The houses we live in, the buildings we work in, the cars we drive, or the roads we drive on, all started as concepts. The role of the computer aided design drafter is to communicate by way of pictorial drawings the concepts of engineers and architects.

The CAD program is Curriculum Certified through the American Design Drafting Association International. This certification provides recognition in the areas of design drafting and signifies to employers that the SWIC CAD program meets the standards established and approved by an international organization for designers, drafters, architects, illustrators, and technical artists.

Students who wish to complete the architectural/structural detail specialization or mechanical specialization are required to complete the Certified Drafter Architectural/Mechanical exam. Exam for the architectural specialization should be taken during the last semester of the two-year program. The mechanical specialization exam can be taken after completing the first four drafting courses in the program (CAD 120 Introductory CAD, CAD 101 Basic Drafting, CAD 102 Intermediate Drafting and CAD 200 Manufacturing Processes & CAD Drawings). Students interested in the Structural Detail Specialization will be required to take the ADDA Mechanical exam.

Professional certification through the ADDA allows CAD operators to show their knowledge of drafting concepts and nationally recognized standards and practices. Becoming a Certified Drafter enhances credibility as a professional and gives a competitive edge in the workforce. ADDA membership is not required in order to take the exam or to become a Certified Drafter. For more information about ADDA, visit www.adda.org.

The CAD program offers a specialization in General, Architecture, Structural Detail **OR** Machine drafting. After completing the first year of requirements, the student may select to specialize in one of the four areas. Under each specialization area is listed the courses required to complete the degree.

See the program coordinator or an academic advisor for more information.

Articulation Agreements

- SIUC – B.S. Industrial Management and Applied Engineering Quality Management

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0035)

First Year

Fall Semester			Semester Credits
CAD	120	Introduction to AutoCAD	4
CAD	101	Introduction to Drafting & Design	3
ENG	101	Rhetoric & Composition I	3
GT	105	Intro to Technical Math* **OR**	3
MATH	112	College Algebra (4)	
Total Semester Credits			**13**

Spring Semester			Semester Credits
CAD	102	Intermediate Drafting & Design	4
CAD	220	Advanced CAD I	3
Humanities **OR** Social Science Elective			3
COMM	151	Fundamentals of Public Speaking **OR**	3
COMM	155	Interpersonal Communication	
Total Semester Credits			**13**

Summer Semester			Semester Credits
CAD	292	Supervised Internship III*	3
Human Well-Being Course			2
Total Semester Credits			**5**

Second Year

Fall Semester			Semester Credits
CAD	221	Advanced CAD II	3
CAD Specialization Design Courses (choose from list)			12
Total Semester Credits			**15**

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Spring Semester	Semester Credits
CAD Specialization Design Courses (choose from list)	11
CAD Certification Post Assessment**	1
Human Relations Course Elective	3
Total Semester Credits	**15**

Total Program Credits **61**

*GT 105 does not transfer to a four-year program; if planning to transfer, the student should take MATH 112 College Algebra, if possible.

**choose at least one from list; if a student wishes to complete more than one, the Post Assessment Course Options are also listed under the Specialization design Courses and may be used to fulfill those requirements.)

CAD Certification Post Assessment Course Options

CAD	222	AutoCAD Certification Post Assessment	1
CAD	223	Fusion Certification Post Assessment	1
CAD	224	Inventor Certification Post Assessment	1
CAD	231	Revit Certification Post Assessment	1

CAD Specialization Design Courses

CAD	100	Print Reading for Technical Trades	3
CAD	200	Manufacturing Processes **OR**	4
CAD	201	Introduction to Architectural Design with 3D	4
CAD	203	Introduction to Civil Engineering Design	3
CAD	204	Manufacturing Design	3
CAD	206	E & I Drafting	3
CAD	222	AutoCAD Certification Post Assessment	1
CAD	223	Fusion Certification Post Assessment	1
CAD	224	Inventor Certification Post Assessment	1
CAD	225	MicroStation CAD	3
CAD	226	Intro to Geo Dim & Tolerance (GD&T)	3
CAD	230	Advanced 3D Architectural Design	3
CAD	231	Revit Certification Post Assessment	1
CAD	290	Supervised Internship I	1-6
CAD	291	Supervised Internship II	1-6
CMT	103	Construction Materials and Methods I	3
ENGR	251	Surveying Fundamentals	3
PMT	231	Introduction to SOLIDWORKS(R)	

CAD Certificate (035D)

CAD	101	Introduction to Drafting & Design	3
CAD	102	Intermediate Drafting & Design	4
CAD	120	Introduction to AutoCAD	4
CAD	201	Introduction to Architectural Design with 3D	4
CAD	220	Advanced CAD I	3
CAD	221	Advanced CAD II	3
CAD	225	MicroStation CAD	3
CAD	226	Intro to Geo Dim & Tolerance (GD&T)	3
MATH	112	College Algebra (4) **OR**	
GT	105	Intro to Technical Mathematics	3
CAD	222	AutoCAD Certification Post Assessment	1
CAD	223	Fusion Certification Post Assessment	1
CAD	224	Inventor Certification Post Assessment	1
Total Credits			**33**

Career Opportunities

More than 90 percent of the SWIC Computer Aided Design graduates find drafting technology jobs with career opportunities such as:

- Mechanical design drafter
- Junior drafter (entry-level position)
- Drafting technician (education and experience)
- Design drafter (advanced education and experiences)
- CAD operator

SWIC graduates pursue a range of drafting and design fields from manufacturing, to civil, to electrical and instrumentation, to pipe, to structural drafting.

SWIC graduates are employed by companies such as Anheuser-Busch InBev, Monsanto, Sverdrup Corp., IDOT and Ameren.

Computer Information Systems

swic.edu/cis

For more computer classes, see:
Cybersecurity and Networking
Marketing & Graphic Communications

Coordinator/Faculty: Nikki Hensley, ext. 5382
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Dean: Darrell Robin, Ed.D., ext. 5227
Email: Darrell.Robin@swic.edu

The Computer Information Systems program offers an Associate in Applied Science degree for software development, web development, web design and IT service and support. The program provides the technical skills and knowledge required for effective programming development needs in the business environment.

Articulation Agreements

- SIU-Carbondale – BS Information Technology

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degrees

Computer Information Systems (0010)

First Year

Fall Semester			**Semester Credits**
CIS	174	Web Fundamentals I	3
CIS	180	Introduction to Programming	3
CIS	185	Introduction to Information Technology	3
CIS	195	Introduction to Databases	3
ENG	101	Rhetoric & Composition I	3
Human Well-Being Elective			2
Total Semester Credits			**17**

Spring Semester			**Semester Credits**
CIS	177	Web Development I	3
Communications Elective			3
Computer Information Systems Sub Plan			9-10
Total Semester Credits			**15-16**

Second Year

Fall Semester			**Semester Credits**
CIS	212	Web Development II	3
Humanities or Social Science Elective			3
Computer Information Systems Sub Plan			9
Total Semester Credits			**15**

Spring Semester			**Semester Credits**
CIS	297	CIS Internship **OR**	
BUS	261	Business Communications	3
Human Relations Elective			3
Computer Information Systems Sub Plan			7-9
Total Semester Credits			**13-15**
Total Program Credits			**60-63**

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Computer Information Systems Sub Plans

Select one of the following plans:

Software Development

MATH	112	College Algebra	4
CIS	165	Python Programming	3
CIS	178	Administrative Scripting	3
CIS	246	Systems Development and Design	3
CIS	252	C# Programming I	3
CIS	262	C# Programming II	3
CIS	263	Data Access	3
CIS	264	ASP	3
CIS	275	SQL	3

Web Development

CIS	187	Web Programming I	3
CIS	256	Web Server Programming I	3
CIS	259	Current Web/Graphic Technology	3
CIS	274	R Programming	3
CIS	275	SQL	3
CIS	277	Web Technologies	3
CIS	287	Web Programming II	3
CIS	288	Web Server Programming II	3
NETW	101	Introduction to Networking	3

Web Design

CIS	147	Fonts & Types	3
CIS	168	Graphic Design **OR**	
ART	111	Basic Design	3
CIS	171	Computer Graphics	3
CIS	172	Photo Manipulation I	3
CIS	173	Animation	3
CIS	230	Video Graphics	3
CIS	257	Electronic Publishing	3
CIS	273	Advanced Graphics & Animation	3
MKT	126	Introduction to Marketing	3

IT Service & Support

OAT	128	Microsoft Outlook	1
OAT	156	Microsoft Suite I	3
OAT	171	Document Processing/Input Technology	3
OAT	175	Electronic Spreadsheets	3
OAT	180	Word Processing	3
OAT	280	Virtual Office Technologies	3
NETW	101	Introduction to Networking	3
NETW	188	Windows Server I	3
NETW	271	Network Security	3

Accelerated Degree Option

Anyone who has completed an associate or bachelor's degree from a regionally accredited college may earn an Associate in Applied Science degree in Computer Information Systems (0010) by completing at least 27 semester credits of program-related coursework. A plan of specific courses required for the degree must be obtained from the program coordinator and approved by the dean and the chief academic officer. Only those courses completed at SWIC, and not included as part of the requirements for a previously earned degree or certificate, can be considered for this option. Students must meet all institutional requirements for the Associate in Applied Science degree.

Certificate Programs

Software Development (010D)

Students completing the Software Development Certificate will learn the technical skills and knowledge to handle object-oriented programming to construct software applications. Emphasis will be placed on various software development tools to develop platform independent applications written in one or more object-oriented programming languages.

CIS	174	Web Fundamentals I	3
CIS	177	Web Development I	3
CIS	180	Introduction to Programming	3
CIS	195	Introduction to Databases	3
CIS	212	Web Development II	3
CIS	246	Systems Development & Design	3
CIS	252	C# Programming I	3
CIS	262	C# Programming II	3
CIS	264	ASP	3
CIS	275	SQL	3
Total Credits			**30**

Web Development (011D)

Students completing the Web Development Certificate will learn software and coding principles required to construct websites. Emphasis will be placed on good coding skills in HTML, JavaScript and object-oriented programming languages.

CIS	174	Web Fundamentals I	3
CIS	177	Web Development I	3
CIS	180	Introduction to Programming	3
CIS	187	Web Programming I	3
CIS	195	Introduction to Databases	3
CIS	212	Web Development II	3
CIS	256	Web Server Programming I	3
CIS	274	R Programming **OR**	
CIS	277	Web Technologies	3
CIS	287	Web Programming II **OR**	
CIS	288	Web Server Programming II	3
Total Credits			**27**

Web Design (011E)

Student completing the Web Design Certificate will learn how to build interactive websites using industry-standard tools and languages, making them highly competitive in the field of web design and development. Emphasis will be placed on Adobe Products, JavaScript, HTML and front-end development.

CIS	147	Fonts & Types	3
CIS	168	Graphic Design **OR**	
ART	111	Basic Design	3
CIS	171	Computer Graphics	3
CIS	172	Photo Manipulation I	3
CIS	173	Animation	3
CIS	230	Video Graphics	3
CIS	257	Electronic Publishing	3
CIS	273	Advanced Graphics & Animation	3
MKT	126	Introduction to Marketing	3
Total Credits			**24**

Office Technology (033A)

Students completing the Office Technology Certificate will learn hands-on training in essential office typing and Microsoft Office applications.

CIS	185	Introduction to Information Technology	3
OAT	128	Microsoft Outlook	1
OAT	156	Microsoft Suite I	3
OAT	171	Document Processing/Input Technology	3
OAT	175	Electronic Spreadsheets	3
OAT	180	Word Processing	3
Total Credits			**16**

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Career Opportunities

A graduate of the Computer Information Systems program is prepared to work as a(n):

- Programmer
- Web developer
- Web specialist
- Web designer
- Software specialist
- Information specialist
- Software developer
- Office Specialists

Construction Apprenticeship Training Programs

Coordinator: Michael Conley, ext. 5193
Email: Michael.Conley@swic.edu

Students seeking admission to an apprenticeship program must meet the admission requirements of the trade union of choice, Office of Apprenticeship, U.S. Department of Labor, and SWIC. For further information concerning apprentice training, contact Michael Conley, director of Workforce Development and Career Pathways

Construction has revolutionized the way tasks are performed. Skilled craftsmen are needed at all levels, from construction development through maintenance. Furthermore, the nature of today's equipment and processes requires more than a casual acquaintance with these fields.

Employers value the balanced treatment of topics included in SWIC construction programs. They know that a graduate can function well in the real-world setting, develop required additional skills, and handle the lifelong learning required of today's construction trades.

Seven areas of concentration are built around the construction technology core courses. In each area, the student can earn a Certificate(s) of Proficiency or Associate in Applied Science degree. After graduation, a student will be qualified for employment in one or more of the following areas: the development, manufacture, installation, repair, maintenance, and management within the construction trades.

In addition, a student can earn a bachelor's degree by transferring to a college, which accepts the Associate in Applied Science degree and offers the Bachelor of Science in Technology.

*All students entering any of the **degree** programs **must** complete the SWIC Placement Test **before** enrolling in any construction technology course. **Students shall meet all institutional requirements to earn an Associate in Applied Science degree.***

Candidates for graduation must fulfill the degree requirements of the AAS degree listed at the beginning of the blue pages.
NOTE: For those students who have not been admitted to the electrical apprenticeship program and who would like to pursue training in the electrical and electronics field, please see the *Industrial Electricity* section of this catalog.

Important Information
UNION MEMBERSHIP REQUIRED.
The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Construction Bricklayer Associate in Applied Science Degree (039C) and Bricklayer Apprentice Certificate (040C)

First Year

Fall Semester			**Semester Credits**
BLA	118	Construction Bricklayer Apprentice I*	4
BLA	128	Construction Bricklayer Apprentice II*	4
CMT	102	Construction Blueprints & Specifications	3
CMT	103	Construction Materials & Methods I	3
ENG	101	Rhetoric & Composition I	3
Total Semester Credits			**17**

Spring Semester			**Semester Credits**
BLA	138	Construction Bricklayer Apprentice III*	4
BLA	148	Construction Bricklayer Apprentice IV*	4
CMT	244	Occupational Safety & Health I	3
CMT	152	Construction Materials & Methods II	3
CMT	153	Construction Estimating – Cost Accounting	3
Total Semester Credits			**17**

Second Year

Fall Semester			**Semester Credits**
BLA	258	Construction Bricklayer Apprentice V*	4
BLA	268	Construction Bricklayer Apprentice VI*	4
Any MGMT, BUS, or CIS Course			3
Communications Course			3
Humanities **OR** Social Science Course			3
Total Semester Credits			**17**

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Spring Semester			**Semester Credits**
CIS	120	Introduction to PC	1
CIS	125	Operating System Basics	1
HES	152	First Aid-Medical Self Help **OR**	2
HES	151	Personal Health and Wellness	
CMT	257	Construction Planning & Scheduling	3
Technical Elective**			3
Human Relations Course			3
Total Semester Credits			**13**
Total Program Credits			**64**

*A Bricklayer Apprentice Certificate will be given after the completion of the six courses marked with asterisks.

**Any course with a CAD, CMT, EET, HVAR, IDP, IML, PMT, or WLDT prefix.

Construction Carpentry
Associate in Applied Science Degree (039G) and Carpentry Apprenticeship Certificate (040G)

First Year

Fall Semester			**Semester Credits**
CCA	116	Health & Safety I*	2
CCA	117	Shop Orientation*	2
CCA	118	Concrete Formwork I*	2
CCA	119	Concrete Formwork II*	2
Any MGMT, BUS, or CIS Course			3
ENG	101	Rhetoric & Composition I	3
Total Semester Credits			**14**

Spring Semester			**Semester Credits**
CCA	126	Residential Framing I*	2
CCA	127	Residential Framing II*	2
CCA	128	Interior Systems Framing I*	2
CCA	129	Interior Systems Framing II*	2
CCA	165	Construction Carpentry Internship I	4
CMT	244	Occupational Safety & Health I	3
Total Semester Credits			**15**

Second Year

Fall Semester			**Semester Credits**
CCA	236	Millwright Basics I*	2
CCA	237	Millwright Basics II*	2
CCA	238	Carpentry Welding Basics I*	2
CCA	239	Carpentry Welding Basics II*	2
CCA	270	Construction Carpentry Internship II	4
Communications Course			3
Humanities **OR** Social Science Course			3
Total Semester Credits			**18**

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Spring Semester			**Semester Credits**
CCA	246	Safety Orientation I*	2
CCA	247	Safety Orientation II*	2
CCA	248	Interior/Exterior Trim*	2
CCA	249	Intermediate Prints*	2
CCA	290	Construction Carpentry Internship III	4
HES	152	First Aid-Medical Self Help **OR**	2
HES	151	Personal Health and Wellness	
Human Relations Course			3
Total Semester Credits			**17**

Total Program Credits **64**

*A Carpentry Apprentice Certificate will be given after the completion of the 16 courses marked with asterisks.

Construction Cement Mason
Associate in Applied Science Degree (039A) and Construction Cement Mason Certificate (040A)

First Year

Fall Semester			**Semester Credits**
CMA	113	Construction Cement Mason Apprentice I*	4
CMT	244	Occupational Safety & Health I	3
CMT	102	Construction Blueprints & Specifica	3
CMT	103	Construction Materials & Methods I	3
ENG	101	Rhetoric & Composition I	3
Total Semester Credits			**16**

Spring Semester			**Semester Credits**
CMA	123	Construction Cement Mason Apprentice II*	4
Any MGMT, BUS, or CIS Course			3
CMT	152	Construction Materials & Methods II	3
CMT	153	Construction Estimating - Cost Accounting	3
Communications Course			3
Total Semester Credits			**16**

Second Year

Fall Semester			**Semester Credits**
CMA	133	Construction Cement Mason Apprentice III*	4
CMA	245	Construction Cement Mason Apprentice IV*	4
Any MGMT, BUS, or CIS Course			3
ENGR	251	Surveying Fundamentals	3
Humanities **OR** Social Science Course			3
Total Semester Credits			**17**

Apply for Graduation Now

Spring Semester			**Semester Credits**
CMA	255	Construction Cement Mason Apprentice V*	4
CMA	265	Construction Cement Mason Apprentice VI*	4
BUS	101	Introduction to Business	3
HES	152	First Aid-Medical Self Help **OR**	2
HES	151	Personal Health and Wellness	
Human Relations Course			3
Total Semester Credits			**16**

Total Program Credits **65**

*A Construction Cement Mason Apprentice Certificate will be given after the completion of the six courses marked with asterisks.

Construction Electrical Specialist***
Associate in Applied Science Degree (039E)

First Year

Fall Semester			**Semester Credits**
IEW Certificate Courses**			8
CMT	258	Contracts & Claims	3
ENG	101	Rhetoric & Composition I	3
Total Semester Credits			**14**

Spring Semester			**Semester Credits**
IEW Certificate Courses**			8
Any MGMT, BUS, or CIS Course			3
Communications Course			3
CIS Elective (requires coordinator approval)			3
Total Semester Credits			**17**

Second Year

Fall Semester			**Semester Credits**
IEW Certificate Courses**			8
HES	152	First Aid-Medical Self Help **OR**	2
HES	151	Personal Health and Wellness	
Human Relations Course			3
CMT	257	Construction Planning & Scheduling	3
Total Semester Credits			**16**

Apply for Graduation Now

Spring Semester			**Semester Credits**
IEW Certificate Courses**			8
CMT	103	Construction Materials & Methods I	3
CMT	153	Construction Estimating-Cost Accounting I	3
Humanities **OR** Social Science Course			3
Total Semester Credits			**17**

Total Program Credits **64**

***For those students not admitted to the apprenticeship program and who would like to pursue training in the electrical/electronics field, please see the *Industrial Electricity* section of this catalog.

Construction Electrical Wireman Certificate (040E)

IEW	111	IBEW Electrician Inside Wireman I*	4
IEW	112	IBEW Electrician Inside Wireman II*	4
IEW	113	IBEW Electrician Inside Wireman III	4
IEW	114	IBEW Electrician Inside Wireman IV	4
IEW	211	IBEW Electrician Inside Wireman V	4
IEW	212	IBEW Electrician Inside Wireman VI	4
IEW	213	IBEW Electrician Inside Wireman VII	4
IEW	214	IBEW Electrician Inside Wireman VIII	4
IEW	215	IBEW Electrician Inside Wireman IX	4
IEW	216	IBEW Electrician Inside Wireman X	4
IEW	118	IBEW Elec Wireman Internship I	4
IEW	218	IBEW Elec Wireman Internship II	4
Total Credits			**48**

Construction Electrical Residential (040H)

IEW	131	IBEW Electrician Residential I	4
IEW	132	IBEW Electrician Residential II	4
IEW	233	IBEW Electrician Residential III	4
IEW	234	IBEW Electrician Residential IV	4
IEW	235	IBEW Electrician Residential V	4
IEW	236	IBEW Electrician Residential VI	4
IEW	138	IBEW Elec Residential Internship I	4
IEW	238	IBEW Elec Residential Internship II	4
Total Semester Credits			**32**

Construction Electrical Telecom (040I)

IEW	151	IBEW Electrician Installer/Tech I	4
IEW	152	IBEW Electrician Installer/Tech II	4
IEW	153	IBEW Electrician Installer/Tech III	4
IEW	154	IBEW Electrician Installer/Tech IV	4
IEW	251	IBEW Electrician Installer/Tech V	4
IEW	252	IBEW Electrician Installer/Tech VI	4
IEW	157	IBEW Elec Install/Tech Internship I	4
IEW	257	IBEW Elec Install/Tech Internship II	4
Total Semester Credits			**32**

Construction Electrical Lineman (040J)

IEW	141	IBEW Electrician Lineman I	4
IEW	142	IBEW Electrician Lineman II	4
IEW	241	IBEW Electrician Lineman III	4
IEW	242	IBEW Electrician Lineman IV	4
IEW	243	IBEW Electrician Lineman V	4
IEW	244	IBEW Electrician Lineman VI	4
IEW	145	IBEW Elec Lineman Internship I	4
IEW	245	IBEW Elec Lineman Internship II	4
Total Semester Credits			**32**

* All IEW courses are approved for the AAS degree **except** IEW 111 and IEW 112

** Students may only enroll in courses listed in their chosen certificate

Construction Ironworker
Associate in Applied Science Degree (039D) and Ironworker Apprentice Certificate (040D)

First Year

Fall Semester			**Semester Credits**
IWA	119	Construction Ironworker Apprentice I*	4
Any MGMT, BUS, or CIS Course			3
ACCT	105	Basic Accounting Procedures	3
Technical Elective			2
CIS	120	Introduction to the PC **AND**	1
CIS	160	Internet Basics **OR**	1
Higher Level CIS courses with approval of coordinators			
Total Semester Credits			**14**

Spring Semester			**Semester Credits**
IWA	129	Construction Ironworker Apprentice II*	4
IWA	139	Construction Ironworker Apprentice III*	4
CMT	244	Occupational Safety & Health	3
ENG	101	Rhetoric & Composition I	3
Total Semester Credits			**14**

Summer Semester			**Semester Credits**
ENGR	251	Surveying Fundamentals	3
IWA	249	Construction Ironworker Apprentice IV*	4
Total Semester Credits			**7**

Second Year

Fall Semester			**Semester Credits**
IWA	259	Construction Ironworker Apprentice V*	4
IWA	269	Construction Ironworker Apprentice VI*	4
HES	152	First Aid-Medical Self Help **OR**	2
HES	151	Personal Health and Wellness	
Communications Course			3
Humanities **OR** Social Science Course			3
Total Semester Credits			**16**

Apply for Graduation Now

Spring Semester			**Semester Credits**
IWA	279	Construction Ironworker Apprentice VII*	4
IWA	289	Construction Ironworker Apprentice VIII*	4
BUS	101	Introduction to Business	3
Human Relations Course			3
Total Semester Credits			**14**

Total Program Credits **65**

*An Ironworker Apprentice Certificate will be given after the completion of the eight courses marked with asterisks.

Students shall meet all institutional requirements for the Associate in Applied Science degree.

Construction Painting and Decorating Associate in Applied Science Degree (039F) and Painting and Decorating Apprentice Certificate (040F)

First Year

Fall Semester			**Semester Credits**
PDA	117	Painting & Decorating Apprentice I*	4
PDA	127	Painting & Decorating Apprentice II	4
Human Relations Course			3
CMT	102	Construction Blueprints & Specifications	3
CMT	103	Construction Materials & Methods I	3
Total Semester Credits			**17**

Spring Semester			**Semester Credits**
PDA	137	Painting & Decorating Apprentice III*	4
PDA	257	Painting & Decorating Apprentice V*	4
ACCT	105	Basic Accounting Procedures OR	3
GT	105	Introduction to Technical Mathematics	
Any MGMT, BUS, or CIS Course			3
CMT	153	Construction Estimating - Cost Accounting	3
Total Semester Credits			**17**

Second Year

Fall Semester			**Semester Credits**
PDA	267	Painting & Decorating Apprentice VI*	4
Any MGMT, BUS, or CIS Course			3
ENG	101	Rhetoric & Composition I	3
Humanities **OR** Social Science Course			3
Total Semester Credits			**13**

Apply for Graduation Now

Spring Semester			**Semester Credits**
PDA	278	Painting & Decorating Apprentice VII*	4
PDA	288	Painting & Decorating Apprentice VIII*	4
HES	152	First Aid-Medical Self Help **OR**	2
HES	151	Personal Health and Wellness	
Communications Course			3
Total Semester Credits			**13**

Total Program Credits **60**

*A Painting & Decorating Apprentice Certificate will be given after the completion of the six courses marked with asterisks.

Construction Sheetmetal Associate in Applied Science Degree (039B) and Sheetmetal Apprentice Certificate (040B)

First Year

Fall Semester			**Semester Credits**
SMA	114	Construction Sheetmetal Apprentice I*	4
SMA	124	Construction Sheetmetal Apprentice II*	4
CMT	102	Construction Blueprints & Specifications	3
CMT	103	Construction Materials & Methods I	3
ENG	101	Rhetoric & Composition I	3
Total Semester Credits			**17**

Spring Semester			**Semester Credits**
SMA	134	Construction Sheetmetal Apprentice III*	4
SMA	144	Construction Sheetmetal Apprentice IV*	4
CMT	244	Occupational Safety & Health I	3
CMT	152	Construction Materials & Methods II	3
CMT	153	Construction Estimating - Cost Accounting	3
Total Semester Credits			**17**

Second Year

Fall Semester			**Semester Credits**
SMA	254	Construction Sheetmetal Apprentice V*	4
SMA	264	Construction Sheetmetal Apprentice VI*	4
Any MGMT, BUS, or CIS Course			3
Communications Course			3
Humanities **OR** Social Science Course			3
Total Semester Credits			**17**

Apply for Graduation Now

Spring Semester			**Semester Credits**
SMA	274	Construction Sheetmetal Apprentice VII*	4
SMA	284	Construction Sheetmetal Apprentice VIII*	4
HES	152	First Aid-Medical Self Help **OR**	2
HES	151	Personal Health and Wellness	
Human Relations Course			3
Total Semester Credits			**13**

Total Program Credits **64**

*A Sheetmetal Apprentice Certificate will be given after the completion of the eight courses marked with asterisks.

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Career Opportunities

Completing an apprenticeship in building trades is not a dead-end goal. Building trades offer many opportunities for the Associate in Applied Science degree graduate.

The construction industry offers many varied employment opportunities. An apprenticeship completer can work at the trade while pursuing a bachelor's degree. A bachelor's degree would, in turn, open doors that could enable the construction worker to choose from an unlimited number of careers in the industry. Possibilities include:

- Contractor
- Insurance adjuster
- Bonding agent
- Engineer
- Architect's representative at a job site
- Construction manager
- Estimator
- Building inspector
- Job-site superintendent
- Foreman

Construction Management Technology

swic.edu/cmt

Coordinator/Faculty: Charles "Jim" Laing, ext. 5209
Email: Charles.Laing@swic.edu
Dean: Dr. Travis Jumper, ext. 7457
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The Construction Management Technology program at Southwestern Illinois College prepares students for careers in the construction industry. Upon graduation, students are qualified for several entry-level positions in the construction management career field.

Employers value a balanced technical curriculum and graduates with solid presentation and communication skills. They know graduates can function well in real-world settings, develop required skills and handle lifelong learning required of today's construction managers.

SWIC's CMT program is built on four core areas – safety, quality control, estimating and scheduling. Courses supporting these areas integrate software commonly used in the construction industry including Autodesk Revit, Navisworks, Recap, Remake, Bluebeam, MS Excel and MS Project. Software skills applied to construction management areas of project control give students an upper hand in a competitive marketplace.

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Articulation Agreements

SIU-Carbondale – BS Industrial Management and Applied Engineering: Quality Management
SIU-Edwardsville - BS Construction Management

Associate in Applied Science Degree (0039)

First Year

Fall Semester			**Semester Credits**
CMT	100	Introduction to Construction Management	2
CMT	102	Construction Documents	3
CMT	105	Computer Applications for Construction	3
CMT	106	Math for Construction	4
COMM	155	Interpersonal Communication	3
Total Semester Credits			**15**

Spring Semester			**Semester Credits**
CMT	103	Construction Materials & Methods I	3
CMT	153	Construction Estimating (Spring Only)	3
ACCT	105	Basic Accounting Procedures	3
CMT	244	Occupational Safety and Health I	3
Humanities and Fine Arts			3
Total Semester Credits			**15**

Summer Semester			**Semester Credits**
CMT	152	Construction Materials and Methods II	3
Total Semester Credits			**3**

Second Year

Fall Semester			**Semester Credits**
CMT	200	Virtual Construction I	4
CMT	206	Building Systems	3
CMT	257	Construction Planning and Scheduling	3
ENGR	251	Surveying Fundamentals OR	
CET	145	Surveying Fundamentals	3
HES	152	First Aid-Medical Self-Help	2
Total Semester Credits			**15**

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Spring Semester			**Semester Credits**
CMT	150	Internship OR *Technical Elective	3
CMT	205	International Building Code	3
CMT	258	Contracts and Claims	3
CMT	265	Virtual Construction II	3
Human Relations Course			3
Total Semester Credits			**15**

Total Program Credits **63**

*Technical Electives shall include CMT 145 Building Trades Craft Survey I, CMT 146 Building Trades Craft Survey II, or any Technical Education course.

There are requisites for some courses. Refer to the *Course Description Guide* in the yellow section of this catalog.

Accelerated Degree Option Construction Management Technology (0039)

Anyone who has completed an associate or bachelor's degree from a regionally accredited college may earn an Associate in Applied Science degree in Construction Management Technology by completing at least 32 semester credits of program-related coursework plus required general education coursework. A plan of specific courses required for the degree must be obtained from the program coordinator. Only those courses completed at SWIC, and not included as part of the requirements for the previously earned degree or certificate can be considered for this option. Students must meet all institutional requirements for the Associate in Applied Science degree.

			Semester Credits
CMT	100	Introduction to Construction Management	2
CMT	102	Construction Documents	3
CMT	103	Materials and Methods I	3
CMT	105	Computer Applications for Construction	3
CMT	152	Materials and Methods II	3
CMT	153	Construction Estimating	3
CMT	205	International Building Code	3
CMT	206	Building Systems	3
CMT	244	Occupational Safety and Health I	3
CMT	257	Construction Planning and Scheduling	3
CMT	258	Contracts and Claims	3
Total Credits			**32**

Certificate Programs

Architectural Technology Certificate (039H)

			Semester Credits
CMT	100	Introduction to Construction Management	2
CMT	102	Construction Documents	3
CMT	103	Construction Materials & Methods I	3
CMT	105	Computer Applications for Construction	3
CMT	152	Construction Materials and Methods II	3
CMT	200	Virtual Construction I	4
CMT	205	International Building Code	3
CMT	206	Building Systems	3
CMT	265	Virtual Construction II	3
Total Credits			**27**

CMT Certificate (0040)

A certificate program in Construction Management Technology is primarily for in-service training of persons employed in the construction field. Students acquire further formal training in their occupation.

			Semester Credits
CMT	100	Introduction to Construction Management	2
CMT	102	Construction Documents	3
CMT	103	Construction Materials & Methods I	3
CMT	105	Computer Applications for Construction	3
CMT	152	Construction Materials and Methods II	3
CMT	153	Construction Estimating	3
CMT	206	Building Systems	3
CMT	244	Occupational Safety & Health I	3
CMT	257	Construction Planning & Scheduling	3
CMT	258	Contracts and Claims	3
CMT	205	International Building Code	3
ENGR	251	Surveying Fundamentals OR	
CET	145	Surveying Fundamentals	3
Total Credits			**35**

Building Performance Certificate (036A)

This certificate program focuses on energy efficiency of residential structures and provides the student opportunity for nationally recognized Building Performance Institute certifications. Building analysis and weatherization techniques including blower door, indoor air quality and combustion analysis are included. Specific focus on building science, buildings and their systems, standards and specifications is included.

			Semester Credits
CMT	147	Energy Auditor	4
CMT	148	Weatherization Specialist	4
CMT	149	Weatherization II	1.5
Total Credits			**9.5**

Building Information Modeling Certificate (036B) -10 semester credits/2 semesters

The SWIC Building Information Modeling Certificate provides opportunities for students to explore pre-construction and construction phases of building projects using information modeling software. The computer is very much alive in the construction industry and as demand increases as a result of more stringent building codes, sustainable construction methods and alternate project delivery methods, use of BIM will continue to grow. Students are required to learn modeling software including identification and assembly of parts and products. Unlike traditional two-dimensional drawings, BIM models store information related to both quantity and quality of the proposed structure. Students learn how to use the software to the benefit of the construction process including, structural, HVAC, plumbing and electrical systems integration for the purpose of constructability modeling, clash detection, scheduling and estimating, as well as other pre-construction phase tasks. Construction applications include process improvement techniques while focusing on updating the model as change occurs during construction. Students will be introduced to advanced delivery methods including paperless job sites, the virtual job trailer as well as tough tablet use on job sites. The Building Information Modeling Certificate will provide current needed training and experience for construction managers, scheduling and estimating staff, designers, draftsmen, project superintendents, job foreman and building tradespeople.

			Semester Credits
CMT	105	Computer Applications for Construction	3
CMT	200	Virtual Construction I	4
CMT	265	Virtual Construction II	3
Total Credits			**10**

Building Trades Safety (036C) -

This certificate provides students with opportunities to experience several trade specialization areas. Students explore hands-on techniques, including the use and proper handling of tools and materials, with an emphasis on the safety aspects related to each trade. In addition to SWIC's Building Trades Safety Certificate, successful completion of CMT 244 will result in OSHA 30 certification.

			Semester Credits
CMT	145	Building Trades Craft Survey 1	4
CMT	146	Building Trades Craft Survey II	4
CMT	242	OSHA Certification (1)	1
CET	100	Introduction to Construction	3
Total Credits			**12**

Career Opportunities

A graduate of the Construction Management Technology program is prepared to work in entry-level management team positions including:

- Office engineer
- Field engineer
- Foreman
- BIM technician
- Assistant superintendent

Culinary Arts and Food Management

swic.edu/culinary

Coordinator/Faculty: Leisa Brockman, ext. 7389/5436
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Dean: Dr. Travis Jumper, ext. 7457
Email: Travis.Jumper@swic.edu

The Culinary Arts and Food Management program prepares students for entry-level positions in the food service industry. The program offers five different educational options to meet students' specific needs.

The Associate in Applied Science in Culinary Arts and Food Management degree program provides students with the knowledge of restaurant management and culinary arts skills necessary to obtain entry-level chef or restaurant management positions. Some graduates prefer to transfer to a four-year institution to pursue a bachelor's degree. The program has an outstanding reputation among notable colleges and universities. SWIC can assist in the transfer process.

The Baking and Pastry degree program prepares students for careers in the culinary arts/baking industry. The Associate in Applied Science program blends specialized baking science, technology and applications, as well as foundational business competencies to operate a successful baking operation.

The five Culinary Arts and Food Management certification programs provide specific foundations to help prepare for a particular job in the industry or to enhance present job skills. One certificate offers a food service concentration while another offers a food service and management combination. The third certificate concentrates on food preparation. The fourth certificate focuses specifically on the art and science of baking and pastry. The Food Truck and Mobile Catering Management Certificate provides culinary entrepreneurs the foundational knowledge to design, operate and manage a successful food truck and/or mobile catering business.

SWIC Culinary Arts and Food Management program partners with the National Restaurant Association and the Council of Hotel, Restaurant and Institutional Education.

Students in the Culinary Arts and Food Management program must be able to perform physical requirements as identified by the department.

Articulation Agreements

A.A.S. Culinary Arts & Food Management:

- SIUC – BS Hospitality, Tourism & Event Management

A.A.S. Baking & Pastry:

- SIUE – BS Hospitality and Tourism Administration

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Culinary Arts and Food Management Associate in Applied Science Degree (066A)

First Year

Fall Semester			**Semester Credits**
CUL	116	Food Service Sanitation	1
CUL	101	Introduction to Culinary Arts	1
ENG	101	Rhetoric & Composition I	3
HES	152	First Aid-Medical Self Help	**2**
CUL	115	Table Service	2
CUL	110	Professional Food Preparation I	5
CUL	127	Baking & Pastry	2
CUL	CUL	Elective	2
Total Semester Credits			**18**

First Year

Spring Semester			**Semester Credits**
COMM	151	Fundamentals of Public Speaking	3
CUL	111	Professional Food Preparation II	5
CUL	105	Food, Beverage, Labor Cost Control	3
SOC	153	Introductory Sociology	3
CUL	123	Legal Aspects of Food Service Mgmt	3
Total Semester Credits			**17**

Second Year

Fall Semester			**Semester Credits**
BUS	101	Introduction to Business	3
CUL	209	Hospitality Management	3
CUL	114	Garde Manger	3
CUL	206	Menu Development & Pricing	3
CUL	230	Internship I	3
Human Relations Elective			3
Total Semester Credits			**18**

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Second Year

Spring Semester			**Semester Credits**
CUL	228	Culinary Nutrition for Food Service	3
CUL	212	Food Service Purchasing	3
CUL	231	Internship II	3
CUL	Culinary Elective		9
Total Semester Credits			**18**

Total Program Credits **71**

Students must meet all institutional requirements for the Associate in Applied Science degree.

CUL	231	Internship II	3
CUL	232	Advanced Decorating Techniques	4
CUL	233	Contemporary Plating Techniques	2
CUL	234	Breads, Rolls, & Pastries	2
CUL	235	Food Truck/Mobile Catering II	2
CUL	299	Special Topics (with coordinator's approval)	1-3

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Career Opportunities

A graduate of the Culinary Arts and Food Management program is prepared to work as a:

- Chef
- Assistant manager
- Assistant food and beverage manager
- Entry-level food service manager
- Kitchen manager
- Catering manager
- Production supervisor

Baking and Pastry Associate of Applied Science Degree (066F)

First Year

Fall Semester			**Semester Credits**
CUL	116	Food Service Sanitation	1
CUL	101	Introduction to Culinary Arts	1
ENG	101	Rhetoric & Composition I	3
BUS	102	Business Mathematics	3
CUL	110	Professional Food Preparation I	5
CUL	127	Baking & Pastry	2
CUL	129	Cake Decorating I	2
Total Semester Credits			**17**

First Year

Spring Semester			**Semester Credits**
COMM	151	Fundamentals of Public Speaking	3
HES	152	First-Aid Medical Self-Help	2
CUL	132	Ice Cream & Frozen Desserts	2
CUL	105	Food, Beverage & Labor Cost Control	3
CUL	128	Advanced Professional Baking	2
CUL	130	Cake Decorating II	2
Total Semester Credits			**14**

Second Year

Fall Semester			**Semester Credits**
SOC	153	Introductory Sociology	3
CUL	123	Legal Aspects of Food Service Management	3
CUL	228	Culinary Nutrition for Food Service	3
CUL	232	Advanced Decorating Techniques	4
CUL	133	Sustainable Kitchen	2
CUL	131	Experimental Baking Techniques	2
Total Semester Credits			**17**

Apply for Graduation Now

Second Year

Spring Semester			**Semester Credits**
CUL	206	Menu Development & Pricing	3
CUL	212	Food Service Purchasing	3
CUL	230	Internship I	3
Human Relations Elective			3
CUL	209	Hospitality Management	3
CUL	234	Breads, Rolls & Pastries	2
Total Semester Credits			**17**

Total Program Credits **65**

Certificate Programs

Food Service (066B)Semester Credits

			Semester Credits
CUL	116	Food Service Sanitation	1
CUL	101	Introduction to Culinary Arts	1
CUL	105	Food Beverage and Labor Cost	3
CUL	110	Professional Food Preparation I	5
CUL	111	Professional Food Preparation II	5
CUL	127	Baking & Pastry	2
CUL	135	Food Truck/Mobile Catering I	2
CUL	230	Internship I	3
CUL	231	Internship II	3
Total Credits			**25**

Food Service and Management (066C)

			Semester Credits
Completion of Food Service Certificate (066B)			25
CUL	115	Table Service	2
CUL	123	Legal Aspects of Food Service Management	3
CUL	206	Menu Development and Pricing	3
CUL	209	Hospitality Management	3
CUL	212	Food Service Purchasing	3
CUL	228	Culinary Nutrition for Food Service	3
Total Credits			**42**

Culinary Arts (066D)

			Semester Credits
CUL	116	Food Service Sanitation	1
CUL	101	Introduction to Culinary Arts	1
CUL	110	Professional Food Preparation I	5
CUL	111	Professional Food Preparation II	5
CUL	115	Table Service	2
CUL	127	Baking & Pastry	2
CUL	133	Sustainable Kitchen	2
CUL	209	Hospitality Management	3
CUL	228	Culinary Nutrition for Food Service	3
CUL	230	Internship I	3
CUL		Culinary Elective	3
Total Credits			**30**

Baking & Pastry (066E)

			Semester Credits
CUL	116	Food Service & Sanitation	1
CUL	101	Introduction to Culinary Arts	1
CUL	105	Food, Beverage & Labor Cost Control	3
CUL	110	Professional Food Preparation I	5
CUL	115	Table Service	2
CUL	127	Baking & Pastry	2
CUL	128	Advanced Professional Baking	2
CUL	129	Cake Decorating I	2
CUL	130	Cake Decorating II	2
CUL	131	Experimental Baking Techniques	2
CUL	132	Ice Cream and Frozen Desserts	2
CUL	133	Sustainable Kitchen	2
CUL	209	Hospitality Management	3
CUL	228	Culinary Nutrition for Food Service	3
CUL	232	Advanced Decorating Techniques	4
CUL	234	Breads, Rolls & Pastries	2
CUL	230	Internship I	3
Total Credits			**41**

Food Truck and Mobile Catering (066I)

			Semester Credits
CUL	116	Food Service Sanitation	1
CUL	101	Introduction to Culinary Arts	1
CUL	110	Professional Food Preparation I	5
CUL	111	Professional Food Preparation II	5
CUL	127	Baking & Pastry	2
CUL	135	Food Truck/Mobile Catering I	2
CUL	235	Food Truck/Mobile Catering II	2
CUL	133	Sustainable Kitchen	2
CUL	206	Menu Development & Pricing	3
CUL	209	Hospitality Management	3
CUL	123	Legal Aspects of Food Service Mgmt.	3
CUL	105	Food, Beverage & Labor Cost Control	3
CUL	114	Garde Manger	3
CUL	228	Culinary Nutrition for Food Service	3
CUL	212	Food Service Purchasing	3
CUL	230	Internship I	3
CUL	231	Internship II	3
Total Hours			**47**

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

CUL Electives

			Semester Credits
CUL	112	Advanced Professional Cooking	3
CUL	113	Soups, Stocks and Sauces	3
CUL	128	Advanced Professional Baking	2
CUL	129	Cake Decorating I	2
CUL	130	Cake Decorating II	2
CUL	131	Experimental Baking Techniques	2
CUL	132	Ice Cream and Frozen Desserts	2
CUL	133	Sustainable Kitchen	2
CUL	135	Food Truck/Mobile Catering I	2
CUL	200	Culinary Competition Techniques	2

Career Opportunities

- Bakery manager/owner
- Pastry chef

Cybersecurity and Networking

swic.edu/cybersecurity

For more computer classes, see:
Computer Information Systems
Marketing & Graphic Communications

Coordinator/Faculty: Carolin Brewer, ext. 7374
Email: Carolin.Brewer@swic.edu
Dean: Darrell Robin, Ed.D., ext. 5227
Email: Darrell.Robin@swic.edu

As a Cisco Networking Academy, we offer an Associate in Applied Science degree in Cybersecurity and Networking as well as a certificate in Cybersecurity and a Certificate in Networking.

Our program develops your skills to obtain an entry-level position in IT, namely in the fields of f cybersecurity and networking.

In our program, you may earn valuable digital badges as well as highly sought-after industry certifications such as the Cisco Certified Network Associate (CCNA), the CompTIA Security+, Comp TIA Network+, the Linux Essentials, and the Python PCEP/PCAP.

Approach Carolin, the program coordinator, or an academic advisor for more information. Students in the Cybersecurity and Networking program must be able to perform technical functions as identified by the department.

Articulation Agreements

- SIUC – BS Information Technology

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

This degree can be started in any semester - Fall, Spring or Summer

Associate in Applied Science Degree (0007)

First Year

Semester A			**Semester Credits**
CISC	117	Cybersecurity Essentials	3
CISC	130	Python Essentials	2
CISC	161	Cisco Networking Essentials	4
NETW	182	Linux Operating System	3
ENG	101	Rhetoric & Composition I	3
Total Semester Credits			**15**

Semester B			**Semester Credits**
CISC	126	CyberOps Associate	4
CISC	162	Cisco Network Communication	4
MATH	107 or Higher		4
Humanities or Social Science Elective			3
Total Semester Credits			**15**

Second Year

Semester C			**Semester Credits**
CISC	163	Cisco Switching and Routing	4
Networking Elective			3
Networking Elective			3
Human Well-Being Elective			2
Human Relations Requirement			3
Total Semester Credits			**15**

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Semester D			**Semester Credits**
CISC	164	Cisco Enterprise Networking	4
NETW	271	Network Security	3
Networking Elective			3
Networking Elective			3
Communications Elective			3
Total Semester Credits			**16**
Total Program Credits			**61**

Electives

NETW	101	Introduction to Networking	3
NETW	102	Management of Information Security	3
NETW	188	Windows Server I	3
NETW	211	Digital Forensics	3
NETW	212	Principles of IR and DR	3
NETW	231	Ethical Hacking	3
NETW	232	Management of Cloud Computing	3

Accelerated Degree Option

If you hold an Associate's or Bachelor' s degree from an accredited college, you may be eligible for obtaining our Associate of Applied Science degree in Cybersecurity and Networking with significantly fewer than 61 credits. We will craft an individualized plan based on your past education to earn our degree. Please contact the coordinator for details and for creating your individualized plan.

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Career Opportunities

A graduate of the Cybersecurity and Networking program is prepared to work as a(n):

- Network administrator
- Network technician
- Systems administrator
- Systems engineer

Certificate Programs

Network Associate Certificate (007A)

Our Network Associate Certificate starts with networking technology basics, setting up simple networks, IP addressing, and covers network design, routing, switching and wireless technologies. You will gain hands-on experience through simulations as well as with local and remote hardware.

After completing the four-course series, you may obtain the prestigious Cisco Certified Network Associate (CCNA) certification.

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Fall Semester			**Semester Credits**
CISC	161	Cisco Networking Essentials	4
CISC	162	Cisco Network Communication	4
Total Semester Credits			**8**

Spring Semester			**Semester Credits**
CISC	163	Cisco Switching and Routing	4
CISC	164	Cisco Enterprise Networking	4
Total Semester Credits			**8**
Total Credits			**16**

Career Opportunities

A student who completes the Network Associate Certificate at SWIC and obtains the CCNA professional certification is prepared to work as a:

- Network administrator
- Network specialist
- Network support technician

Help Desk (011G)

This certificate will provide the skills and knwledge required for an entry level IT Help Desk position. Help Desk Technicians assist non-IT users who are having computer problems. Computer support specialists work in many different industries, including information technology, education, fiance health care, telecommunication, retail, and entertainment.

			Semester Credits
CIS	185	Intro to Information Technology	3
CIS	179	Computer User Support for Help Desk	3
CISC	106	Introduction to Cybersecurity (1st 5 weeks)	1
CISC	116	Cisco Cybersecurity Essentials (2nd 11 weeks)	2
CISC	161	Cisco Networking Essentials (1st 8 weeks)	4
EET	256	Preparation for A+ Certification (2nd 8 weeks)	3
Total Semester Credits			**16**

***Help Desk Certificate offered at East St. Louis campus only.**

Cybersecurity Specialist (007D)

This certificate prepares you for securing information and communication systems to protect them from damage, exploitation, and unauthorized use or modification. You will learn about concepts, principles, methods, techniques, practices, and procedures needed to become a cybersecurity specialist who plans, implements, upgrades, or monitors security measures in an organization.

After completing the course work to obtain a Cybersecurity Specialist certificate, you may obtain the Cisco Certified Network Associate (CCNA) certification and the CompTIA Security+ certification.

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

This certificate can be spread over fall, spring, and summer terms CISC 161 - 164 are offered as 8-week courses or as consecutive semester-long courses, extending the completion time potentially to four terms.

Semester 1			**Semester Credits**
CISC	117	Cybersecurity Essentials	3
CISC	161	Cisco Networking Essentials	4
CISC	162	Cisco Network Communication	4
NETW	188	Windows Server I	3
Total Semester Credits			**14**

Semester 2			**Semester Credits**
CISC	163	Cisco Switching and Routing	4
CISC	164	Cisco Enterprise Networking	4
CISC	126	CyberOps Associate	4
Total Semester Credits			**12**

Semester 3			**Semester Credits**
NETW	211	Digital Forensics	3
NETW	271	Network Security	3
Networking Elective			3
Total Semester Credits			**9**
Total Credits			**35**

Career Opportunities

A student who completes the Cybersecurity Specialist certificate is prepared to work as a(n):

- Network support specialist
- Network technician
- Systems administrator
- Systems engineer
- Systems manager

Diagnostic Medical Sonography

swic.edu/dms

Coordinator: Jacqueline Owens, ext. 5626
Email: Jacqueline.Owens@swic.edu
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu
Administrative Assistant: Candice Rodgers, ext. 5355

The SWIC Sonography program prepares students with the skills necessary to become a registered sonographer, prepared to work in a variety of clinical settings including hospital or privately owned facilities. Sonographers are trained professionals in diagnostic imaging equipment to assist healthcare professionals to make accurate diagnoses and treatment options. Registered sonographers are skilled in operating imaging equipment, reviewing normal and abnormal images and preparing patients for various medical procedures following review of the patient's medical records. For further information regarding the field of sonography, please go to the Occupational Outlook Handbook: https://www.bls.gov/ooh/healthcare/diagnostic-medical-sonographers.htm

- Three-semester certificate
- Offered: Fall, Spring, and Summer semesters
- Selective admission for fall semester start.
- Applications are accepted Sept. 1 to Dec. 1
- To enroll, students must have completed a two-year allied health program receiving an Associate or Bachelor's in Applied Science that is patient-care related and required clinical education.

Important Information

The following semester sequence is designed as a guide for students enrolled full time. **This is a required schedule.** Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

The program is designed to include classroom education, laboratory/simulation, and clinical experience in a sonography setting.

Certification Requirements

Upon successful completion of the Sonography curriculum, graduates are awarded a certificate as a sonographer. Graduates of the sonography curriculum are eligible to take the registry examination by the American Registry of Diagnostic Medical Sonography (ARDMS). To work in Illinois, graduates of the program must provide proof of graduation from a sonography training program. Illinois sonography employers prefer professional certification by the ARDMS for students to gain employment as a sonographer.

Enrollment Requirements

To enroll in sonography classes, students must show proof of college transcript meeting application requirements of an Associate in Applied Science or Bachelor's in Applied Science received from an allied health program that is patient care related with a clinical education component. To obtain information about a readiness visit, contact an academic advisor.
Students should be aware they must pass a criminal background check and drug testing to participate in required clinical experience courses. Additionally, students must present current vaccination records meeting the program's contracted clinical site requirements.

Sonography Capacity

The Sonography program has capacity for approximately 20 students admitted each fall at the Belleville Campus. Seats available are dependent on meeting application requirements and on clinical availability.

Program Location

The Sonography program consists of DMS-prefix courses and assigned clinical practicums. Specific locations depend on the course.

1. The DMS courses are offered at the Belleville Campus.
2. Clinical experiences may be scheduled during the day, at hospital, clinic, or privately owned facilities throughout southern Illinois and in the St. Louis region. Students may be required to travel outside of the college district for clinical practicum courses. Specific clinical placement cannot be guaranteed, and specific clinical schedules may be changes during courses. Students are responsible for their own transportation and attendance to any of the classes and clinical practicums assigned by the program.

Orientation & Performance

Students must attend the required orientation session prior to program start, meet program-specific medical requirements, be able to perform the essential functions of the job as listed in the Student Handbook or at swic.edu with reasonable accommodations if needed, and submit results of a background check, drug screen, physical examination, and the required immunizations by the required date as presented in the orientation session. Any applicants or enrolled students are encouraged to contact the Student Accessibility & Support Services at 618-235-2700, ext. 5368, to discuss potential issues associated with meeting these requirements. Students not able to perform the essential elements of a sonography position may be unable to pass the required courses. Other program-specific restrictions may apply.

Health Insurance

Health insurance is required during clinical Sonography courses. Students are personally responsible for any costs incurred for injuries occurring during clinical experiences in their role as a student sonographer.

Medical/Health Requirements

Admitted students will be required to show proof of immunizations, tuberculosis test, and physical examination before beginning any clinical experience. These requirements do

not have to be fulfilled until after the program orientation but must be fulfilled by the required deadline.

Background Checks and Drug Testing

Criminal background check, random drug test and name search on government registries which prohibit employment in health care professions are required in our health science programs. Program start is contingent upon meeting deadlines for completion of the screening and results which allow the student to participate in the clinical portion of the program. Details and directions for accessing and purchasing online screening for background checks are shared with accepted students. Background checks are conducted for every state in which the student has worked or resided since the age of 18 years. Conviction of offenses in the following areas normally prohibit the student from participation in the clinical portion of the program and will result in program dismissal: assault, sexual offenses, murder, burglary, arson, and robbery. Refer to the Health Care Worker Background Check Act for a complete list of offenses at: www.idph.state.il.us/nar/.

To participate in the clinical portion of the program, students with "disqualifying" offense(s) will be asked to produce a waiver from the Illinois Department of Public Health for identified offenses. To request a waiver application from IDPH, students may call 217-785-5133. Not all clinical sites accept the IDPH waiver (ie. Missouri sites), therefore required clinical sites are also surveyed to determine if clinical placement can be accomplished. If a waiver cannot be produced prior to clinicals/program start or survey results indicate clinical sites prohibit the conviction, the student will be removed from the program.

In addition, positive results from the drug test or student listing on prohibitory government registry will also result in dismissal from the program. Note: Positive drug testing results from the use of illegal drugs or prescription medication for which the student does not have a prescription, medical marijuana, which is not FDA approved, is also considered a positive drug testing result. Dismissal for positive criminal background check, drug test, or listing on a government registry does not quality students for refund of tuition or lab fees. Students who have concerns regarding their status with the above regulations are encouraged to discuss the matter with the program coordinator or the administrative assistant prior to seeking admission.

Graduation Requirements

Students enrolled to the program must follow course requirements for graduation at the time they are admitted and must meet all course, program, certification, and sequencing requirements specified. Posted changes in course requirements are applicable to all newly admitted students. Students are responsible for program policies as listed in the Sonography Student Handbook. Students must complete the curriculum within 150 percent of initial enrollment. A grade of C is the minimum grade acceptable for ALL courses in the Sonography curriculum.

Sonography Certificate (028B)

Fall Semester			Semester Credits
DMS	101	Intro to Diagnostic Sonography	2
DMS	102	DMS Physics & Instrumentation I	2
DMS	103	Abdominal Sonography I	3
DMS	104	OB & GYN Sonography I	3
DMS	105	Sonography Lab I	1
DMS	110	DMS Clinical Experience I	5
Total Semester Credits			**16**

Spring Semester			Semester Credits
DMS	106	DMS Physics & Instrumentation II	3
DMS	107	Abdominal Sonography II	3
DMS	108	OB & GYN Sonography II	3
DMS	109	Sonography Lab II	1
DMS	201	DMS Clinical Experience II	8
Total Semester Credits			**18**

Summer Semester			Semester Credits
DMS	200	Vascular & Specialties DMS	2
DMS	202	DMS Clinical Experience III	6
Total Semester Credits			**8**

Total Credits	**42**

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Career Opportunities

According to the US Bureau of Labor Statistics' Occupational Outlook Handbook, the median wage for sonographers was $70,380 with a 12 percent growth outlook from 2019-2029. Hourly and salary ranges can vary dependent on hiring facility and demographics.

Early Childhood Education

swic.edu/early-childhood-aas
Coordinator/Faculty: Yvette Schultz, ext. 5593
Email: Yvette.Schultz@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

This program is designed to prepare students to work with young children in various early childhood settings. Students will receive instruction in theories of child development, developmentally appropriate practice, adapting for children with special needs, and establishing relationships with parents. (Also see the Early Childhood Education transfer option in Associate in Arts program area.) See the program coordinator or an academic advisor for more information. Note: Please see the following ISBE website for the steps to apply for an approval letter to be a paraprofessional: https://www.isbe.net/educatorlicensure
Southwestern Illinois College is an entitled institution through Gateways to Opportunity: Illinois Professional Development Program. The Early Childhood Education AAS degree offers ECE Credential Levels 2 – 4 and Infant Toddler Credential Level 2.

Articulation Agreements

- National Louis University – B.A. Early Childhood Education

Important Information
The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0073)

First Year

Fall Semester			**Semester Credits**
ECE	110	Intro to Early Childhood Education	3
ECE	112	Growth & Development of Children	3
ENG	101	Rhetoric & Composition I	3
SOC	153	Introductory Sociology	3
BUS	102	Business Mathematics **OR**	3-4
MATH	097	Intermediate Algebra or higher	
Total Semester Credits			**15-16**

Spring Semester			**Semester Credits**
ECE	114	Child Health Maintenance	3
ENG	102	Rhetoric and Composition II	3
HES	151	Personal Health and Wellness	2
PSYC	151	General Psychology	3
ECE	250	Child, Family and Community	3
Lab Science Course			4
Total Semester Credits			**18**

Second Year

Fall Semester			**Semester Credits**
Technology Elective			3
ECE	116	Children with Special Needs	3
ECE	118	Early Childhood Practicum I	3
ECE	121	Early Childhood Curriculum	3
LIT/ED	293	Children's Literature	3
Humanities Course			3
Total Semester Credits			**18**

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Spring Semester			**Semester Credits**
ECE	125	Early Childhood Administration	3
ECE Elective			3
CUL	116	Food Service Sanitation	1
HES	152	First Aid-Medical Self Help*	2
Humanities Course			3
Any 100-level or higher course			3
Total Semester Credits			**15**
Total Program Credits			**66-68**

*Students who hold current First-Aid and CPR certificates in the semester they plan to graduate can obtain a waiver out of HES 152 from the program coordinator. See coordinator for approved programs.

Early Childhood Level 2 Certificate of Completion Requirements:

ECE	110	Intro to Early Childhood Education	3
ECE	112	Growth and Development of Children	3
ECE	114	Child Health Maintenance	3
ECE	250	Child, Family and Community	3
ENG	101	Rhetoric and Composition I	3
Total Semester Credits			**15**

Early Childhood Level 3 Certificate of Completion Requirements:

Fall Semester			
ECE	110	Into to Early Childhood Education	3
ECE	112	Growth and Development of Children	3
ECE	114	Child Health Maintenance	3
ENG	101	Rhetoric and Composition I	3
Spring Semester			
ECE	116	Children with Special Needs	3
ECE	121	Early Childhood Curriculum	3
ECE	250	Child, Family and Community	3
BUS	102	Business Mathematics or	
100 level math class or ECE 220		Math for Young Children	3-4
PSYC	151	General Psychology	3
Total Semester Credits			**27**

Infant Toddler Level 2 Certificate of Completion Requirements:

ECE	110	Into to Early Childhood Education	3
ECE	112	Growth and Development of Children	3
ECE	114	Child Health Maintenance	3
ECE	122	Infant and Toddler Care	3
ENG	101	Rhetoric and Composition I	3
Total Semester Credits			**15**

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Early Childhood Education Electives

ECE	122	Infant and Toddler Care
ECE	200	ECE Leadership & Supervision
ECE	210	Understanding & Guiding Behavior of Young Children
ECE	220	Math for Young Children
Any ECE 299		Special Topics course

Technology Electives

ED	260	Educational Technology
OAT	156	Microsoft Office Suite 1
OAT	180	Word Processing

Career Opportunities

A graduate of the Early Childhood Education program can find employment as a (an):

- Head Start teacher
- Child care worker (certificate with one-year experience or Associate in Applied Science degree).
- Child care director (Associate in Applied Science degree)
- Public school individual/classroom aide (paraprofessional)
- Early childhood special education aide (paraprofessional)

Emergency Medical Technician

swic.edu/emt

Coordinator: Anthony Perez, ext. 5343
Email: Anthony.Perez@swic.edu
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu
Administrative Assistant: Candice Rodgers, ext. 5355

SWIC Emergency Medical Services programs prepare students for varying levels of pre-hospital care in emergency medicine. Currently, SWIC offers two levels of training: Emergency Medical Technician and Paramedic. The most basic level of care is provided by the emergency medical technician.

Under the supervision of a physician via radio communications, an EMT is prepared to care for patients at the scene and during transport to the hospital. The EMT is able to assess a patient's condition and manage various medical and traumatic emergencies.

To become an Illinois licensed EMT, students must be at least 18 years of age and have a high school diploma or high school diploma certificate. They must successfully complete the eight-semester-credit EMS 110 Emergency Medical Technician course and pass either the state or national EMT examination prior to licensure and practice (differences are explained during the course).

For further information regarding the field of Emergency Medicine, refer to the Occupational Outlook Handbook at www.bls.gov/ooh/healthcare/emts-and-paramedics.htm. **Contact the program coordinator, coordinators' assistant, or an academic advisor for more information.**

About the Program

To complete this program students enroll in EMS 110, an eight-semester-credit course that can be completed in one semester. During this course, students attend classroom lectures as well as supervised clinical practice in area hospitals and other health care facilities. Clinical practice includes 36 observation hours in local emergency departments and ambulance services.

Enrollment Into the Course

A. Students must meet program-specific medical requirements and must be able to perform the essential functions of the job with or without reasonable accommodations. The essential functions can be found at http://www.swic.edu/wp-content/uploads/2017/05/Paramedic-Program-Technical-Standards.pdf. Students are encouraged to meet with the Student Accessibility & Support Services to discuss potential issues associated with meeting these requirements at 618-235-2700, ext. 5368.
B. The EMS 110 course is offered at the Belleville, Red Bud and Sam Wolf Granite City campuses as well as off-campus locations.
C. Students must be eligible for ENG 101.
D. Students should check the location and schedule of classes to ensure their availability. Students are responsible for their own transportation and attendance at the clinical facilities assigned by the program. Students should be aware that health insurance is required during clinical practice. Students are personally responsible for any costs incurred for injuries occurring during their clinical practice.
E. Criminal background check, random drug test and name search on government registries which prohibit employment in health care professions are also required prior to clinical practice. Payment for these checks and test are included in lab fees. However, an additional fee will be charged for states other than Missouri/Illinois in which the student has worked or resided since the age of 18 years may be required. Students with positive results from either criminal background check, drug test or listings on prohibitory sites will be dismissed with no refund of tuition or lab fees. See the program coordinator or coordinators' assistant for more information.
F. Students participating in the SWIC EMT program are subject to all provisions of the existing college catalog, EMT student handbook and course syllabus with respect to attendance during the period of their enrollment.

Certificate Emergency Medical Technician (068C)

EMS	110	Emergency Medical Technician	8

Career Opportunities

Once successfully licensed, the EMT may seek employment on an ambulance, in a hospital, or in a setting where EMTs are needed (i.e., security, casinos, industrial plants). In addition, many licensed EMTs further their education by becoming paramedics, nurses, physician assistants, physicians or other health care providers. In fact, some students pursuing advanced degrees are directed to take the EMT course to get some practical patient experience.

According to the U.S. Department of Labor, employment is projected to grow much faster than average as paid emergency medical technician positions replace unpaid volunteers, and competition will be greater for jobs in local fire, police, and rescue squad departments than in private ambulance services. Opportunities are best for those who have advanced certifications.

Average Starting Salary:

Earnings of EMTs and paramedics depend on the employment setting and geographic location as well as the individual's training and experience. Based on survey results of SWIC EMT graduates, the average annual earnings of EMTs and paramedics are between $40,000 and $70,000.

Film and Video Production

swic.edu/film
Coordinator: Dan Cross, ext. 5591
Email: Dan.Cross@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

The Film and Video programs train students in both the technical and aesthetic aspects of Film, Video, and Multimedia production. Students In the AAS degree program will gain hands-on experience in all stages of the film and video production process including writing, directing, acting, voice recording, operating cameras, lights, and audio equipment, video editing and sound design. The certificates are shorter programs focused entirely on Film and Video Production and Editing. All these programs prepare students for professional Media Production jobs including film and video production, audio recording and editing, podcasting, social media production, and other careers requiring good multimedia skills. Most classes are transferable, so these programs also prepare students for transfer to four-year film and media production programs.

Film and Video Production is a very technical discipline which requires strong computer skills, and it is also very collaborative, with plenty of opportunities for interpersonal interaction and communication.

Students do not need any prior experience, do not need to own their own cameras or other film equipment, and do not need departmental permission to enroll in our classes or programs. Interested students can simply sign up for the courses below (though the advanced courses do have prerequisites).

Film and Video
Associate in Applied Science Degree (0059)

First Semester			Semester Credits
ENG	101	Rhetoric and Composition	3
FILM	115	Film Appreciation	3
FILM	140	Video Editing I	3
ART	116	Photography I OR	
MUS	154	Survey of Music Computer Technology	3
Human Relations Elective			3
Total Semester Credits			**15**

Second Semester			Semester Credits
FILM	105	Screenwriting I OR	
MCOM	240	Writing for Media	3
FILM	150	Film and Video Production I	3
FILM	215	Film History	3
FILM	230	Sound Design	3
ART	120	Introduction to Computer Art OR	
MCOM	220	Voiceover: Vocal Production	3
Human Well-Being			2
Total Semester Credits			**17**

Third Semester			Semester Credits
FILM	240	Advanced Post-Production	3
FILM	280	Cinematography	3
One Advanced Media Production Course (CIS 230, FILM 205, 260 or 298, MCOM 220, 230, 240 or 255, or MUS 250)			3
MCOM	201	Introduction to Mass Communication	3
One Elective Course			3
Total Semester Credits			**15**

Fourth Semester			Semester Credits
One Additional Film Studies Course: (FILM 225, 237, 299, POLS 289, 290, 292)			3
FILM	250	Film and Video Production II	3
One Advanced Media Production Course: (CIS 230 or 273, FILM 205, 260 or 298, MCOM 220, 230, 240 or 255, or MUS 250)			3
FILM	290	Film and Video as a Career	3
One Elective Course			3
Total Semester Credits			**15**

Total Program Credits **62**

Video Production Certificate (059A)

			Semester Credits
FILM	105	Screenwriting I -OR-	
MCOM	240	Writing for Media	3
FILM	115	Film Appreciation	3
FILM	140	Video Editing I	3
FILM	150	Film and Video Production I	3
FILM	240	Advanced Post-Production	3
FILM	230	Sound Design	3
FILM	250	Film and Video Production II	3
FILM	280	Cinematography	3
FILM	290	Film and Video as a Career	3
One of the following courses:			
CIS	230	Video Graphics	
CIS	273	Advanced Graphics and Animation	
FILM	260	Documentary Moviemaking	
FILM	205	Screenwriting II	
FILM	298	Special Topics in Film Production	
MCOM	220	Voiceover: Vocal Production	
MCOM	230	Podcast and Radio Production	
MCOM	255	Broadcast Announcing	
MUS	154	Survey of Music Computer Technology	
MUS	250	Basic Digital Recording Techniques	3
Total Program Credits			**30**

Video Editing Certificate (059B)

Students who are only interested in post-production (editing and sound design) may complete the following courses to earn a Certificate in Video Editing:

FILM	140	Video Editing I	3
ART	120	Introduction to Computer Art	3
FILM	240	Advanced Post-Production	3
FILM	230	Sound Design	3
MUS	154	Survey of Music Computer Technology OR	
CIS	230	Video Graphics	3
MUS	250	Basic Digital Recording Techniques OR	
CIS	273	Advanced Graphics and Animation	3
Total Program Credits			**18**

Career Opportunities

The Film and Video AAS degree and certificates prepare students to work in a variety of different careers which require skills in video production. A few SWIC film graduates have gone on to work in the film industry as directors, writers, or editors, and many others have found work doing video production for other industries such as television, marketing, real estate, and social media. Others have become self-employed, creating their own video production companies and working in various freelance situations. Since most of the courses in the Film and Video AAS degree and certificates are transferable, many students choose to transfer to four-year film programs after completing their degree. Former SWIC film students have been accepted to Southern Illinois University- Carbondale, Columbia College in Chicago, Webster University in Webster Groves, Missouri, and many others.

Fire Science

swic.edu/fire-science

Coordinator/Faculty: Chris Frawley, 618-234-5138
Email: Christopher.Frawley@swic.edu
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu

Program Location: Clay Baitman Fire Science Training Center, 1512 Freeburg Ave., Belleville, IL

The Fire Science program includes a two-year curriculum leading to an Associate in Applied Science degree involving 66 semester credits with two options. Students that are not currently active members of a fire department must select the Fire Protection Administration option. Students that are active members of either a full-time, part-time, or volunteer fire department may select the Fire-Rescue Specialist or the Fire Protection Administration option.

The Fire Science program also offers 11 certificate programs which are designed to meet various national fire service training standards. Enrollment in the certificate programs is restricted to active fire department members, rescue team members, or emergency medical service providers.

Many certificate and Fire-Rescue Specialist courses require demonstration of skills that involve strenuous physical activity that may be considered dangerous. These courses may also require the student to provide sophisticated personal protective equipment in order to participate in class activities. The approval of the program coordinator and official sponsorship by the student's fire department or employer may be required for enrollment. **Contact the program coordinator or an academic advisor for more information.**

Articulation Agreements

- SIU-Carbondale – B.S. Public Safety Management

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0057)*

First Year

Fall Semester			**Semester Credits**
ENG	101	Rhetoric & Composition I	3
SOC	153	Introductory Sociology	3
FS	101	Principles of Emergency Services	3
FS	102	Fire Behavior and Combustion	3
FS	110	Fire Prevention	3
Human Well-Being Elective(s)			3
Total Semester Credits			**18**

Spring Semester			**Semester Credits**
COMM	151	Fundamentals of Public Speaking	3
FS	116	Building Construction for Fire Protection	3
FS	131	Fire Protection Systems	3
FS	170	Strategy & Tactics	3
Social Science Elective**			3
Total Semester Credits			**15**

Second Year – Fire Protection Administration Option

Fall Semester			**Semester Credits**
SOC	230	Race and Ethnicity in the United States	3
MGMT	213	Human Relations in the Workplace	3
MGMT	217	Human Resource Management	3
General Humanities Elective**			3
Physical Science Elective**			4
Total Semester Credits			**16**

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Spring Semester			**Semester Credits**
MATH	112	College Algebra	4
CMT	244	Occupation Safety & Health	3
BUS	215	Business Law I	3
Humanities-Fine Arts Elective**			3
Life Sciences Elective***			4
Total Semester Credits			**17**

OR

Second Year – Fire-Rescue Specialist Option

Fall Semester			**Semester Credits**
FS	100	Fire Fighter A	4
FS	115	Fire Fighter B	3
FS	120	Fire Service Vehicle Operator	1
FS	130	Fire Fighter C	2
FS	181	Haz Mat First Responder*	2.5
FS	205	Fire Apparatus Engineer	3
Total Semester Credits			**15.5**

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Spring Semester	**Semester Credits**
Fire Science Approved Electives***	17.5
Total Semester Credits	**17.5**
Total Program Credits	**66**

*Contact Fire Science Coordinator Curt Lougeay for course specifics if planning to transfer with an articulation agreement.

****Fire Science approved electives:** EMS 105, EMS 110, FS 159, FS 160, FS 200, FS 201, FS 210, FS 211, FS 260, FS 262, FS 264, FS 268, FS 280, FS 299, HS 100, AOJ 285

All students must complete graduation degree requirements listed in the front of the blue section for an Associate in Applied Science degree including the requirement for Human Relations coursework. Completion of all courses within the degree with a "C" or better is required.

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Career Opportunities

An A.A.S. graduate of the Fire Science program is prepared to work as a:

- Fire fighter
- Fire inspector
- Public safety officer
- Industrial fire brigade member

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Certificate Programs

The following Fire Science certificate options are only open to active fire department members, rescue team members or emergency medical service providers. The approval of the program coordinator and official sponsorship by the student's fire department or employer may be required for enrollment. Completion of all courses within the degree with a "C" or better is required.

Fire Fighter I & II (057A)*

FS	100	Fire Fighter A	4
FS	115	Fire Fighter B	3
FS	130	Fire Fighter C	2
FS	181	Hazardous Materials First Responder*	2.5
Total Credits			**11.5**

Fire Apparatus Engineer (057C)

FS	120	Fire Service Vehicle Operator	1
FS	205	Fire Apparatus Engineer	3
Total Credits			**4**

Fire Service Instructor I (057D)

FS	200	Fire Service Instructor I	3
Total Credits			**3**

Fire Service Instructor II (057F)

FS	210	Fire Service Instructor II	3
Total Credits			**3**

Fire Service Officer I (057E)*

FS	200	Fire Service Instructor I*	3
FS	201	Fire Officer I*	3
Total Credits			**6**

Fire Service Officer II (057G)

FS	210	Fire Service Instructor II	3
FS	211	Fire Officer II*	3
Total Credits			**6**

Haz Mat First Responder (057H)*

FS	181	Hazardous Materials First Responder*	2.5
Total Credits			**2.5**

Vehicle Rescue Operations (057J)

FS	260	Vehicle Rescue Operations	3
Total Credits			**3**

Rope Rescue I & II (057L)

FS	262	Rope Rescue I & II	3
Total Credits			**3**

Confined Space Rescue I & II (057N)

FS	262	Rope Rescue I & II	3
FS	264	Confined Space Rescue I & II	3
Total Credits			**6**

Water Rescue I & II (057Q)

FS	262	Rope Rescue I & II	3
FS	268	Water Rescue I & II	3
Total Credits			**6**

Geospatial and Aeronautical Information Systems

swic.edu/gai

For all GIS Classes
Coordinator: Carolyn Myers, ext. 5404
Email: Carolyn.Myers@swic.edu
Faculty: Jeff Arnold, ext. 5412
Email: Jeff.Arnold@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

For all AVIA & AVG Classes
Coordinator/Faculty: Keith Mueller, ext 5683
Email: Keith.Mueller@swic.edu
Dean: Dr. Travis Jumper, ext. 7457
Email: Travis.Jumper@swic.edu

This program is designed to train individuals to become grounded in GIS and AIS technology to make informed use of existing GIS and AIS applications, and to gain skills necessary to construct new applications utilizing data capture, analysis, modeling and cartographic representation. GIS and AIS data are becoming an integral component in business, healthcare, state and local government, insurance, law enforcement, and many other industries. See the Program Coordinator or an Academic Advisor for more information.

Note: this program is currently being revised so please contact Jeff Arnold (GIS) or Keith Mueller (AIS) for more information

Certificate Programs

Geospatial Information Systems (084B)

The GIS curriculum is designed to train individuals to become grounded in GIS technology to make informed use of existing GIS applications, and to gain skills necessary to construct new applications utilizing data capture, analysis, modeling and cartographic representation. GIS data is becoming an integral component in business, healthcare, state and local government, insurance, law enforcement, and many other industries.
Successful graduates can utilize the certificate to advance a career, to enhance skills, or to use in a current job setting.

GIS	100	Introduction to Mapping and GIS	3
GIS	101	Visual Design For GIS	3
GIS	102	Remote Sensing and Earth Imagery	3
GIS	103	GIS Data Management and Analysis	3
AVIA	101	Private Pilot Flight Theory	4
AVIA	126	UAS Pilot Certificate	1
Total Credits:			**17**

Aeronautical Information Specialist (012G)

The Aeronautical Information Specialist Option provides the student with the ability to enter the exciting world of Aerospace careers. He/she will become highly specialized in the area of aeronautical navigation with worldwide aeronautical charts that include enroute, Terminal Instrument Procedures, Instrument Approach Procedures, Departure Procedures and Standard Terminal Arrivals. Tasks include chart development, verifying accuracy, adding updates along with a multitude of related tasks. Technicians utilize a variety of high-tech data resources including satellite imaging. Aeronautical Infomation Specialists are highly skilled and well compensated. They are employed by a wide variety of Government and Aerospace organizations such as Boeing, Garmin, Federal Aviation Administration, Jeppesen, National Geospatial Agency and many more and related contractors located throughout the U.S. The St. Louis area will be home to one of the largest new facilities in the U.S. that utilizes the specialized skills contained within this career track.

AVG	101	Evolution of the AIS	3
AVG	102	Intro & App of Aero Nav Syst	3
AVG	105	Intro to Aviation Sfty Mgmt Sys	3
AVG	210	Aero Chart Legend Interp	3
AVIA	101	Private Pilot Flight Theory	4
AVIA	126	UAS Pilot Certificate	1
Total Credits:			**17**

Health Information Technology

swic.edu/hit

Coordinator/Faculty: Bettye Brock, ext. 5385
Email: Bettye.Brock@swic.edu
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu
Administrative Assistant: Candice Rodgers, ext. 5355

Articulation Agreements

- Illinois State University – BS Health Information Administration
- McKendree - BA Healthcare Management

Career Overview

The SWIC Health Information Technology program prepares graduates to work as medical record/health information technicians. Health information technicians have limited direct patient contact. They ensure the quality of medical records/health information by verifying the completeness, accuracy and proper entry of patient information into computer systems. They use a universal coding system to assign diagnostic and procedural codes to patient information. They also use software applications to assemble and analyze patient data for the purpose of improving patient care or controlling costs. They ensure the patient's interests in matters of privacy and security, information release and guidelines regarding record access. For further information regarding the field of Health Information Technology, refer to the American Health Information Management Association website at www.hicareers.com and/or www.ahima.org.

About the Program

- Two-year degree, Associate in Applied Science degree
- Complete program online

Certification Requirements

Upon successful completion of the HIT curriculum, graduates are awarded an Associate in Applied Science degree in Health Information Technology and are eligible to take the American Health Information Management Association certification examination to become a Registered Health Information Technician. These examinations are offered throughout the year at various sites in the state and country.

Program Accreditation

The SWIC Health Information Technology program is accredited by the Commission on the Accreditation for Health Informatics and Information Management. The program's curriculum is guided by the standards developed by the association. The accreditation status means SWIC has met the standards required and helps to assure the public that the curriculum will graduate competent clinicians. It also allows the college's HIT graduates to take the certification examination.

Program Location

The Health Information Technology program consists of general education course, HIT-prefix courses and assigned clinical experience courses. Specific locations depend on the course type.

1. The general education courses can be taken at the Belleville, Red Bud or Sam Wolf Granite City campuses or online. They can be completed prior to program admission.
2. The HIT courses are only offered online.
3. The Professional Practice Experience coursework is completed at hospital/clinical facilities, health information-related vendors/companies or other applicable sites within the health care delivery system throughout southern Illinois or the St. Louis region. Students may be required to travel outside the college district for clinical experience courses. Specific Professional Practice Experience placement cannot be guaranteed.
   Whether students are attending full time or part time, all students must be available to complete the externship/practicum portion of the program which is a total of 80 hours of externship/practicum.

Student should check location and schedule of classes to ensure availability and access. Students are responsible for their own transportation and attendance at any of the classes and PPE(s) assigned by the program.

Orientation & Performance

Enrolled students must attend all required orientation sessions and be able to perform the essential functions of the job with or without reasonable accommodations. The essential functions can be found at swic.edu//hit-performance-essentials. Enrolled students are encouraged to contact the Student Accessibility & Support Services at 618-235-2700, ext. 5368, to discuss potential issues associated with meeting these requirements.

Health Insurance

Health Insurance is required during PPE clinical courses. Students are personally responsible for any costs incurred for injuries occurring during their clinical experience courses.

Medical/Health Requirements

HIT students will be required to show proof of immunizations, tuberculosis test, flu shot, physical examination, covid vaccination and health insurance coverage before beginning any PPE/clinical experience course. These requirements do not have to be fulfilled until further explained at the program orientation meeting.

Background Checks and Drug Testing

Criminal background check, random drug test and name search on government registries which prohibit employment in health care professions are required in our health science programs. Program start is contingent upon meeting deadlines for completion of the screening and results which allow the student to participate in the clinical portion of the program. Details and directions for accessing and purchasing online screening for background checks are shared with accepted students. Background checks are conducted for every state in which the student has worked or resided since the age of 18 years. Conviction of offenses in the following areas normally prohibit the student from participation in the clinical portion of the program and will result in program dismissal: assault, sexual offenses, murder, burglary, arson, and robbery.
Refer to the Health Care Worker Background Check Act for a complete list of offenses at www.idph.state.il.us/nar/.

To participate in the clinical portion of the program, students with "disqualifying" offense(s) will be asked to produce a waiver from the Illinois Department of Public Health for identified offenses. To request a waiver application from IDPH, students may call 217-785-5133. Not all clinical sites accept the IDPH waiver (i.e., Missouri sites), therefore required clinical sites are also surveyed to determine if clinical placement can be accomplished. If a waiver cannot be produced prior to clinicals/program start or survey results indicate clinical sites prohibit the conviction, the student will be removed from the program.

In addition, positive results from the drug test or student listing on prohibitory government registry will also result in dismissal from the program. Note: Positive drug testing results from the use of illegal drugs or prescription medication which the student does not have a prescription. Marijuana, recreational/medical are also considered a positive drug testing result. Dismissal for positive criminal background check, drug test, or listing on a government registry does not qualify students for refund of tuition or lab fees. Students who have concerns regarding their status with the above regulations are encouraged to discuss the matter with the program coordinator or the coordinator's assistant prior to seeking admission.

Graduation Requirements

Students must follow the requirements for graduation and must meet all course, degree and sequencing requirements specified. Students are responsible for program policies as listed in each year's HIT Student Handbook. Students who fail to meet program-specific requirements will be dropped from the program and may be required to re-apply and compete for admission in the succeeding year.

A grade of C or better is required for all courses in the degree.

Associate in Applied Science Degree (0023)

First Year

Fall Semester			**Semester Credits**
BIOL	105	Human Biology I	4
ENG	101	Rhetoric & Composition I	3
HIT	101	Health Information Intro	2
HIT	110	Health Information Nomenclature I	2
HIT	130	Intro to Computers for HIT	3
Total Semester Credits			**14**

Spring Semester			**Semester Credits**
MATH Selection			3-5
HIT	151	Pathophysiology	3
HIT	160	Health Data Management	3
HIT	170	Health Information Nomenclature II	2
HIT	161	Microcomputer Applications in HIT	3
Human Relations Elective			3
Total Semester Credits			**17-19**

Summer Semester			**Semester Credits**
HIT	245	Pharmacology for HIT	2
Total Semester Credits			**2**

Course Sequence

The program can be completed in four semesters; however, it is recommended that students who work take General Education Courses (non-HIT-prefixed courses) prior to entrance into the program. These courses include: BIOL 157, ENG 101, approved electives, BIOL 158, COMM 151, PSYC 151, Human Relations Course*. See Course Description Guide (yellow pages of catalog) for the appropriate requisite. All HIT-prefixed courses must be completed before or during semesters indicated, unless permission is given by the program coordinator.

Second Year

Fall Semester			**Semester Credits**
PSYC	151	General Psychology	3
COMM	151	Fundamental of Public Speaking	3
HIT	200	Health Care Delivery	4
HIT	210	Health Statistics	3
HIT	220	Classification Systems I	4
Total Semester Credits			**17**

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Spring Semester			**Semester Credits**
HIT	250	Legal Aspects of HIT	2
HIT	260	PPE: Professional Practice	2
HIT	270	Health Information Management	4
HIT	240	Classification Systems II	3
HIT	280	Advanced Coding **OR**	
HIT	285	Advanced Data Analytics	3
HIT	290	HIT Capstone	1
Total Semester Credits			**15**
Total Program Credits			**65-67**

Math Selections:

ACCT	105	Basic Accounting Procedures	3
BUS	102	Business Mathematics	3
BUS	205	Economic and Business Statistics	4
MATH	95, 97, 107, 11, 112, 113, 114, 191, 203, 213		4-5

Career Opportunities

Although most HITs work in hospitals, there are also opportunities in office-based physician practices, nursing homes, home health agencies, mental health facilities, public health agencies, health information-related vendors/companies, correctional facilities, zoos and health information exchanges. Any organization that uses patient data or health information such as pharmaceutical companies, law and insurance firms, and health product vendors may employ health information professionals. Job opportunities in this field are good.

Average Starting Salary

The most recent AHIMA survey indicates the average annual salary across the nation is $60,930. Locally, a HIT average starting salary is $40,110 annually, depending on the size and location of the health care facility.

Heating, Ventilation, Air Conditioning and Refrigeration

swic.edu/hvar

Coordinator/Faculty: Keith Otten, ext. 5175
email: Keith.Otten@swic.edu
Dean: Dr. Travis Jumper, ext. 7457
Email: Travis.Jumper@swic.edu

The SWIC Heating, Ventilation, Air Conditioning and Refrigeration program prepares students for careers in the HVAR industry. The industry is changing and trained personnel are in great demand.

Students may earn an Associate in Applied Science degree in HVAR or an HVAR Certificate. In addition to the AAS degree that can be earned at SWIC, students may continue their education at Ferris State University and earn an engineering degree in HVAR. The Capstone Program is another option available through Southern Illinois University Carbondale.

All students entering the AAS degree program are required to take the Placement Test prior to entering the program.

Contact the program coordinator or academic advisor for more information.

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0037)

First Year

Fall Semester			**Semester Credits**
ENG	101	Rhetoric & Composition I	3
HVAR	100	Fitting, Fusion and Fabrication	4
HVAR	101	Refrigeration & Air Conditioning Principles I	4
HVAR	103	Basic Electrical Controls & Systems	4
Human Relations Course			3
Total Semester Credits			**18**

Spring Semester			**Semester Credits**
GT	105	Introduction to Technical Math **OR**	3
MATH	112	College Algebra (4) **OR** higher level Math	
HVAR	152	Advanced Refrigeration & A.C. Principles	4
HVAR	153	Heating Fundamentals	4
HVAR	201	Psychrometrics & Load Calculations	4
Total Semester Credits			**15**

Summer Semester			**Semester Credits**
HVAR	256	Advanced Elect. Controls & Systems*	4
HVAR	263	Heat Pumps* **OR**	2
HVAR	280	Commercial Cooking Equipment I*	
Total Semester Credits			**6**

Second Year

Fall Semester			**Semester Credits**
HVAR	202	Commercial Refrigeration I	4
HVAR	208	Intro to HVAR Computer Applications	1.5
HVAR	211	Distribution Panels & Elect. Building Wiring	3
ENG	103	Technical Communication **OR** Communications Course	3
HES	151	Personal Health and Wellness **OR**	2
HES	152	First Aid-Medical Self-Help	
Humanities **AND/OR** Social Science course			3
Total Semester Credits			**16.5**

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Spring Semester			**Semester Credits**
HVAR	251	Commercial Refrigeration II	4
HVAR	252	Air Conditioning and Htg Sys. Design	4
CMT	244	Occupational Safety & Health I	3
HVAR	258	Natl Electrical Code Interpretation	3
HVAR	260	Refrigerant Transition/Recovery Cert	.5
HVAR	262	Air Delivery Systems Materials & Methods	1
Total Semester Credits			**15.5**

Total Program Credits			**71**

HVAR Certificate (0038)

HVAR	100	Fitting, Fusion and Fabrication	4
HVAR	101	Refrig & A.C. Principles I	4
HVAR	103	Basic Elect. Controls and Systems	4
HVAR	152	Advanced Refrig. & A.C. Principles	4
HVAR	153	Heating Fundamentals	4
HVAR	201	Psychrometrics & Load Calculations	4
HVAR	202	Commercial Refrigeration I	4
HVAR	263	Heat Pumps* **OR**	2
HVAR	280	Commercial Cooking Equipment*	
HVAR	251	Commercial Refrigeration II	4
HVAR	252	Air Conditioning & Heating Sys. Design	4
HVAR	256	Advanced Electrical Controls*	4
HVAR	258	Natl Electrical Code Interpretation	3
HVAR	260	Refrigerant Transition/Recovery Cert	.5
Total Credits			**45.5**

Students wishing to transfer to Ferris State University must take PHYS 151 and MATH 112.
All students must complete graduation degree requirements listed in the front of the blue pages of this catalog for an Associate in Applied Science degree. Students in the degree program must satisfy the Illinois-mandated constitution requirement for the A.A.S. degree.
Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.
*Only offered as a summer course.

Career Opportunities

A graduate of the Heating, Ventilation, Air Conditioning and Refrigeration program is prepared to work as a(n):

- Heating equipment technician
- Air conditioning and refrigeration technician
- HVAR equipment salesperson
- HVAC designer
- Commercial cook equipment repair person

All of the above careers could specialize in:

- Commercial applications
- Residential applications
- Design applications

Horticulture

swic.edu/horticulture

Horticulture Coordinator/Faculty: Kurt Range, ext 5135
Email: Kurt.Range@swic.edu
Cannabis Coordinator/Faculty: Shawn Rakers, ext. 5770
Email: Shawn.Rakers@swic.edu
Dean: Dr. Kimberly Cherry-Vogt, ext. 5050
Email: Kimberly.Cherryvogt@swic.edu

A career in horticulture provides opportunities for employment as a landscape designer; a golf course superintendent; grounds superintendent for a school, college, park, industrial complex or municipality; turf manager for a construction contractor, country club or highway department; retail or wholesale greenhouse operator; floral designer; garden center manager and fruit/vegetable manager.

Students not able to perform the essential functions of the job of a horticulturist may not be able to pass the required courses.

The Cannabis Industry Operations program prepares students for a variety of jobs in the expanding cannabis industry. Students in this program are equipped with the foundational knowledge of cannabis dispensary operations, cultivation center operations, and basic compliance, safety and security standards to pursue immediate employment in the cannabis industry. Due to State of Illinois age restrictions to work in the industry, it is highly recommended students are at least 21 years of age to enroll so they may enter into the workforce post-graduation.

The Cannabis Cultivation and Processing program provides students with an in-depth view of the botany of the cannabis plant, cannabinoid pharmacology, and vaeious cultivation and extraction techniques used in commercial production. Students will get hands-on experience in vaeious plant management methods and utilize current technology emmployed by industry best practices. Due to State of Illinois age restrictions to work in the industry, it is highly recommended students be at least 21 years old to enroll so they may enter the workforce post-graduation.
See the program coordinator or an academic advisor for more information.

Articulation Agreements

- SIU-Carbondale – BS Horticulture Landscape Specialization
- SIU-Carbondale – BS Horticulture Production Specialization

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0005)

Courses common to all options

First Year

Fall Semester			**Semester Credits**
ENG	101	Rhetoric & Composition I OR	
COMM	151	Public Speaking OR	
COMM	155	Interpersonal Communication	3
HORT	102	Intro to Horticulture	3
HORT	112	Media and Fertility	4
HORT	132	Garden Center & Nursery Management	4
HES	151	Personal Health and Wellness OR	
HES	152	First Aid Medical Self Help	2
Total Semester Credits			**16**

Spring Semester			**Semester Credits**
Business or Math Selection			3-4
Science Selection			4-5
HORT	152	Greenhouse Management	4
Horticulture Elective			3
Total Semester Credits			14-**16**

Summer Semester			**Semester Credits**
HORT	289	Supervised Intern Employment	4
Total Semester Credits			**4**

Second Year

Fall Semester			**Semester Credits**
HORT	215	Horticulture Diagnostics	3
Human Relations Elective			3
General Education Elective			3
Horticulture Elective			3
Horticulture Elective			2-4
Total Semester Credits			**14-16**

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Spring Semester			**Semester Credits**
HORT	228	Computer-aided Landscaping	3
HORT	298	Horticultural Project	2
Horticulture Elective			3
Horticulture Elective			2-4
Horticulture, Agriculture, OR General Education elective			3
Total Semester Credits			**13-15**
Total Program Credits			**61-67**

Horticulture Electives:

AGRI	121	Soil Science	4
AGRI	135	Crop Science	4
HORT	120	Container Gardening	2
HORT	135	Turf Management	4
HORT	136	Identification & Use of Ornamentals	3
HORT	165	Floral Design	3
HORT	175	Home Gardening	3
HORT	195	Indoor Plant Culture and Gardening	3
HORT	226	Landscaping	3
HORT	235	Advanced Turf Management	3

HORT	237	Arboriculture	3
HORT	242	Fruit Production	3
HORT	252	Advanced Greenhouse Management	3
HORT	262	Small Fruit Production	3
HORT	265	Advanced Floral Design	3
HORT	275	Grounds Maintenance	4
HORT	280	Vegetable Gardening	3
HORT	287	Supervised Intern Employment	2
HORT	288	Supervised Intern Employment	4
HORT	289	Supervised Intern Employment-variable	1-6
HORT	299	Special Topics in Horticulture-variable	4-6
CAN	101	Cannabis Industry & Law	3
CAN	102	Medical Cannabis Use & Research	3
CAN	130	Cannabis Operations	3
CAN	220	Cannabis Cultivation	3
CAN	240	Pharmacology of Cannabis	3
CAN	250	Cannabis Products and Processing	3

Business or Math Selections:

ACCT	105	Basic Accounting Procedures	3
ACCT	106	Introduction to QuickBooks	3
BUS	101	Introduction to Business	3
BUS	102	Business Mathematics	3
BUS	205	Economic and Business Statistics (or MATH 191)	4
MGMT	201	Entrepreneur Basics	3
MGMT	213	Human Relations in the Workplace	3
MGMT	214	Principles of Management	3
MGMT	219	Small Business Management	3
MATH	107, 111, 112, 113, 114, 203, 204, 213		4-5

Science Selections:

BIOL	100	General Biology: Ecology, Evolution, and Genetics	4
BIOL	101	Principles of Biology I	4
BIOL	151	Plants and Society	4
CHEM	100	Chemistry in Everyday Life	4
CHEM	101	Introductory Chemistry	5
CHEM	103	Introductory Organic & Biological Chemistry	5
CHEM	105	General Chemistry I	5

Horticulture Certificates:

General Horticulture (0006)

HORT	102	Intro to Horticulture	3
HORT	112	Media & Fertility	4
HORT Electives			9
Total Certificate Credits			**16**

Cannabis Industry Operations (006B)

BUS	101	Introduction to Business	3
CAN	101	Cannabis Industry & Law	3
CAN	102	Medical Cannabis Use & Research	3
CAN	130	Cannabis Operations	3
Total Certificate Credits			**12**

Cannabis Cultivation and Processing (006C)

First Semester

CAN	101	Cannabis Industry & Law	3
CAN	102	Medical Cannabis Use & Research	3
CAN	130	Cannabis Operations	3
HORT	102	Intro to Horticulture	3
HORT	112	Media and Fertility **OR**	
AGRI	121	Soil Science	4
Total Semester Credits			**16**

Second Semester

CAN	220	Cannabis Cultivation	3
CAN	240	Pharmacology of Cannabis	3
CAN	250	Cannabis Products and Processing	3
HORT	152	Greenhouse Management	3
BIOL	151	Plants and Society **OR**	
AGRI	135	Crop Science	4
Total Certificate Credits			**32**

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Career Opportunities

A graduate of the Horticulture program is prepared to work as a:

- Landscape designer
- Golf course superintendent
- Grounds superintendent for a school, college, park, industrial complex or municipality
- Turf manager for a construction contractor, country club, highway department, sod farm or landscape contractor
- Retail or wholesale greenhouse operator
- Floral designer
- Garden center manager
- Fruit and vegetable retail or wholesale manager

A graduate of the Cannabis Industry Operations program is prepared to work as a:

- Budtender
- Dispensary Agent
- Packaging Associate
- Security Agent
- Facilities Associate

A graduate of the Cannabis Culitivation and Processing program is prepared to work as a:

- Cultivation Technician
- Trimmer
- Processing Technician
- Fulfillment Agen
- Cultivation Assistant Manager
- Lab Assistant
- Fertigation Specialist
- IPM Specialist
- Inventory Control Agent

Human Services Technology

swic.edu/human-services

Coordinator/Faculty: Susan Holbrook, ext. 5198
Email: Susan.Holbrook@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

This online program is designed for students as preparation for advanced study or employment in the human services profession. The Associate in Applied Science online degree program prepares students for paraprofessional employment in the human services field. Students have the option of taking courses in a variety of areas or specializing in youth care, elder care or criminal justice social services.

Many of the courses in this program will also apply toward the first two years of a baccalaureate degree in social work or in a related human services field. Due to differences in four-year institutional program requirements, students are encouraged to consult the program coordinator or an academic advisor for transfer information.

For those already employed in the human services field, courses apply toward continuing education requirements.

Articulation Agreements

- Greenville University – BS Social Work
- Lindenwood University - BSW Social Work
- McKendree University
  - BA Psychology
  - BA Sociology
  - BA Sociology: Children and Families
  - BA Sociology:Criminal Justice
- Southern Illinois University Edwardsville - BSW
- Southern Illinois University Carbondale - BSW
- University of Illinois - BSW
- University of Missouri-St. Louis - BSW Social Work

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0078)

First Year

Fall Semester			**Semester Credits**
BIOL	105	Human Biology **OR**	4
HRO	100	Medical Terminology **AND**	1
HRO	120	Pharmacology	3
ENG	101	Rhetoric & Composition I	3
HMS	100	Introduction to Human Services	3
PSYC	151	General Psychology	3
SOC	153	Introductory Sociology	3
Total Semester Credits			**16**

Spring Semester			**Semester Credits**
ENG	102	Rhetoric and Composition II	3
HMS	200	Human Services Applications	3
PHIL	152	Ethics	3
SOC	203	Social Problems	3
COMM	155	Interpersonal Communication	3
HES	152	First Aid—Medical Self Help	2
Total Semester Credits			**17**

Second Year

Fall Semester			**Semester Credits**
HMS	250	Human Services Seminar	3
BUS	102	Business Mathematics	3
SOC	230	Race and Ethnicity **OR**	3
ECON	201	Principles of Macroeconomics **OR**	
LIT	215	Multicultural American Literature **OR**	
PSYC	295	Social Psychology **OR**	
SOC	255	Sociology of the Family	
Electives (Any 100-level or higher courses except PE activity classes)			6
Total Semester Credits			**15**

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Spring Semester			**Semester Credits**
HMS	280	Human Services Practicum	4
POLS	150	Intro to American Government	3
SOC	265	Aging and Society	3
Electives (Any 100-level or higher courses except PE activity classes)			3
Total Semester Credits			**13**

Total Program Credits **61**

Optional areas of specialization:

Youth Care

AOJ	153	Juvenile Delinquency
ECE	112	Growth and Development of Children
ECE	116	Children with Special Needs
PSYC	250	Child Development
PSYC	251	Adolescent Development
SOC	255	Sociology of the Family

Elder Care

HRO	150	Fundamentals of Nutrition
PSYC	210	Life Span Development
PSYC	253	Adult Development and Aging
PSYC	254	Death and Dying

Criminal Justice Social Services

AOJ	100	Intro to Administration of Justice
AOJ	160	Criminology
AOJ	203	Criminal Law and Administration of Justice
AOJ	251	Rules of Criminal Evidence
SOC	210	Criminological Theory

Career Opportunities

The Associate in Applied Science program prepares students for employment as entry-level, paraprofessional human services workers. Human services workers are employed by public and private social service agencies and organizations in many specialized areas such as:

- Youth care
- Elder care
- Criminal Justice

Industrial Electricity Programs

swic.edu/electrical

Coordinator: Nicholas Weatherly, ext. 7305
Email: Nicholas.Weatherly@swic.edu
Dean: Dr. Travis Jumper, ext. 7457
Email: Travis.Jumper@swic.edu

Developing, building, installing and maintaining ever-expanding and increasingly complex electrically-driven technologies will require well-trained electrical technicians who have a solid foundation and skills in electrical and electronic theories, devices, equipment and systems. These skilled technicians are needed and will continue to be needed in the future at all levels from product development through maintenance. The Industrial Electricity program at SWIC is designed to provide students with the necessary skills and knowledge to become employed as an in-demand electrical technician.

Employers value the balanced treatment of topics included in the college's Industrial Electricity curriculum. Students cover the spectrum from basic electrical concepts, to operation and application of common electrical/electronic devices, to current trends in industrial and electronic equipment, systems and design, to estimating of electrical systems. Employers know a graduate of the Industrial Electricity program can function in a real-world setting, has the foundation of electrical knowledge and skills required to easily adapt to and learn employers' particular equipment and systems, and can handle the lifelong learning required of today's technician.

Additionally, because of the universal nature and application of electricity and electronics, graduates who have a strong foundation in the electrical/electronics field can easily expand their skills and knowledge into other career areas to become multi-skilled craftsman.

Students can earn a Certificate of Proficiency or Associate in Applied Science degree. After graduation, a student will be qualified for entry- level employment in any aspect of the electrical/electronics career field that involves the development, design, estimation, manufacture, test, installation, repair and maintenance of electrical and electronic equipment and systems.

Math and English Course Placement:
All degree-seeking students are required to be assessed and placed in the appropriate math and/or English classes. For more information, please refer to the Math and English Course Placement section in this catalog.

In addition, a student can earn a bachelor's degree by transferring to a college which accepts the Associate in Applied Science degree and offers the Bachelor of Science in technology or comparable degree.

Articulation Agreements

AAS Industrial Electricity:

- SIUC – BS Electrical Engineering Technology
- SIUC – BS Industrial Management & Applied Engineering

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Industrial Electricity
Associate in Applied Science Degree (0053)

First Year

Fall Semester			**Semester Credits**
EET	100	Electrical Orientation	.5
EET	101	Intro to Electricity & Electronics	3
EET	102	Principles of Magnetism & AC	3
GT	104	Math for Electricity and Electronics **OR**	**3**
MATH	112	College Algebra (4)	
ENG	101	Rhetoric & Composition I	3
Humanities **OR** Social Science Course Elective			3
Human Well-Being Elective			2
Total Semester Credits			**17.5**

Spring Semester			**Semester Credits**
EET	200	Digital Electronic Circuits	3
EET	131	Electrical Wiring Principles	3
EET	121	Electronic Devices and Circuits	3
IML	119	Mechanical Systems	3
Communications Course Elective			3
Total Semester Credits			**15**

Summer Semester			**Semester Credits**
EET	242	Electrical Control Systems I	3
Human Relations Elective			3
Total Semester Credits			**6**

Second Year

Fall Semester			**Semester Credits**
EET	243	NEC for Industrial Commercial	3
EET	240	Motors and Drives	3
EET	244	Electrical Control Systems II	3
EET	235	Programmable Logic Controllers	3
Industrial Electricity Electives			3
Total Semester Credits			**15**

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Spring Semester			**Semester Credits**
EET	246	Power Generation/Distribution	3
EET	239	Advanced PLCs	3
Industrial Electricity Electives			9
Total Semester Credits			**15**

Total Program Credits **68.5**

Industrial Electricity Electives			Semester Credits
EET	201	Wind & Solar Power Installation and Maintenance	3
EET	205	Digital Electronic Circuits II	3
EET	210	Introduction to Microprocessors	3
EET	225	Microprocessor Interfacing	3
EET	231	Introduction to Robotics	3
EET	232	Instrumentation Fundamentals	3
EET	234	Instrumentation Systems	3
EET	238	Special Purpose Devices and Wiring	3
EET	247	DC Crane Controls	3
EET	250	Microcomputer Maintenance – Beginning	3
EET	252	Microcomputer Maintenance – Intermediate	3
EET	255	Microcomputer Maintenance – Advanced	3
EET	260	Communication Electronics I	3
EET	269	Electrical and Electronics Capstone	3
EET	290	Supervised Internship I	2-4
EET	298	Electrical Print Reading	2
EET	299	Special Topics Electricity/Electronics	.5-4
NETW	101	Introduction to Networking	3
IDP	276	Industrial Hydraulics I	3
IML	119	Mechanical Systems	4
PHYS	151	College Physics I	5
PHYS	152	College Physics II	5
MATH	112	College Algebra	4
MATH	114	Trigonometry	3

CIS Any Computer Information Systems Course

Certificate Programs

Industrial Electricity Certificate (0054)

EET	100	Electrical Orientation	.5
EET	101	Intro to Electricity & Electronics	3
EET	102	Principles of Magnetism & AC	3
EET	121	Electronic Devices and Circuits	3
EET	131	Electrical Wiring Principles	3
EET	200	Digital Electronics Circuits I	3
EET	240	Motors and Drives	3
EET	242	Electrical Control Systems I	3
EET	244	Electrical Control Systems II	3
EET	246	Power Generation/Distribution	3
EET	235	Programmable Logic Controllers	3
GT	104	Math for Electricity and Electronics **OR**	3
MATH	112	College Algebra (4)	
Total Credits			**33.5**

Career Opportunities

A graduate of the Industrial Electrician program is prepared to work in any of the following areas:

Industrial Electrician Program

- Industrial maintenance electrician
- Electrical repair technician
- Electrical and electronics installer and repairer, commercial and industrial equipment
- Industrial electrician
- Industrial electrical equipment repairman
- Electrical equipment and systems repairman

Microcomputer Hardware Maintenance Certificate (017C)**

EET	250	Microcomputer Maintenance – Beginning	3
EET	252	Microcomputer Maintenance – Intermediate	3
EET	255	Microcomputer Maintenance – Advanced	3
NETW	101	Introduction to Networking	3
Total Credits			**12**

**Entry in the Microcomputer Hardware Maintenance Certificate program requires basic electronics courses or program coordinator approval.

Career Opportunities

A graduate of the Microcomputer Hardware Maintenance Certificate program is prepared to work in any of the following areas:

Microcomputer Hardware Maintenance Program

- Computer repair technician
- Computer service technician
- Computer, automated teller, and office machine repairer
- Customer service technician

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Industrial Maintenance Mechanics

swic.edu/maint-mech-industrial

Coordinator: Nicholas Weatherly, ext. 7305
Email: Nicholas.Weatherly@swic.edu
Dean: Dr. Travis Jumper, ext. 7457
Email: Travis.Jumper@swic.edu

The Industrial Maintenance Mechanics program prepares students with the skills and experience necessary to enter the workforce as an entry-level mechanic in an industrial facility. Students will learn multiple disciplines which include machining, pipefitting, mechanical, welding and electricity. Industrial maintenance mechanics maintain and repair a variety of equipment used in many different plants such as steel mills, oil refineries, power plants, and food and beverages industries. Because factories and other facilities cannot afford to have machinery out of service for long periods, industrial maintenance mechanics are there to keep the equipment maintained and running.

Articulation Agreements

- SIUC – BS Industrial Management & Applied Engineering

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (053D)

Program Requisite			Semester Credits
EET	100	Electrical Orientation	.5
PMT	100	Precision Machining Introduction	.5

First Year

Fall Semester			Semester Credits
PMT	101	Intro to the Machine Trades	3
PMT	102	Intermediate Machining	3
IDP	276	Industrial Hydraulics I	3
IML	119	Mechanical Systems	3
IML	120	Mechanical Blueprint Reading I	2
ENG	101	Rhetoric & Composition I	3
Total Semester Credits			**18**

Spring Semester			Semester Credits
IDP	116	Industrial Pipefitter A	3
EET	101	Intro to Electricity/Electronics	3
EET	102	Principles of Magnetism & AC	3
EET	241	Electrical Power, Motors and Controls	3
EET	243	NEC for Industrial/Commercial	3
GT	104	Math for Electronics **OR**	3
GT	105	Intro to Technical Mathematics	
Total Semester Credits			**18**

Summer Semester			Semester Credits
IML	125	Industrial Maintenance Welding	3
HES	152	First Aid-Medical Self Help	2
Total Semester Credits			**5**

Second Year

Fall Semester			Semester Credits
EET	131	Electrical Wiring Principles	3
EET	200	Digital Electronic Circuits	3
IML	133	Rigging (Industrial)	2
Communications Course (COMM 151)			3
Social Science Course (HIST 181)			3
Total Semester Credits			**14**

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Spring Semester			Semester Credits
EET	235	Programmable Logic Controllers	3
EET	239	Advanced PLCs	3
EET	232	Instrumentation Fundamentals	3
Human Relations Course (SOC 153)			3
Total Semester Credits			**12**

Total Program Credits **67**

Certificate Programs

Industrial Maintenance Mechanical Certificate (054D)

			Semester Credits
PMT	100	Precision Machining Introduction	.5
PMT	101	Intro to the Machine Trades	3
PMT	102	Intermediate Machining	3
GT	105	Intro to Technical Mathematics	3
IML	119	Mechanical Systems	3
IDP	276	Industrial Hydraulics I	3
IML	120	Mechanical Blueprint Reading I	2
IDP	116	Industrial Pipefitting A	3
IML	125	Industrial Maintenance Welding	3
IML	133	Industrial Rigging	2
Total Credits			**25.5**

Industrial Maintenance Mechanics Electrical Certificate (055D)

			Semester Credits
EET	100	Electrical Orientation	.5
EET	101	Intro to Electricity/Electronics	3
EET	102	Principles of Magnetism & AC	3
EET	241	Electrical Power, Motors and Controls	3
EET	243	NEC for Industrial/Commercial	3
EET	131	Electrical Wiring Principles	3
EET	200	Digital Electronic Circuits	3
EET	235	Programmable Logic Controllers	3
EET	239	Advanced PLCs	3
EET	232	Instrumentation Fundamentals	3
GT	104	Math for Electronics	3
Total Credits			**30.5**

Legal Studies

swic.edu/paralegal

Coordinator/Faculty: Melody Schroer, J.D., ext. 5494
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Dean: Darrell Robin, Ed.D., ext. 5227
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Legal Studies
The Legal Studies offerings at SWIC unite the distinct yet complementary pathways of Paralegal Studies and Legal Administrative Assistant training. Designed to prepare highly skilled professional for critical roles in the legal field, our curriculum goes beyond conventional education to provide practical, hands-on experience.

Paralegal Studies
Paralegals (or Legal Assistants) provide support to lawyers by assisting with research and preparing court documents. They often meet with clients and serve as the point of contact between the lawyer and client. They can investigate facts, conduct legal research, and help attorneys prepare cases for trial. They can also draft documents such as contracts and wills, under the supervision of the attorney.

The mission of the Paralegal Program is to prepare students for gainful employment in law firms or law related fields by utilizing a technology-based curriculum that emphasizes writing and research skills, as well as critical thinking skills. We also emphasize practical applications which the students can expect to encounter in the workplace, recognizing the need to remain current in technology utilized in the legal field. By assessing student performance, the program ensures that paralegal graduates will possess the skills required by the legal community to meet its employment needs. In addition, the program fosters a commitment to lifelong learning as a critical component to career success.

Courses in the Paralegal Studies program are taught by licensed attorneys and practicing paralegals. Students can take courses in person or online. For those who wish to continue their education beyond the Associate Degree, we offer articulation agreements with the following schools.

Articulation Agreements

- SIU Carbondale – BS Paralegal Studies
- Webster University – BA Legal Studies
- University of Illinois Springfield - BA Legal Studies

See the program coordinator or an academic advisor for more information.

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0088)

First Year

Fall Semester			**Semester Credits**
OAT	180	Word Processing	3
ENG	101	Rhetoric & Composition I	3
PARL	120	Introduction to Law	3
BUS	215	Business Law	3
COMM	151	Fundamentals of Public Speaking **OR**	3
COMM	155	Interpersonal Communication	
Total Semester Credits			**15**

Spring Semester			**Semester Credits**
BUS	102	Business Mathematics **OR**	
		Math over 100 level	3
PARL	230	Civil Procedure	3
PARL	274	Law Office Computer Applications	3
PARL	220	Legal Research and Writing I	3
OAT	156	Microsoft Office Suite I	3
Paralegal Elective			3
Total Semester Credits			**18**

Second Year

Fall Semester			**Semester Credits**
POLS	150	Introduction to American Government	3
BUS	261	Business Communications **OR**	3
ENG	102	Rhetoric and Composition II	
Human Well-Being Elective			2
PARL	225	Legal Research and Writing II	3
PARL	240	Torts	3
Paralegal Elective			3
Total Semester Credits			**17**

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Spring Semester			**Semester Credits**
ECON	115	Introduction to Economics **OR**	
ECON	201	Principles of Macroeconomics **OR**	
ECON	202	Principles of Microeconomics	3
PARL	255	Law Office Management	3
PARL	250	Litigation Support for Paralegals	3
PARL	290	Paralegal Field Project	3
PARL	235	E-discovery/E-Investigation	2
Total Semester Credits			**14**

Total Program Credits **64**

Paralegal Electives

PARL	200	Dispute Resolution Skills	3
PARL	260	Family Law	3
PARL	265	Wills, Probate & Estate Planning	3
PARL	270	Criminal Law	3
PARL	275	Bankruptcy/Creditors' Rights	3
PARL	280	Copyright/Trademark/Patent Law	3
PARL	285	Employment Law	3

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Accelerated Degree Option

Anyone who has completed an associate or bachelor's degree from a regionally accredited college may earn an Associate in Applied Science degree in Paralegal Studies by completing at least 30 semester credits of program-related coursework. A plan of specific courses required for the degree will be dependent on the previous degree obtained by the accelerated degree candidate. It will be necessary to meet with the program coordinator to determine the exact courses required for degree completion. This plan must be approved by the dean and the chief academic officer.

Career Opportunities

Paralegals work in all areas of law, including civil litigation, corporate law, real estate, family law, environmental litigation, and criminal matters. Many work in law firms, but there are also positions in government, coporate legal departments, insurance agencies, non-profit organizations, and human resources.

Students who plan to apply to law school must complete a Bachelor's Degree and are encourage to consider a discipline that requires critical thinking, verbal and written communication skills, and knowledge of technology. Admission to law school requires that an applicant take the Law School Admission Test (LSAT).

Certificate Program

Legal Administrative Assistant (088A)

The Legal Administrative Assistant program is designed to prepare students for entry-level positions in the legal support field. The program blends traditional office administration skills with computer technology and applications specific to the law office. Additionally, the program is designed to enable those who wish to transtion into the paralegal program to do so seamlessly upon completion of their certificate.

Fall Semester			**Semester Credits**
OAT	180	Word Processing	3
ENG	101	Rhetoric & Composition I	3
PARL	120	Introduction to Law	3
BUS	102	Business Mathematics	3
OAT	171	Document Processing/Input Technology	3
Total Semester Credits			**15**

Spring Semester			**Semester Credits**
BUS	261	Business Communications	3
OAT	156	Microsoft Office Suite I	3
OAT	280	Virtual Office Technology	3
PARL	274	Law Office Computer Applications	3
PARL	255	Law Office Management	3
Total Semester Credits			**15**

Total Credits **30**
Total Program Credits **30**

Career Opportunities

A graduate of the Legal Administrative Assistant program is prepared to work as a:

- Legal Secretary
- Administrative Assistant
- Office Assistant

Management

swic.edu/management

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The Management Associate in Applied Science degree program focuses on developing the knowledge and skills needed to perform the four basic functions of management: planning, organizing, leading and controlling. The knowledge and skills gained thorough this program are applicable in a wide range of industries in which graduates may pursue entry-level management positions.

The Management AAS curriculum includes accounting, marketing and management coursework. Ethics and communications skills are emphasized as well.

The courses required for the degree program are listed below. This is a sample schedule. Course availability will vary from semester to semester. Contact an academic advisor or the program coordinator for more information including the master course schedule.

Articulation Agreements

- SIUC – BS Management

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (049B)

First Year

Fall Semester			**Semester Credits**
ACCT	110	Financial Accounting	4
BUS	101	Introduction to Business	3
BUS	102	Business Mathematics	3
ENG	101	Rhetoric & Composition I	3
MGMT	214	Principles of Management	3
Total Semester Credits			**16**

Spring Semester			**Semester Credits**
ACCT	106	Introduction to QuickBooks	3
ACCT	111	Managerial Accounting	4
General Management **OR**			
Logistics & Supply Chain Management Specialization Course			3
MKT	126	Introduction to Marketing	3
COMM	151	Fundamentals of Public Speaking	3
Total Semester Credits			**16**

Summer Semester	**Semester Credits**
General Management **OR**	
Logistics & Supply Chain Management Specialization Course	3

Second Year

Fall Semester			**Semester Credits**
General Management **OR**			
Logistics & Supply Chain Management Specialization Course			3
BUS	261	Business Communications	3
PSYC	151	General Psychology	3
Human Relations Elective			3
Human Well Being Elective			2
Total Semester Credits			**14**

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Spring Semester			**Semester Credits**
BUS	209	Business Computer Systems	3
BUS	215	Business Law	3
BUS	240	Ethics in the Workplace	3
2 courses from General Management **OR**			
2 courses from Logistics & Supply Chain Management Specialization Courses			6
MKT	226	eMarketing	3
Total Semester Credits			**18**

Total Program Credits **67**

Management Specializations Courses

General Management Courses

BUS	241	Fundamentals of Finance	3
MGMT	219	Small Business Management	3
MGMT	213	Human Relations in the Workplace	3
MGMT	217	Human Resource Management	3
MGMT	270	Business Planning	3

Logistics & Supply Chain Management Courses

MGMT	280	Introduction to Logistics	3
MGMT	281	Logistics Models & Systems Analysis	3
MGMT	282	Supply Chain Management	3
MGMT	283	Global Supply Chain Management	3
MGMT	284	Import/Export Logistics Management	3

Accelerated Degree Option

Anyone who has completed an associate or bachelor's degree from a regionally accredited college may earn an Associate in Applied Science degree in Management by completing at least 27 semester credits of program-related coursework. A plan of specific courses required for the degree must be obtained from the program coordinator and approved by the dean and the chief academic officer. Only those courses completed at SWIC, and not included as part of the requirements for a previously earned degree or certificate, can be considered for this option. Students must meet all institutional requirements for the Associate in Applied Science degree.

Certificate Programs

Management (049C)

The Management certificate allows students outside of the business area to gain recognition for completing a core course of study in management. The certificate will benefit students in two-year, nonbusiness programs as well as four-year students who wish to obtain a background in management.

BUS	102	Business Mathematics	3
BUS	209	Business Computer Systems	3
MGMT	213	Human Relations in the Workplace	3
MGMT	214	Principles of Management	3
MGMT	217	Human Resource Management	3
MGMT	219	Small Business Management	3
BUS	240	Ethics in the Workplace	3
MKT	126	Introduction to Marketing	3
Total Credits			**24**

Course availability varies from semester to semester. Ask an academic advisor or the Business Division for a master course schedule.

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Career Opportunities

A successful graduate of the Management AAS program is prepared to work in administrative and entry-level supervisory positions in a small business. Graduates with an interest in starting a business have the knowledge to prepare a detailed business plan. For more job market information, go to the Bureau of Labor Statistics website at www.bls.gov/.

Logistics and Supply Chain Management (049G)

The Logistics and Supply Chain Management certificate is designed to provide the student with a holistic education covering Logistics, Supply Chain Management and Warehousing. Logisticians analyze and coordinate an organization's supply chain system that moves a product from supplier to consumer. They manage the entire life cycle to include how a product is acquired, distributed, allocated, and delivered.

BUS	240	Ethics in the Workplace	3
MGMT	280	Introduction to Logistics	3
MGMT	281	Logistics Models & Systems Analysis	3
MGMT	282	Supply Chain Management	3
MGMT	283	Global Supply Chain Management	3
MGMT	284	Import/Export Logistics Management	3
Total Credits			**18**

Course availability varies from semester to semester. Contact the Program Coordinator for more information.

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Career Opportunities

A successful graduate with the Logistics and Supply Chain Management certificate will have the skills to oversee activities that include purchasing, transportation, inventory, and warehousing. They will use software systems for planning and tracking the movement of goods. Software programs are designed for procurement, inventory management, and other supply chain planning.

Marketing & Graphic Communications

swic.edu/graphic-communications

For more computer classes, see:
Computer Information Systems
Cybersecurity and Networking

Coordinator/Faculty: Nikki Hensley, ext. 5382
Email: Nicolyn.Hensley@swic.edu
Dean: Darrell Robin, Ed.D., ext. 5227
Email: Darrell.Robin@swic.edu

The Marketing and Graphic Communications Associate in Applied Science is designed to train students with a skill set that blends creative visual design with strategic marketing principles. This interdisciplinary approach prepares graduates for various roles in today's visually-driven business world. Students develop a strong foundation in visual communication, learning design principles, typography, color theory, image manipulation, and layout techniques. They gain proficiency in industry-standard software like Adobe Photoshop, Illustrator, and InDesign. Students cover essential marketing concepts, including market research, consumer behavior, branding, advertising, digital marketing, search engine optimization, social media marketing, and content creation. The program emphasizes the connection between design and marketing, teaching students how to create effective visual materials that support marketing strategies and achieve business objectives.

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0140)

First Year Fall Semester			Semester Credits
CIS	147	Fonts & Types	3
CIS	168	Graphic Design **OR**	3
ART	111	Basic Design	
CIS	185	Introduction to Information Technology	3
MKT	126	Introduction to Marketing	3
ENG	101	Rhetoric & Composition I	3
Total Semester Credits			**15**

First Year Spring Semester			Semester Credits
CIS	171	Computer Graphics	3
CIS	172	Photo Manipulation	3
BUS	101	Introduction to Business	3
MKT	226	eMarketing	3
Communications Elective			3
Total Semester Credits			**15**

Second Year Fall Semester			Semester Credits
CIS	230	Video Graphics	3
CIS	259	Current Web/Graphic Technology	3
CIS	273	Advanced Graphics & Animation	3
MKT	228	Social Media Tools	3
Human Relations Elective			3
Human Well-Being Elective			2
Total Semester Credits			**17**

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Second Year Spring Semester			Semester Credits
CIS	173	Animation	3
CIS	257	Electronic Publishing	3
CIS	297	CIS Internship **OR**	
BUS	261	Business Communications	3
MKT	227	SEO & Web Analytics for Marketing	3
Humanities **OR** Social Science Elective			3
Total Semester Credits			**15**
Total Program Credits			**62**

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Accelerated Degree Option

Anyone who has completed an associate or bachelor's degree from a regionally accredited college may earn a Graphic Communications Associate in Applied Science degree by completing at least 27 semester credits of program-related coursework.

A plan of specific courses required for the degree must be obtained from the program coordinator and approved by the dean and the chief academic officer. Only those courses completed at SWIC, and not included as part of the requirements for a previously earned degree or certificate, can be considered for this option. Students must meet all institutional requirements for the Associate in Applied Science degree

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Certificate Programs

Digital Marketing (031F)

Students completing the Digital Marketing Certificate will learn online marketing skills. Students will learn the latest digital marketing trends, search engine optimization and social media skills.

CIS	259	Current Web/Graphic Technology	3
MKT	126	Introduction to Marketing	3
MKT	226	eMarketing	3
MKT	227	SEO & Web Analytics for Marketing	3
MKT	228	Social Media Tools	3
Total Credits			**15**

Graphics Design (074A)

Students will learn the essentials of graphics design and publishing. Students will learn how to design all types of graphics and prepare them for print or web applications. Key graphics publishing software will be used to design and create a variety of publications.

CIS	147	Fonts & Type	3
CIS	168	Graphic Design **OR**	3
ART	111	Basic Design	
CIS	171	Computer Graphics	3
CIS	172	Photo Manipulation	3
CIS	185	Introduction to Information Technology	3
CIS	257	Electronic Publishing	3
MKT	126	Introduction to Marketing	3
Total Credits			**21**

Career Opportunities

Graphic Communications graduates may find positions as:

- Graphic designer/artist
- Advertising designer/artist
- Art design worker
- Multi-media artist
- Media designer/artist
- Illustrator
- Animator
- Art director
- Creative director
- Production designer/artist
- Web designer
- Social media coordinator
- Search engine optimization specialist
- Marketing Coordinator
- Digital Marketing Assistant

Massage Therapy

swic.edu/massage-therapy

Coordinator: Tamara Bivin, BCTMB, LMT
Email: Tamara.Bivin@swic.edu
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu

Program Location:
The Body Therapy Center & School of Massage
4 Executive Woods Court
Swansea, IL 62226
618-239-6400
Owner & Director: Holly I. Pinto, BS, LMT, RCST

Career Overview

The Massage Therapy program is designed to provide students with a strong, comprehensive foundation for practice as a massage therapist. MTs are involved in hands-on care intended to promote healing, relieve stress, manage pain and improve circulation. They work by appointment and when self-employed supply the tables, chairs, sheets, pillows, body lotions/oils, etc. needed for treatment. The massage therapist interviews and assesses each client to determine a treatment plan, which may include specialized massage techniques and complimentary techniques, such as spa treatments. Massage therapists establish clear boundaries with their clients to create a safe and effective healing environment. To develop and maintain a successful massage therapy practice, they also must have good communication skills, effective business practices, and an appreciation of the body, mind and spirit connection. For further information regarding the field of Massage Therapy, refer to the American Massage Therapy Association website at www.amtamassage.org, or the U.S. Department of Labor Outlook handbook at www.bls.gov/ooh/.

Contact the program coordinator or an academic advisor for more information about enrolling into this program.

About the Program

- Two-semester certificate program or two-year Associate in Applied Science degree
- Fall and spring semester starts
- Students must be eligible for ENG 101
- MT courses are offered at The Body Therapy Center and School of Massage in Swansea

Certification/Licensure Requirements

Upon successful completion of the Massage Therapy curriculum, graduates are awarded a Massage Therapy Certificate and are eligible to take the Massage & Bodywork Licensing Exam (MBLEX) through the Federation of States Massage Therapy Boards, in order to apply for licensure. The states of Illinois and Missouri require successful completion of the MBLEX state test in order to apply for licensure. In addition, students are required to submit to a criminal background check and provide verification of fingerprint processing by an approved agency. The laws regarding massage therapy practice vary from state to state; refer to the AMTA website for more information, www.amtamassage.org/about/lawstate.html.

Program Overview

The Massage Therapy Certificate program is a 27-semester-credit program, which can be completed in two semesters. Courses include MT technical courses and clinical experiences/practicums. The curriculum includes: anatomy, physiology and pathology, massage techniques, including Western and non-Western philosophies, kinesiology basics, client assessment, specific therapeutic massage applications and hydrotherapy. The curriculum also includes the professional standards, ethics, business and legal practices related to massage therapy. The MT certificate program begins each fall and spring semester at The Body Therapy Center and School of Massage in Swansea, Illinois. Clinical practicum courses provide students provide massage to real clients and are completed at The Body Therapy Center and School of Massage and off-site locations for special events. Students may periodically be required to travel outside of the college district for clinical practicum. Practicum hours may be completed during the day, evening and/ or weekend.

Degree Option

The college also offers an Associate in Applied Science degree in Massage Therapy. The AAS in MT degree is a 60-semester- credit program. It includes general education courses to enhance skills in communication, social and behavioral sciences, information systems, and specialized areas of massage therapy practice.

Enrollment Procedures

The Massage Therapy program is open to any student who is a high school graduate or earned a high school diploma certificate and eligible for ENG 101. To enroll, students must complete each of the following:

A. **Attend the new student orientation**. Orientation sessions are held at The Body Therapy Center, 4 Executive Woods, Swansea. At orientation, students will complete a SWIC registration form to enroll in classes. **Students may not register without the MT program coordinator's permission**.

General Information:

A. Coordinator permission is required before enrolling in the first semester of the MT program. Contact Tamara Bivin at 618-239-6400 or tamara.bivin@swic.edu.
B. Students qualifying for enrollment must attend all required orientation sessions, meet program-specific medical requirements and must be able to perform the essential functions of the job with or without reasonable accommodations. The essential functions of the job are listed in the MT Student Handbook and at swic.edu/massage-therapy in the Job Description link. Any interested students are encouraged to meet with the Student Accessibility & Support Services to discuss potential issues associated with meeting these requirements at 618-235-2700, ext. 5368.
C. Students should check the location and schedule of classes to ensure their own availability and access to classes. Students are responsible for their own transportation and attendance at any of the classes and practicums assigned by the program.
D. The MT courses are offered at The Body Therapy Center and School of Massage, 4 Executive Woods Court, Swansea, IL 62226. Periodically some MT courses may be moved to the Belleville Campus as needed. General education courses can be taken at the Belleville, Red Bud or Sam Wolf Granite City campuses.
E. Students that enroll in this the program must follow requirements for graduation at the time they are admitted and must meet all course, program, degree and sequencing requirements as specified. Students are responsible for program policies as listed in each year's MT Student Handbook. Students who fail to meet program specific requirements will be dropped from the program and may be required to enroll again the following semester/year. **All courses for the massage therapy certificate must be completed within a two-year period**.
F. Students will be required to complete a physical examination before beginning any clinical practicum.
G. The MT program begins each summer and spring semester. Classes are held in the evening for summer semester starts and in the morning for spring semester program starts. Twenty seats are available each summer and spring. All courses must be completed during the semesters indicated, unless permission is given by the program coordinator. A grade of C or better is required for all courses in the certificate.
H. All massage tables, chairs, pillows and supplies are provided by the school. Students are required to purchase their own sheets and pillow case(s). Attire for clinical practicum is black pants and solid color tops.

Associate in Applied Science Degree (027B)* and Certificate (027A)

Massage Therapy Certificate (027A) can be completed in two semesters (Spring & Summer OR Fall & Spring). See Program Coordinator, or advising for schedule with spring start.

First Year

Spring Semester			**Semester Credits**
MT	101	Therapeutic Massage I	5
MT	102	Body Structure and Function I	4
MT	190	Clinical Practicum	3
MT	200	Business Practices in MT	1
MT	203	Complimentary Techniques	3
MT	220	Pathology for Massage Therapist	2
Total Semester Credits			**18**

Summer Semester			**Semester Credits**
MT	201	Therapeutic Massage II	5
MT	202	Body Structure and Function II	4
Total Semester Credits			**9**

Certificate Total hours **27**

The following courses are required to complete the AAS in Massage Therapy (027B) degree

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Spring Semester			**Semester Credits**
ENG	101	Rhetoric & Composition I	3
PSYC	151	General Psychology	3
HRO	100	Medical Terminology OR	1
OAT	128	Microsoft Outlook	
HES	152	First Aid-Medical Self-Help	2
MKT	226	eMarketing	3
Total Semester Credits			**12**

Second Year

Fall Semester			**Semester Credits**
COMM	155	Interpersonal Communication	3
ART	101	Art Appreciation **OR**	3
MUS	101	Music Appreciation	
MGMT	117	Personal Finance	3
PSYC	210	Life-Span Development	3
Total Semester Credits			**12**

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Spring Semester			**Semester Credits**
PSYC	254	Death & Dying	3
MGMT	219	Small Business Management	3
Human Relations Elective			3
Total Semester Credits			**9**

Total Program Credits **60**

The college also offers an accelerated Massage Therapy Certificate opportunity for graduates of accredited physical therapist/physical therapist assistant programs. Interested students should contact the program coordinator for further information.

Career Opportunities

A large percentage of massage therapists are self-employed, although other employment settings include chiropractic offices, health clubs/fitness centers, spas/salons, resorts, massage therapy clinics, sports medicine centers, hospitals, corporations and stress reduction centers. Approximately 60 percent of massage therapists work part time due to the physical demands of the occupation.

Average Starting Salary

Based on local markets, a new graduate working as an independent contractor can earn $30-$75 per hour. Working for an hourly wage, such as at a clinic or spa, the earnings are generally $18-$35 per hour. A self-employed massage therapist with increased skill and a larger client base will have the highest earnings.

Medical Assistant

swic.edu/medical-assistant

Coordinator/Faculty: Chelsea Bergmann, ext. 5332
Email: Chelsea.Bergmann@swic.edu
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu
Administrative Assistant: Candice Rodgers, ext. 5355

Articulation Agreements

- Maryville University – BS Healthcare Practice Management

Career Overview

The SWIC Medical Assistant program prepares graduates to provide both administrative and clinical services in a medical office. Medical assistants have a moderate level of patient contact. The specific duties of a medical assistant will vary depending on the legal requirements of the state and on the training, skill level and capabilities of the medical assistant. Administrative duties may include: managing the flow of patients in and out of the office, updating and filing medical records, filling out insurance information, arranging for hospital admission or laboratory services, and billing. Under the direct supervision of a licensed professional such as a physician, they also provide direct, hands-on patient care procedures. These procedures may include: monitoring vital signs, explaining treatment procedures, preparing patients for examinations, sterilizing instruments and/or performing routine laboratory procedures and electrocardiograms. For further information regarding the field of a medical assistant, refer to the American Association of Medical Assistants website at www.aama-ntl.org.

About the Program

- Options: one-year certificate or two-year Associate in Applied Science degree
- Admission in fall and spring semester

Certification Requirements

Upon successful completion of the one-year MA curriculum, graduates are awarded a Medical Assistant Certificate and are eligible to take the National Certification exam to become a certified medical assistant.

Program Accreditation

The SWIC Medical Assistant Certificate program is accredited by the Commission on Accreditation of Allied Health Education Programs, website: www.caahep.org upon recommendation of the Medical Assisting Education Review Board. The program's curriculum is guided by the standards developed by the commission. Our accreditation status means SWIC has met the standards required of the profession and helps to assure the public that our curriculum will graduate competent clinicians. It also qualifies the college's MA graduates to sit for the MA certification examination.

Degree Option

The college also offers an Associate in Applied Science degree for medical assistants to enhance their skills in finance, management, communication and interpersonal relations. Completion of the degree often assists the MA in attaining a supervisory role in the medical office.

Program Location

The Medical Assistant Certificate program consists of courses beginning with the prefix MA only, while the degree program consists of general education courses and MA-prefix courses. Both programs include clinical/practicum experience. Specific locations depend on the course type.

1. The general education courses can be taken at the Belleville, Red Bud or Sam Wolf Granite City campuses.
2. The MA courses are only offered at the Belleville Campus, East St. Louis Campus and Sam Wolf Granite City campus during the day after acceptance into the program.
3. Clinical/Practicum experience is completed at clinical facilities throughout the district and in the St. Louis region. Students may be required to travel outside the college district for clinical experience courses. Specific clinical placement cannot be guaranteed.

Students should check location and schedule of classes to ensure availability and access. Students are responsible for their own transportation and attendance at any of the classes and clinicals assigned by the program.

Time Commitment

Students who enroll full-time will attend school four to five days per week through the one-year program. If planning to attend part time, students must meet with the program coordinator to develop a schedule for program completion. Although students may take up to three years to complete the program, it is STRONGLY discouraged as many students have difficulty retaining knowledge/skills of materials taught in earlier semesters.

Whether students attend full time or part time, all students must be available 30-40 hours per week during normal office hours to complete the clinical/ practicum portion of the program which is a total of 200 hours of practical experience. Clinical practice/ practicum begins after completion of all coursework. MAERB and CAAHEP have strict non-remuneration policy for practicum sites and students. Practicum sites cannot pay students for their time nor can students be provided with a travel allowance or a meal allowance or any other perk that involves the exchange of funds. All clinical experience must be completed to sit for the national certificate examination.

Orientation & Performance

Enrolled students must attend all required orientation sessions and be able to perform the essential functions of the job with or without reasonable accommodations. The essential functions can be found at swic.edu/medical-assistant-performance-essentials. Enrolled students are encouraged to contact the Student Accessibility & Support Services to discuss potential issues associated with meeting these requirements at 618-235-2700, ext. 5386.

Health Insurance

Health insurance is recommended during clinical education courses. Students are personally responsible for any costs incurred for injuries occurring during their clinical experience.

Medical/Health Requirements

MA students will be required to possess current CPR certification at the Health Care Provider level and show proof of immunizations, tuberculosis test and physical examination before beginning any clinical practicum. These requirements do not have to be fulfilled until further explained at the program orientation meeting.

Background Checks and Drug Testing

Criminal background check, random drug test and name search on government registries which prohibit employment in health care professions are required in SWIC Health Sciences programs. Program start is contingent upon meeting deadlines for completion of the screening and results which allow the student to participate in the clinical portion of the program. Details and directions for accessing and purchasing online screening for background checks are shared with accepted students. Background checks are conducted for every state in which the student has worked or resided since the age of 18 years. Conviction of offenses in the following areas normally prohibit the student from participation in the clinical portion of the program and will result in program dismissal: assault, sexual offenses, murder, burglary, arson, and robbery. Refer to the Health Care Worker Background Check Act for a complete list of offenses at www.idph.state.il.us/nar/.

To participate in the clinical portion of the program, students with "disqualifying" offense(s) will be asked to produce a waiver from the Illinois Department of Public Health for identified offenses. To request a waiver application from IDPH, students may call 217-785-5133. Not all clinical sites accept the IDPH waiver (ie. Missouri sites), therefore required clinical sites are also surveyed to determine if clinical placement can be accomplished. If a waiver cannot be produced prior to clinicals/program start or survey results indicate clinical sites prohibit the conviction, the student will be removed from the program.

In addition, positive results from the drug test or student listing on prohibitory government registry will also result in dismissal from the program. Note: Positive drug testing results from the use of illegal drugs or prescription medication which the student does not have a prescription. Medical marijuana, which is not FDA approved, is also considered a positive drug testing result.

Dismissal for positive criminal background check, drug test, or listing on a government registry does not qualify students for refund of tuition or lab fees. Students who have concerns regarding their status with the above regulations are encouraged to discuss the matter with the program coordinator or the coordinator's assistant prior to seeking admission.

Graduation Requirements

Students must follow the requirements for graduation and meet all course, degree and sequencing requirements specified. Students are responsible for program policies as listed in each year's MA Student Handbook. Students who fail to meet program specific requirements will be dropped from the program and may be required to re-apply and compete for admission in the succeeding semester.

A grade of C or better is required for all courses in the degree.

All students completing an AAS degree must complete graduation degree requirements in the front section of the blue pages of this catalog as well as the requirements specified for Human Relations coursework. Health requirements are satisfied by students successfully completing BIOL 105, PSYC 151 and this health science curriculum.

Important Information

The following semester sequence is designed as a guide for students enrolled full time. Students planning to attend part time must meet with the program coordinator to develop a schedule. Course requisites will affect course sequencing. Please refer to the *Course Description Guide* (yellow section) of this catalog for course requisites.

Associate in Applied Science Degree (0021) and Certificate (021A)

First Year
Medical Assistant Certificate (021A) is the fall/spring/summer course listing of the first year.

Fall Semester			**Semester Credits**
MA	130	Medical Office Clinical Procedures I	2
MA	135	Health Care & Patient Communications	2
MA	140	Medical Office Procedures	3
MA	145	Medical Law & Ethics	2
MA	150	Medical Pathology I	3
MA	170	Medical Lab Orientation I	2
MA	181	Cardiopulmonary Procedures	2
Total Semester Credits			**16**

Spring Semester			**Semester Credits**
MA	141	Medical Insurance & Coding	2
MA	143	MA Automation	2.5
MA	151	Medical Pathology II	4
MA	171	Medical Lab Orientation II	2
MA	180	Medical Office Clinical Procedures II	2
MA	182	Pharmacology and Administration Techniques	4
Total Semester Credits			**16.5**

Summer Semester			**Semester Credits**
MA	195	Office Practicum	5
MA	199	Capstone Review	1
Total Semester Credits			**6**
Total Certificate Credits			**38.5**

Second Year
Required for AAS (0021) degree completion:

Fall Semester			**Semester Credits**
ACCT	105	Basic Accounting Procedures **OR**	
ACCT	110	Financial Accounting	3
MGMT	214	Principles of Management	3
ENG	101	Rhetoric & Composition I	3
PSYC	151	General Psychology	3
BIOL	105	Human Biology	4
Total Semester Credits			**16**

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Spring Semester			Semester Credits
MGMT	213	Human Relations in the Workplace	3
MA	255	Medical Assistant Management Internship	2
COMM	151	Fundamentals of Public Speaking **OR**	3
COMM	155	Interpersonal Communication	
MA	110	Phlebotomy Skills	1
Human Relations Elective*			3
Approved Electives***			2
Total Semester Credits			**14**
Total Program Credits			**68.5**

* See front of AAS blue pages for possible Human Relations courses

***Approved Electives**

ECON	201	Principles of Macroeconomics
BUS	215	Business Law I
MLT	242	Phlebotomy Clinical
MGMT	219	Small Business Management
OAT	128	Microsoft Outlook
HRO	101	Health Science Careers
HRO	120	Pharmacology
HRO	150	Fundamentals of Nutrition
PSYC	200	Applied Psychology
SLS	100	Non-Verbal Communication
SLS	125	Fingerspelling & Numbers
SPAN	101	Elementary Spanish I

Career Opportunities

Medical assistants work in a wide range of medical facilities. Traditionally, they work in ambulatory care centers, urgent care facilities and physician's offices, medical assistants are now also finding employment in hospitals and inpatient/ outpatient facilities. The cross-training of the medical assistant in administrative and clinical duties frequently makes the MA more marketable than individuals specializing in office management only. The Bureau of Labor Statistics projects medical assisting to be one of the fastest growing occupations for the 2014-2024 period.

Average Starting Salary

Based on graduate feedback, starting salaries are about $37,440 annually. Salaries vary depending on the facility, and the training and skills of the MA. **Certified medical assistants make approximately 5-10 percent more than noncertified MAs**.

Medical Laboratory Technology

swic.edu/medical-lab

Coordinator/Faculty: Dianne Iberg, ext. 5386
Email: Dianne.Iberg@swic.edu
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu
Administrative Assistant: Candice Rodgers, ext. 5355

Career Overview

The SWIC Medical Laboratory Technology program prepares students with the skills required for an entry-level position in a clinical laboratory. Medical laboratory technicians perform hands on science on patient samples to provide valuable diagnostic information to the physician. Patient contact is limited except for specimen collection. Tasks include manual cell counts and microscopic examination, growing and identifying microorganisms and operating advanced analytical instrumentation. MLT students are qualified to work in clinical hospital laboratories, industrial laboratories and forensic laboratories. Advancement is available within the clinical laboratory field with advanced degrees, or as service and sales for nationwide organizations. The MLT offers a good foundation for further education in nursing, physician's assistant or a number of other medical fields. Enjoy a flexible hours and tuition reimbursement for further education from a large number of employers.

For more information on the field visit https://ascls.org or https://www.ascp.org

About the Program

- Two-year Associate in Applied Science degree
- Completion of biology and algebra in high school or college is required prior to application
- Applications accepted September 1 to August 1 for selective admission in the fall and spring at the Belleville campus.
- Online application available in eSTORM Student Center
- Both traditional face-to-face and flexible hybrid lecture teaching formats are available in many classes. (Lab components and clinical experiences are not available online or as hybrid)
- To discuss the application requirements, email the Program Coordinator Dianne Iberg at dianne.iberg@swic.edu

Certification Requirements

Upon successful completion of the program, graduates are awarded an Associate of Applied Science (AAS) degree in medical laboratory technology. Students should prepare to sit for the American Society for Clinical Pathology (ASCP) board of certification American Medical Technologyists exam within one year of completing the program. The AAS in MLT is not dependent on passing the BOC. However, employers nationwide generally require that employees complete a national certification exam prior to or within a short time of hire. Pass rates for the certification are consistently above the 80 percent mark with many years seeing a 100 percent pass rate.

Program Accreditation

The SWIC Medical Laboratory Technology program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences, NAACLS. Accreditation status indicates that the program's curriculum is guided by the standards developed by NAACLS to ensure competence of clinical scientists. It qualifies SWIC graduates to sit for the certification examination offered by the American Society of Clinical Pathologists and recognized nationwide.

For further information contact NAACLS:
5600 N. River Road Suite 720, Rosemont, IL 60018
Phone: 773-714-8800
Website: www.NAACLS.org
Email: info@NAACLS.org

Admission Procedures/ Application Requirements

The admission procedures for the MLT program are in accordance with Illinois law. The law requires that programs not having sufficient space and resources to accommodate all applicants will accept those applicants best qualified, using rank, ability and achievement test scores as guides, with preference given to students residing in the district. Out-of-district students will be considered as in-district status for this application process if their community college has an Interdistrict Cooperative/Career agreement with SWIC. To qualify for the application process, students must submit paperwork from their local community college to SWIC Enrollment Services by the application deadline. Contact the secretary of the Board of Trustees at your community college to get the required paperwork. Students must apply and be formally accepted into the Medical Laboratory Technology program before enrolling in MLT-prefixed courses. There are no waiting lists for admission to any Health Sciences program. If not admitted, interested applicants must re-apply the following year. **Refer to the MLT Application Planning Guide for specific application requirements and to enhance your potential for admission to this program. Application Planning Guides are located on the Medical Laboratory Technology webpage. All applicants are strongly encouraged to make an appointment with MLT coordinator at 618-235-2700, ext. 5386.**

Selection of Applicants for Admission

Selection of qualified applicants for the Medical Laboratory Technology program will be based upon a numerical ranking procedure, using ACT/SAT scores, high school and/or college grades and the percentage of those general education courses required for graduation completed prior to admission with a grade of B or better. To obtain more information on the entrance requirements for the Medical Laboratory Technology program, call or visit an academic advisor, Belleville Campus, 2500 Carlyle Ave., 618-235-2700, ext. 5206; Red Bud Campus, 500 W. South Fourth St., 618-282-6682, ext. 8114; or the Sam Wolf Granite City Campus, 4950 Maryville Road, 618-931-0600, ext. 7333.

Applicants will be notified of their status regarding admission as quickly as is possible given the number of applications received. **In the event that there are fewer qualified candidates than there are spaces available, applications will continue to be accepted until the program's maximum capacity has been reached or until the first week of MLT classes during the spring semester**. Contact Enrollment Services at 618-235-2700,

ext. 5455, to obtain information of a possible application deadline extension. The college reserves the right to fill the program in those years when there are fewer applicants than spaces available by whatever means it deems necessary to assure both academic integrity and fairness in the selection process.

In the event that there are more qualified applicants than spaces available in this program, those applicants residing outside District No. 522 or in a district that does not have a joint agreement with SWIC for this program, will not be eligible for consideration or admission if there are more applicants than positions to be filled. Resident status is determined by address on file with Enrollment Services by May 1.

Program Capacity

The Medical Laboratory Technology program class size is based in part on the number of available clinical locations. The MLT program accepts a minimum of 14 students for each graduating class.

Program Location

The Medical Laboratory Technology program consists of general education courses, MLT-prefix courses and assigned clinical practice courses. Specific locations depend on the course type.

1. The general education courses can be taken at the Belleville, Red Bud or Sam Wolf Granite City campuses and can be completed prior to admission, but **this is generally not indicated.** Discuss with an academic advisor or the MLT program coordinator.
2. The MLT courses are only offered at the Belleville Campus during the day of the semesters indicated on the degree outline, after acceptance into the program. All 200 level courses feature hyflex lectures, students may choose to attend traditional face-to-face sessions, attend sessions virtually using Microsoft TEAMS or complete lecture material asynchronously as online learning. All laboratory and clinical hours are mandatory in person.
3. Clinical practice courses are completed at hospitals/clinical facilities throughout southern Illinois and in the St. Louis region. Students may be required to travel outside the college district for clinical experience courses.

   Applicants should check location and schedule of classes to ensure availability and access. Students are responsible for their own transportation and attendance at any of the classes and clinicals assigned by the program.

Orientation & Performance

Applicants accepted into this program must attend all required orientation sessions and be able to perform the essential functions of the job with or without reasonable accommodations. The essential functions can be found at swic.edu/mlt-performance-essentials. Applicants or enrolled students are encouraged to contact the Student Accessibility & Support Services at 618-235-2700, ext. 5368, to discuss potential issues associated with meeting these requirements.

Medical/Health Requirements

All MLT students will be required to provide proof of medical exam (AAS only), applicable testing, immunizations and vaccinations. Students must provide proof of health insurance coverage or sign a waiver indicating ability to pay for medical expenses incurred during classroom or clinical experiences. These requirements do not have to be fulfilled prior to admission and are further explained upon acceptance to the program.

Background Checks and Drug Testing

Criminal background check, random drug test and name search on government registries which prohibit employment in health care professions are required in SWIC Health Sciences programs. Program start is contingent upon meeting deadlines for completion of the screening and results which allow the student to participate in the clinical portion of the program.
Details and directions for accessing and purchasing online screening for background checks are shared with accepted students. Background checks are conducted for every state in which the student has worked or resided since the age of 18 years. Conviction of offenses in the following areas normally prohibit the student from participation in the clinical portion of the program and will result in program dismissal: assault, sexual offenses, murder, burglary, arson, and robbery. Refer to the Health Care Worker Background Check Act for a complete list of offenses at www.idph.state.il.us/nar/.

To participate in the clinical portion of the program, required clinical sites will be surveyed to determine if clinical placement can be accomplished for students with "disqualifying" offense(s). If the survey results indicate clinical sites prohibit the conviction, the student will be removed from the program.

In addition, positive results from the drug test or student listing on prohibitory government registry will also result in dismissal from the program. Note: Positive drug testing results from the use of illegal drugs or prescription medication which the student does not have a prescription. Medical marijuana, which is not FDA approved, is also considered a positive drug testing result.

Dismissal for positive criminal background check, drug test, or listing on a government registry does not qualify students for refund of tuition or lab fees. Students who have concerns regarding their status with the above regulations are encouraged to discuss the matter with the program prior to seeking admission.

Graduation Requirements

Applicants admitted to the program must follow the requirements for graduation at the time they are admitted and must meet all course, program, degree and sequencing requirements specified. Students are responsible for program policies as listed in each year's MLT Student Handbook. Students who fail to meet program specific requirements will be dropped from the program and may be required to re-apply and compete for admission in the succeeding year.

A grade of C or better is required for all courses in the degree. All students completing an AAS degree must complete graduation degree requirements in the front section of the blue pages of this catalog as well as the requirements specified for Human Relations coursework. Completion of the Board of Certification exam does not impact program completion. Health requirements are satisfied by students successfully completing BIOL 157 and 158, PSYC 151 and this Health Sciences curriculum.

For specific information concerning MLT program pass rate, degree completion, attrition rates, or job attainment/continuance of education, refer to swic.edu/mlt-performance-essentials.

Course Sequence

The program can be completed in four semesters and two summers. For information on course requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

The Program can be completed in four semesters and a summer. Due to the academic rigor of the MLT program, students are encouraged to complete the required biology and chemistry courses prior to enrolling in MLT 200 level classes. For information on course requisites, please refer to the *Course Descripton Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0022)

First Year

Fall Semester			**Semester Credits**
MATH	112	College Algebra **OR**	4
MATH	107	General Education Statistics	
CHEM	105	General Chemistry I **OR**	5
CHEM	101	Introductory Chemistry	
ENG	101	Rhetoric & Composition I	3
HRO	100	Medical Terminology	1
MLT	130	Specimen Collection and Handling *(eight weeks)*	2
MLT	150	Introduction to Clinical Laboratory *(eight weeks)*	2
Total Semester Credits			**17**

Spring Semester			**Semester Credits**
BIOL	157	Human Anatomy and Physiology I	4
CHEM	106	General Chemistry II* **OR**	5
CHEM	103	Introductory Organic and Biological Chemistry	
COMM	151	Fundamentals of Public Speaking **OR**	3
COMM	155	Interpersonal Communication	
MLT	220	Serology *(2nd eight weeks)*	2
MLT	260	Clinical Microscopy *(2nd eight weeks)*	2
Total Semester Credits			**16**

Summer Semester			**Semester Credits**
MLT	250	Coagulation	2
BIOL	158	Human Anatomy and Physiology II	4
PSYC	151	General Psychology	3
Total Semester Credits			**9**

Second Year

Fall Semester			**Semester Credits**
MLT	200	Hematology *(eight weeks)*	4
MLT	240	Immunohematology	4
MLT	270	Clinical Chemistry *(eight weeks)*	4
Human Relations Class**			3
Total Semester Credits			**15**

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Spring Semester			**Semester Credits**
MLT	210	Applied Clinical Microbiology *(eight weeks)*	4
MLT	230	Microbiology Clinical Practice	2
MLT	245	Clinical Practice I	5
MLT	275	Clinical Practice II	3
Total Semester Credits			**14**
Total Program Credits			**71**

*Recommend enrolling in CHEM 105 and CHEM 106 if pursuing a bachelor's degree after completion of this AAS degree. CHEM 101 and 103 transfer as elective credit only.
**See front pages of AAS degree requirements for the listing of Human Relations Elective options.
***MLT 100 may be substituted for MLT 130. Contact program coordinator.

Career Opportunities

Nationally, about 50 percent of MLTs are employed in hospital laboratories; the remainder work in independent labs, physicians' offices, public health agencies, the federal government, pharmaceutical and industrial firms, research and educational institutions. Ninety-five percent of SWIC's Medical Laboratory Technology graduates are working in hospital medical laboratories. Job opportunities continue to grow as the elderly population continues to increase.

Average Starting Salary

Based on graduate feedback and industry surveys, starting salaries average about $40,000-$50,000 annually. Salaries vary depending on the size and location of the health care facility. Salaries are higher when working on the second or third shifts.

Phlebotomy Certificate Program (021B)

This program provides training to beginning phlebotomy students. Students must complete MLT 100 Intro to Phlebotomy Procedures, followed by MLT 242, Phlebotomy Clinical. The Phlebotomy Clinical requires 80 hours of supervised experience with placement dependent upon availability of clinical facilities. A criminal background check and random drug test are also required prior to clinical experience. Students with positive results from either criminal background check or drug test will be dismissed with no refund of tuition or lab fees.

Those who successfully complete the following courses will be awarded a certificate of program proficiency. All courses require a grade of C or better.

Through 12/31/2027:

First Semester			**Semester Credits**
MLT	100	Introduction to Phlebotomy Procedures	2
MLT	242	Clinical Phlebotomy *(80 hour clinical)*	2
Total Credits			**4**

Effective 1/1/2027:

MLT	101	Phlebotomy Certification	4
Total Credits			**4**

Career Opportunities

Completion of the Phlebotomy Certificate will prepare the graduate to work as a phlebotomist in a physician's office, hospital, clinic or independent laboratory.

Medical Laboratory Assistant (022A)

In one semester, the Medical Laboratory Assistant program prepares graduates to perform basic preanalytic skills as a clinical laboratory professional. Medical Laboratory Assistants have limited patient contact, except when drawing blood. Assistants will learn how to order, collect, and process specimens in addition to the basics of laboratory testing with emphasis on quality control and good analytical practices. Courses from the certificate will bridge the Medical Laboratory Technology AAS degree. **See the program coordinator or an academic advisor for more information.**

Fall/Spring Semester			**Semester Credits**
MLT	130	Specimen Collection and Handling **OR**	2
MLT	110	Phlebotomy Skills	1
HRO	100	Medical Terminology	1
MLT	150	Introduction to Clinical Lab **OR**	2
MA	171	Medical Lab Orientation II	
MLT	243	Lab Processing Clinical	3
Total Credits			**7-8**

Career Opportunities

Completion of the Medical Laboratory Assistant certificate will prepare the graduate to work in a hospital, clinic or independent laboratory.

Nurse Assistant

swic.edu/nurse-assistant

Coordinators: Stephanie Reid, ext. 5906
Email: Stephanie.Reid@swic.edu
Dean: Faith Fields, ext. 7130
Email: Faith.Fields@swic.edu
Administrative Assistant: Candice Rodgers, ext. 5355

This one-semester certificate course, HRO 105 Nurse Assistant, prepares students to perform simple and basic functions under the supervision of a nurse and to apply for the certified nurse assistant competency test. The program's purpose is to provide the health care community with knowledgeable, skilled nurse assistants who recognize that the patient/resident/client is a unique individual with needs and rights deserving of holistic care.

Enrollment Requirements:

The admission procedures for the HRO-105 Nurse Assistant program are in accordance with Illinois law. The law requires programs not having sufficient space and resources to accommodate all applicants will accept those applicants best qualified, using rank, ability and achievement test scores as guides, with preference given to students residing in the district. Out-of-district students will be considered as in-district status for this application process if their community college has an Inter-district Cooperative/ Career agreement with SWIC (listed on page 19 of this catalog). To qualify for the application process, students must submit paperwork from their local community college to SWIC Enrollment Services by the application deadline. Contact the secretary of the Board of Trustees at your community college to get the required paperwork. Students must apply and be formally accepted into the Nurse Assistant program before enrolling in the HRO-105-prefix course. There are no waiting lists for admission into the program. If not admitted, interested applicants must re-apply. Refer to the Nurse Assistant Application Planning Guide for specific application requirements to enhance your potential for admission into this highly competitive application process. The Application Planning Guide is located on the Nurse Assistant webpage. Contact the coordinator, Stephanie.Reid@swic.edu if you have further questions.

Students enrolling in the seven-semester-credit HRO 105 Nurse Assistant course should be aware that criminal background check (fingerprints) and random drug testing are required. The criminal background check application form is completed during the mandatory orientation at the Belleville Campus prior to class start. See your course schedule for date and time. Fingerprints must be scheduled and completed prior to the first day of class. Due to clinical requirement, conviction of offenses in the following areas results in course dismissal: assault, sexual offenses, murder, burglary, arson, and robbery. Refer to the Health Care Worker Background Check Act for a complete list of disqualifying offenses at http://dph.illinois.gov/topics-services/health-care-regulation/health-care-worker-registry

To complete the course, students with "disqualifying" offense(s) will be asked to produce a waiver from the Illinois Department of Public Health. Waiver application forms along with instructions are located at http://dph.illinois.gov/topics-services/health-care-regulation/health-care-worker-registry. If a waiver cannot be produced prior to class start, the student will be withdrawn from the course. In addition, positive drug testing results will also result in course dismissal. NOTE: Positive drug testing results include use of illegal drugs or prescription medications which the student does not have a prescription. Marijuana, recreational or medical is a positive drug testing result.

Dismissal for positive criminal background check or drug test does not qualify students for refund of tuition or lab fees. Students who have concerns regarding their status with the above regulations are encouraged to discuss the matter with the program coordinator prior to enrolling in the class.

The annual Flu vaccine and testing for tuberculosis are also required. Essential functions of the student nurse assistant are listed in the NA Handbook and at swic.edu/student-nurse-functions. Students must be able to perform the essential functions with or without reasonable accommodations. Students are encouraged to contact the Student Accessibility & Support Services to discuss potential issues associated with meeting these requirements at 618-235-2700, ext. 5386. Students enrolling in all Health Sciences programs should be aware that some clinical facilities may require auto and/or health insurance. Malpractice insurance, when required, is provided by the college through assessment of lab fees. Some clinical sites may require drug testing. This information will be provided in the first class. Students must meet any requirements of the clinical sites or may be dropped from the program.

Nurse Assistant (025A) – Attendance Policy

Students enrolled in the HRO 105 Nurse Assistant course are subject to all of the provisions of the existing college catalog and IDPH program requirements with respect to attendance during the period of their enrollment. Attendance to orientation and all class and clinical sessions is required. Students exceeding IDPH allowance on absences will be dropped and do not qualify for refund of tuition/fees. Any missed time is cumulative.

			Semester Credits
HRO	105	Nurse Assistant	7

Career Opportunities

Following course completion and successful passage of the competency exam, graduates may be employed in acute, long-term care and home health to provide personal care under the direction of a registered nurse or licensed practical nurse.

Nursing Education

swic.edu/nursing

Coordinator : Elizabeth Alvarez, ext. 5009
Email: Elizabeth.Alvarez@swic.edu
Dean: Faith Fields, ext. 7130
Email: Faith.Fields@swic.edu
Administrative Assistant: Candice Rodgers, ext. 5355

Articulation Agreements

- Chamberlain College of Nursing – BS Nursing
- Central Methodist University - BS Nursing
- Grand Canyon University - BS Nursing
- McKendree University – BS Nursing
- SIU-Edwardsville – BS Nursing
- SIU-Carbondale – BS Nursing

Career Overview

The SWIC Nursing Education program prepares students with the basic skills necessary to become a registered nurse. RNs provide for the physical, mental and emotional needs of their patients. Nurses must have good knowledge of the principles and practices of nursing, interpersonal skills, oral and written communication skills, ability to relate to different cultural and economic backgrounds and organizational skills. They must also be able to set priorities and manage a caseload.

Nursing encompasses a variety of specialties: case manager, emergency/trauma, home health/hospice, infection control/ employee health, labor and delivery, medical/surgical, neonatal, pediatric, psychiatric, telemetry, transplant, etc. The job duties vary based on the working environment and the role of the nurse in that setting. For further information regarding the field of nursing, contact the National League for Nursing at www.Jobs.NLN.org

In accordance with the Illinois Nursing and Advanced Practice Nursing Act, the purpose of the Nursing Education curriculum at SWIC is to prepare students to:

1. Apply for the NCLEX-RN exam after successful completion of the program and to apply for licensure as registered professional nurses after successfully completing the NCLEX-RN.
2. Practice entry-level professional nursing only under the direct supervision of the registered professional nurse until item No. 1 has been accomplished.
3. Practice professional nursing at a beginning staff level after successfully completing the NCLEX-RN and receiving licensure as a registered professional nurse.

Contact an academic advisor to assist with career exploration.

About the Program

- Two-year Associate in Applied Science degree
- Selective admission to enroll in NE courses
- Applications are accepted Sept. 1 to Dec. 1 and April 1 to June 30
- Completion of biology, chemistry and algebra in high school or college is required to apply
- Supporting documentation deadline is Feb. 1 or August 31, depending on application cycle.
- Advanced placement for Licensed Practical Nurses and CNAs is available
- Online application located in your eSTORM Student Center

Licensure Requirements

Upon successful completion of the 68.5-semester-credit Nursing Education program with a C or better in all courses, graduates are awarded an Associate in Applied Science degree in Nursing Education and are eligible to take the computer adaptive NCLEX-RN exam. To practice as a registered nurse, graduates must pass the NCLEX-RN examination.

Program Accreditation

The SWIC Nursing Education program is a member of the National League for Nursing Council of Associate Degree Nursing Programs, and approved by the Illinois Department of Financial and Professional Regulation, located at 100 W. Randolph, Suite 9-300, Chicago, IL 60601, 312-814-4500; and accredited by the Accreditation Commission for Education in Nursing located at 3390 Peachtree Road NE, Suite 1400, Atlanta, GA 30326.

Admission Procedures/ Application Requirements

The admission procedures for the NE program are in accordance with Illinois law. The law requires programs not having sufficient space and resources to accommodate all applicants will accept those applicants best qualified, using rank, ability and achievement test scores as guides, with preference given to students residing in the district. Out-of-district students will be considered as in-district status for this application process if their community college has an Interdistrict Cooperative/ Career agreement with SWIC (listed on page 19 of this catalog). To qualify for the application process, students must submit paperwork from their local community college to SWIC Enrollment Services by the application deadline. Contact the secretary of the Board of Trustees at your community college to get the required paperwork. Students must apply and be formally accepted into the Nursing Education program before enrolling in NE-prefix courses. There are no waiting lists for admission to any Health Sciences program. If not admitted, interested applicants must re-apply. **Refer to the Nursing Education or Advanced Standing Nursing Application Planning Guides for specific application requirements to enhance your potential for admission into this highly competitive application process. Application Planning Guides are located on the Nurse Education webpage or contact the coordinators' assistant, ext. 5355.**

Selection of Applicants for Admission

Selection of qualified applicants will be based upon a numerical ranking procedure, using admission test scores, high school and/ or college grades, and TEAS exam scores. **Applicants should be aware that general education courses completed in the spring preceding potential summer entry will not be calculated in the numerical ranking unless there are fewer applicants than seats available.** To obtain more information on the program, call or an academic advisor, Belleville Campus, 2500 Carlyle Ave., 618-235-2700, ext. 5206; the Red Bud Campus, 500 W. South Fourth St., 618-282-6682, ext. 8114; or the Sam Wolf Granite City Campus, 4950 Maryville Road, 618-931-0600, ext. 7333.

Applicants will be notified of their status regarding admission as quickly as is possible given the number of applications received. In the event that there are fewer qualified candidates than there are spaces available, applications will continue to be accepted until the program's maximum capacity has been reached or until the first week of classes. Contact Enrollment Services at 618-235-2700, ext. 5455, to obtain information of a possible applications deadline extension. The college reserves the right to fill the program when there are fewer applicants than spaces available by whatever means it deems necessary to assure both academic integrity and fairness in the selection process.

In the event that there are more qualified applicants than spaces available in this program, those applicants residing outside District No. 522 or in a district that does not have a joint agreement with SWIC for this program, **will not be eligible for consideration or admission**. Resident status is determined by address on file with Enrollment Services.

LPN Articulation: Advanced Standing Application Process

An articulation process exists for Illinois LPNs. The articulation program will escrow up to 18 credits. Admission criteria will remain as listed for the traditional RN program. LPNs must complete the requisite courses and first-year general education courses prior to beginning the articulation program, unless waivers have been secured from the NE coordinator all courses must be successfully completed before entry into fall courses. Escrowed credits will be awarded pending successful completion of NE summer courses. If not successfully completed on the first attempt, no articulation provisions will apply and the traditional nursing program must be completed. Any LPN may opt not to enter the articulation program – but enter the traditional RN program. LPNs submit the application – "Advanced Standing Nursing Education for current LPNs."

Nurse Assistant Articulation Application/Bridge

An articulation process exists for certified Illinois nurse assistants. The articulation process will escrow 2.5 NE credits for Illinois certified nurse assistants. Admission criteria, requisite courses and general education courses will remain as listed for the traditional RN program. HRO 120 and HRO 100 must be completed successfully before entry into fall classes. The 2.5 credits will be awarded for NE 102, pending successful completion of NE 103/104 on the first attempt. If NE 103/104 is not completed successfully, no articulation provisions will apply. Any certified nurse assistant may opt not to enter the articulation program – but to enter the traditional RN program.

Transfer Students

Transfer credit may be obtained by transfer from accredited/ approved nursing programs provided program content and sequence are the same. Nursing courses over three years old will not be accepted for transfer. Transfer students must provide a letter from the previous nursing program administrator who must confirm that the student is considered to be "in good standing." "In good standing" means that the NE student could re-enroll in the NE program, if desired, without additional measures. Should transfer students not be confirmed in good standing by the documentation, the student (if accepted) will be considered to have had one course failure and only one course failure will be allowed. Program failures will be considered one course failure in the SWIC program. Transfer students should see the Nursing Education coordinator for more information.

Program Capacity

The Nursing Education program generally accepts: 60 students each fall semester at the Belleville Campus, 20 students each fall semester at the Sam Wolf Granite City Campus, 20 students each summer, and 45 each spring, depending on clinical and seat availability.

Program Location

The Nursing Education program consists of general education courses, NE-prefix courses and assigned clinical experience. Specific locations depend on the course.

1. The general education courses can be completed prior to admission at the Belleville, Red Bud or Sam Wolf Granite City campuses or online.
2. The NE courses are offered at the Belleville Campus during the day and at the Sam Wolf Granite Granite City campus during the evening. Once a student has been accepted into the NE program and has attended one class, the student is unable to switch between Day/Evening programs.
3. Clinical experiences are scheduled during the day, weekday or weekends at hospitals/clinics located throughout southern Illinois and in the St. Louis region. Students may be required to travel outside the college district for clinical experience courses. Specific clinical placement cannot be guaranteed, and specific clinical schedules may be changed during courses.

Applicants should check location and schedule of classes to ensure availability and access. Students are responsible for their own transportation and attendance to any of the classes and clinicals assigned by the program.

Orientation & Performance

Applicants accepted into this program must attend the required orientation session, meet program-specific requirements, be able to perform the essential functions of the job as listed in the Student Handbook or at swic.edu/student-nurse-functions with reasonable accommodation if needed, and submit results of background check, drug screen, physical examination and the hospital/clinical-required immunizations by the required date as presented in the orientation sessions. Any applicants or enrolled students are encouraged to contact the Student Accessibility & Support Services at 618-235-2700, ext. 5368, to discuss potential issues associated with meeting these requirements. Students not

able to perform the essential element of the job of a nurse may be unable to pass the required courses. Other program-specific restrictions may apply.

Health Insurance

Health insurance is required during clinical Nursing Education courses. Students are personally responsible for any costs incurred for injuries occurring during clinical experience in their role as student nurses.

Medical/Health Requirements

Per hospital/clinical-requirements, NE students are required to possess and maintain current American Heart Association CPR certification at the Basic Life Support level with AED and show proof of immunizations, tuberculosis test and physical examination before beginning any clinical experience. These requirements do not have to be fulfilled until after the program orientation meetings, but must be fulfilled by the required deadline.

Background Checks and Drug Testing

Criminal background check, random drug test and name search on government registries which prohibit employment in health care professions are required in our health science programs. Program start is contingent upon meeting deadlines for completion of the screening and results which allow the student to participate in the clinical portion of the program. Details and directions for accessing and purchasing online screening for background checks are shared with accepted students. Background checks are conducted for every state in which the student has worked or resided since the age of 18 years. Conviction of offenses in the following areas normally prohibit the student from participation in the clinical portion of the program and will result in program dismissal: assault, sexual offenses, murder, burglary, arson, and robbery. Refer to the Health Care Worker Background Check Act for a complete list of offenses at www.idph.state.il.us/nar/.

To participate in the clinical portion of the program, required clinical sites will be surveyed to determine if clinical placement can be accomplished for students with "disqualifying" offense(s). If the survey results indicate clinical sites prohibit the conviction, the student will be removed from the program.

In addition, positive results from the drug test or student listing on prohibitory government registry will also result in dismissal from the program. Note: Positive drug testing results from the use of illegal drugs or prescription medication which the student does not have a prescription. Marijuana, recreational or medical, is a positive drug testing result.

Dismissal for positive criminal background check, drug test, or listing on a government registry does not qualify students for refund of tuition or lab fees. Students who have concerns regarding their status with the above regulations are encouraged to discuss the matter with the program coordinator prior to seeking admission.

Graduation Requirements

Applicants admitted to the program must follow course requirements for graduation at the time they are admitted and must meet all course, program, degree and sequencing requirements specified. Posted changes in course requisites are applicable to all newly admitted students. Second-year students will continue to work from requisites listed when admitted. Students are responsible for program policies as listed in each year's Nursing Student Handbook. Students who fail to meet program specific requirements will be dropped from the program and may be required to re-apply and compete for admission in the succeeding year.

The Nursing Education courses must be completed within five years for traditional nursing students and five semesters for LPN articulation students. Students must follow the sequencing requirements. Students must repeat a failed course as soon as it is offered. An average grade of C (76 percent without rounding) is required to pass a test. The final exam must be completed with a C or higher; and a satisfactory in lab/clinical evaluation are the minimum requirements for passing nursing courses. Any standardized testing and course assignments must be completed by the course ending date. A grade of C is the minimum grade acceptable for ALL courses in the nursing curriculum. Please refer to the current Nursing Student Handbook for most recent program policies.

All students completing an AAS degree must complete graduation degree requirements in the front section of the blue pages of this catalog as well as the requirements specified for Human Relations coursework. Health requirements are satisfied by students successfully completing BIOL 157, 158, 250, PSYC 151, and this Health Sciences curriculum.

Course Sequence

The program can be completed in four semesters and one summer; however, it is recommended that students who wish to maximize points on the application complete General Education Courses (HRO 100/160, HRO 150, BIOL 157, 158 & 250, SOC 153, ENG 101 & 102, PSYC 151, and HRO 120, refer to swic.edu/academics/career-degrees/health-sciences/nursing-education/general-education/) prior to entrance into the program and in progression following the appropriate course requisites. For information on course requisites, please refer to the *Course Description Guide* (yellow section) in this catalog. All NE-prefix courses must be completed during the listed semesters.

Associate in Applied Science Degree (0025)

Prior to Nursing Courses

			Semester Credits
HRO	100	Medical Terminology**/***	1
HRO	120	Pharmacology**/***	3
Total Semester Credits			**4**

First Year

First Semester			**Semester Credits**
BIOL	157	Human Anatomy and Physiology I	4
HRO	150	Fundamentals of Nutrition**	2
NE	102	Intro to Nursing Procedures**/****	2.5
NE	103	Fundamentals of Nursing Care**	4
NE	104	Fundamentals of Nursing Lab**	1
NE	105	Human Growth and Development	2
Total Semester Credits			**15.5**

Second Semester			**Semester Credits**
BIOL	158	Human Anatomy and Physiology II	4
ENG	101	Rhetoric & Composition I	3
NE	101	Dosage Calculations **	0.5
NE	106	Maternal Health and Newborn	3.5
NE	107	Maternal Health and Newborn Lab	0.5
NE	108	Intro to Medical Surgical Care**	3.5
NE	109	Intro to Medical Surgical Lab **	0.5
Total Semester Credits			**15.5**

Second Year

First Semester			**Semester Credits**
BIOL	250	Microbiology	4
ENG	102	Rhetoric and Composition II	3
NE	206	Behavioral Health Nursing Lab	0.5
NE	207	Behavioral Health Nursing	3.5
NE	208	Medical Surgical Synthesis	0.5
NE	209	Medical-Surgical Nursing I	5
Total Semester Credits			**16.5**

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Second Semester			**Semester Credits**
PSYC	151	General Psychology	3
NE	210	Medical-Surgical Nursing II	3.5
NE	211	Medical-Surgical Nursing III	3.5
NE	212	Advanced Nursing Clinical	2.5
NE	213	Advanced Nursing Synthesis Lab	1.5
SOC	153	Introductory Sociology	3
Total Semester Credits			**17**
Total Program Credits			**68.5**

All students must complete graduation requirements in the front of the blue pages in this catalog for an Associate in Applied Science degree.

**May be escrowed for LPNs after transcript review.
***Must be completed to enroll in fall/spring Nursing Education courses
****May be escrowed for CNAs

Career Opportunities

A graduate of the Nursing Education program is prepared to work as a registered nurse following successful NCLEX-RN exam in general entry-level positions under the direction of a more experienced RN. Entry-level positions may be found in hospitals, public/community health settings, ambulatory care settings and nursing homes/extended care facilities.

Graduates who successfully pass the NCLEX-RN may also opt to continue their education at institutions which offer RN-Bachelor of Science in Nursing and RN-Master of Science in Nursing programs. Information on RN-BSN articulation/dual enrollment is available in the Nursing Education office.

Dual Admission

Dual admission allows students to transfer seamlessly from the Nursing Education program to the RN-BSN program.

Average Starting Salary

The average full-time starting salary is $40.74 per hour or $84,750 per year.

LPN Bridge (Course Sequence)

Summer Semester			**Semester Credits**
HRO	120	Pharmacology***	3
NE	105	Human Growth and Development	2
NE	106	Maternal Health and Newborn	3.5
NE	107	Maternal Health and Newborn Lab	0.5
Total Semester Credits			**9**

Fall Semester			**Semester Credits**
ENG	102	Rhetoric and Composition II	3
NE	206	Behavioral Health Nursing Lab	0.5
NE	207	Behavioral Health Nursing	3.5
NE	208	Medical Surgical Synthesis	0.5
NE	209	Medical-Surgical Nursing I	5
Total Semester Credits			**12.5**

Spring Semester			**Semester Credits**
PSYC	151	General Psychology	3
NE	210	Medical-Surgical Nursing II	3.5
NE	211	Medical-Surgical Nursing III	3.5
NE	212	Advanced Nursing Clinical	2.5
NE	213	Advanced Nursing Synthesis Lab	1.5
SOC	153	Introductory Sociology	3
Total Semester Credits			**17**
Total Program Credits			**38.5**

Practical Nursing

swic.edu/practical-nursing

Coordinator: Mandy Wollin, ext. 7130
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Dean: Faith Fields, ext. 7130
Email: Faith.Fields@swic.edu
Administrative Assistant: Candice Rodgers, ext. 5355

Career Overview

The SWIC Practical Nursing program prepares students with the basic skills necessary to become a Licensed Practical Nurse (LPN). LPNs are on the front line of nursing, interacting with patients on a daily basis in settings including hospitals, long-term care settings, doctors' offices, outpatient clinics or even home health. They work under the supervision of a registered nurse or physician and sometimes oversee certified nurse assistants. PNs provide basic bedside care for the sick, injured and convalescent, and do tasks such as give injections, take vital signs, collect samples, perform diagnostic tests, dress wounds, administer medication and report status of the patient. Key components include collaborating and collecting data on the health assessment of a patient, participating in the evaluation of patient responses to intervention, communicating with other healthcare professionals and serving as an advocate for the patient as delegated. The overall function of a licensed practical nurse is to ensure patient comfort and safety. For further information regarding the field of practical nursing, contact the American Nurses Association (ANA) at https://www.nursingworld.org/practice-policy/workforce/what-is-nursing/ and https://www.nursingworld.org/content-hub/resources/becoming-a-nurse/how-to-become-a-licensed-practical-nurse/.
Contact an academic advisor to assist with career exploration.

About the Program

- One-year certificate in practical nursing
- Starts: Summer semester (Red Bud Campus), Spring semester (Sam Wolf Granite City Campus) and Fall semester (Wyvetter Younge Higher Education Campus)
- Applications accepted April 1 through June 1 (for fall), June 1 through Aug 1 (for spring) and Jan. 31 through March 31 (for summer)
- To enroll, proof of skill in basic algebra, reading and writing required; advising will assist with methods to assess

The program is designed to include classroom education, auto-tutorial lab, simulation experiences and clinical application in long-term care, hospital, and healthcare office settings.

In accordance with the Illinois Nursing and Advanced Practice Nursing Act, 2017, the purpose of the Practical Nursing Education curriculum at SWIC is to prepare students to:
1. Apply for the NCLEX-PN exam after successful completion of the program and to apply for licensure as registered practical nurse after successfully completing the NCLEX-PN.
2. Practice entry-level practical nursing only under the direct supervision of the registered practical nurse until item No. 1 has been accomplished.
3. Practice practical nursing at a beginning staff level after successfully completing the NCLEX-PN and receiving licensure as a registered practical nurse.

Licensure Requirements

Upon successful completion of the Practical Nursing curriculum, graduates are awarded a certificate in practical nursing and are eligible to take the computer adaptive NCLEX-PN exam. To practice as a practical nurse, graduates must pass the NCLEX-PN examination. Graduates who pass the exam may apply to become Licensed Practical Nurses. All states require licensure to practice as a practical nurse.

Graduates who successfully pass the NCLEX-PN may also opt to continue their education at institutions which offer Associate Degree Nursing (ADN) programs or RN-Bachelor of Science in Nursing. Information on ADN or RN-BSN articulation/dual enrollment is available in the Nursing Education office.

Enrollment Requirements

Students must demonstrate knowledge of basic reading, writing, and math skills to enroll in first semester PN courses. This requires proof of students to be eligible for ENG 100/ENG 101 or ENG 101 and MATH 97. To obtain information about placement testing or alternate methods of assessing reading, writing, and math skills visit academic advising.

Students enrolling should be aware a criminal background check and drug testing are required.

Program Capacity

The Practical Nursing program accepts approximately 35 students each spring semester at the Sam Wolf Granite City Campus, approximately 24 students at the Wyvetter Younge Higher Education Campus, and 20 students at the Red Bud Campus, depending on clinical availability.

Program Location

The Practical Nursing Education program consists of PN-prefix courses and assigned clinical experience. Specific locations depend on the course.
1. The PN courses are offered at the Sam Wolf Granite Campus, the Wyvetter Younge Higher Education Campus, and the Red Bud Campus during the day of the semesters indicated.
2. Clinical experiences may be scheduled during the day, evening and/or weekends at hospitals/clinics located throughout Southern Illinois and in the St. Louis region. Students may be required to travel outside the college district for clinical experience courses. Specific clinical placement cannot be guaranteed, and specific clinical schedules may be changed during courses.
Students should check location and schedule of classes to ensure availability and access. Students are responsible for their own transportation and attendance at any of the classes and clinicals assigned by the program.

CNA Bridge to PN (Articulation)

A bridge process exists for Certified Illinios Nurse Assistants. The process will escrow two PN credits for Illinois certified nurse assistants. The two credits will be awarded for PN 100, pending successful completion of PN 101 on the first attempt. If PN 101 is not completed successfully, no credit will be applied. Any certified nurse assistant may opt not to enter the bridge program - but to enter the generic PN program.

Orientation & Performance

Students must attend the required orientation session meet program-specific medical requirements, be able to perform the essential functions of the job as listed in the Student Handbook or at **swic.edu/student-practical nurse-functions** with reasonable accommodation if need, and submit results of background check, drug screen, physical examination and the required immunizations by the required date as presented in orientation sessions. Any applicants or enrolled students are encouraged to contact the Student Accessibility & Support Services at 618-235-2700, ext. 5368, to discuss potential issues associated with meeting these requirements. Students not able to perform the essential element of the job of a practical nurse may be unable to pass the required courses. Other program-specific restrictions may apply.

Health Insurance

Health insurance is required during clinical Practical Nursing Education courses. Students are personally responsible for any costs incurred for injuries occurring during clinical experience in their role as student nurses.

Medical/Health Requirements

PN students will be required to possess and maintain current CPR certification at the Basic Life Support level and show proof of immunizations, tuberculosis test and physical examination before beginning any clinical experience. These requirements do not have to be fulfilled until after the program orientation meetings but must be fulfilled by the required deadline.

Background Checks and Drug Testing

Criminal background check, random drug test and name search on government registries which prohibit employment in health care professions are required in our health science programs. Program start is contingent upon meeting deadlines for completion of the screening and results which allow the student to participate in the clinical portion of the program. Details and directions for accessing and purchasing online screening for background checks are shared with accepted students. Background checks are conducted for every state in which the student has worked or resided since the age of 18 years. Conviction of offenses in the following areas normally prohibit the student from participation in the clinical portion of the program and will result in program dismissal: assault, sexual offenses, murder, burglary, arson, and robbery. Refer to the Health Care Worker Background Check Act for a complete list of offenses at www.idph.state.il.us/nar/.

To participate in the clinical portion of the program, required clinical sites will be surveyed to determine if clinical placement can be accomplished for students with "disqualifying" offense(s). If the survey results indicate clinical sites prohibit the conviction, the student will be removed from the program. In addition, positive results from the drug test or student listing on prohibitory government registry will also result in dismissal from the program. Note: Positive drug testing results from the use of illegal drugs or prescription medication for which the student does not have a prescription. Medical marijuana, which is not FDA approved, is also considered a positive drug testing result. Dismissal for positive criminal background check, drug test, or listing on a government registry does not qualify students for refund of tuition or lab fees. Students who have concerns regarding their status with the above regulations are encouraged to discuss the matter with the program coordinator or the coordinator's assistant prior to seeking admission.

Graduation Requirements

Students enrolled to the program must follow course requirements for graduation at the time they are admitted and must meet all course, program, certification and sequencing requirements specified. Posted changes in course requisites are applicable to all newly admitted students. Students are responsible for program policies as listed in the Practical Nursing Student Handbook. Students who fail to meet program specific requirements will be dropped from the program and may be required to re-enroll in the succeeding year. The Practical Nursing Education program must be completed within two years of the beginning of the practical nursing courses for the first time. Students must follow the sequencing requirements. Students must repeat a failed course as soon as it is offered. An average grade of C (76 percent without rounding) is required to pass a test. The final exam must be completed with a C or higher; and a satisfactory in lab/clinical evaluation are the minimum requirements for passing practical nursing courses. Any standardized testing and course assignments must be completed by the course ending date. A grade of C is the minimum grade acceptable for ALL courses in the practical nursing curriculum. Please refer to the current Practical Nursing Student Handbook for most recent program policies.

Practical Nursing Certificate (025C)*

First Year

Spring Semester			**Semester Credits**
PN	100	Fundamentals of Nursing I	2
PN	101	Fundamentals of Nursing II	3.5
PN	102	Fundamentals Clinical I	2
PN	140	Human Body Structure and Function	4
PN	142	Pharmacology	3.5
Total Semester Credits			15

Summer Semester			**Semester Credits**
PN	120	Nutrition in Nursing	2
PN	152	Mental Health Nursing	3
Total Semester Credits			**5**

Fall Semester			**Semester Credits**
PN	154	Obstetric and Newborn Nursing	3.5
PN	155	Pediatrics in Practical Nursing	2.5
PN	160	Medical Surgical Nursing I	3.5
PN	161	Med Surg Clinical I	2
PN	162	Medical Surgical Nursing II	3.5
PN	163	Med Surg Clinical II	2
Total Semester Credits			**17**
Total Program Credits			**37**

Paramedic/Paramedicine

swic.edu/paramedic

Coordinator: Anthony Perez, ext. 5343
Email: Anthony.Perez@swic.edu
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu
Administrative Assistant: Candice Rodgers, ext. 5355

Articulation Agreements

- SIUC – BS Public Safety Management

Career Overview

The SWIC Paramedic program prepares students for varying levels of pre-hospital care in emergency medicine. The most basic level of care is provided by the emergency medical technician. (See Emergency Medical Technician page in the blue section of this catalog). The highest level of support in pre-hospital patient care is provided by the Paramedic, who works under the direct supervision of an emergency room physician via radio/mobile communications. Paramedics receive extensive training in patient assessment and treatment that may include, but is not limited to, administration of medications and advanced life support measures, including conducting and interpreting electrocardiograms, electrical interventions to support cardiac functions, performing advanced airway management techniques and administering appropriate intravenous fluids. Paramedics typically work on an ambulance, but some work in hospital emergency departments with limited responsibilities.

Paramedics must have excellent judgement and be able to prioritize decisions and act quickly in the best interest of the patient while following the physician's directives. They need strong communication skills – spoken and written – and the ability to function independently in a non-structured environment that is constantly changing. They must possess good physical stamina, endurance and body condition that would not be adversely affected by frequently having to walk, stand, crawl, lift, carry and balance at times in excess of 125 pounds. For further information regarding the field of EMTs and Paramedics, refer to the U.S. Department of Labor: Occupational Outlook Handbook at www.bls.gov.

Contact the program coordinator for more information about this program.

About the Program

- Options: 15-month certificate or two-year Associate in Applied Science degree
- Selective admission for fall
- Applications accepted March 1 to June 1 for fall admission
- Online application available in your eSTORM Student Center
- Completion of BIOL 105 and Illinois EMT license required to apply
- Illinois EMT license and BLS certification must be on file by application deadline

Licensure Requirements

Upon successful completion of the 15-month Paramedic program, graduates are awarded the Paramedic Certificate (068B) and are qualified to challenge the National Registry of Emergency Medical Technicians paramedic-level cognitive and psychomotor exam. Once NREMT Certification is obtained, the student may apply for state licensure

Program Approval

The SWIC EMT/Paramedic program is recognized and approved by the Illinois Department of Public Health, located at 535 W. Jefferson St., Springfield, IL 62761, phone 217-782-4977. The paramedic program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

To contact CAAHEP:
Commission on Accreditation of Allied Health Education Programs
25400 U.S. Highway 19, Suite 158
Clearwater, FL 33763
www.caahep.org

To contact CoAEMSP:
8301 Lakeview Parkway, Suite 111-312
Rowlett, TX 75088
214-703-8445
Fax 214-703-8992
www.coaemsp.org

Degree Option

The Paramedic Certificate is a 38-semester-credit, 15-month program, which can be completed in four semesters. The curriculum includes EMS technical courses covering airway and breathing, cardiology, medical, trauma, OB-GYN, pediatrics and operations. The Paramedic Certificate begins each fall semester. Students frequently complete the certificate and then begin to complete the degree although that is not a requirement.

The Paramedicine AAS degree is a 69-semester-credit, two-year program, which can be completed in four semesters and one summer. The curriculum includes general education courses, EMS technical courses and assigned ambulance runs.

Students are required to demonstrate competency in technical skills during ambulance runs while enrolled in EMS courses. Observations in the intensive care unit, emergency room, operating room, and labor and delivery are also included in clinical time. Students are required to have background checks and drug testing prior to clinical experience work. Ambulance runs begin in the first semester of the Paramedic program.

Admission Procedures/Application

Requirements for the Paramedic Certificate

The admission procedures for the Paramedic program are in accordance with Illinois law. The law requires that programs not having sufficient space and resources to accommodate all applicants, will accept those applicants best qualified, using rank, ability and achievement test scores as guides, with preference given to students residing in the district. Out-of-district students will be considered as in-district status for this application process if their community college has an Interdistrict Cooperative/Career agreement with SWIC (listed on page 56 of this catalog). To qualify for the application process, students must submit paperwork from their local community college to SWIC Enrollment Services by the application deadline. Contact the secretary of the Board of Trustees at your community college to get the required paperwork. There are no waiting lists. If not admitted, interested applicants must re-apply the following semester. The SWIC paramedic program does not offer advanced placement for prospective candidates. Refer to the Paramedic Application Planning Guide for specific application requirements. Applicant Planning Guides are located at swic.edu/paramedic-program-standards.

Selection of Applicants for Admission

Applicants must have State of Illinois EMT license prior to application deadline. Applicants must complete BIOL 105 with a grade of C or better prior to beginning of EMS 205. Selection of qualified applicants for the Paramedic program will be based upon a numerical ranking procedure, using pre-admission EMT and math exam scores, grades in BIOL 105 and EMS 110 coursework, experience as an EMT, and the percentage of those general education courses required for completion of the Paramedicine degree completed prior to admission with a grade of B or better. To obtain more information on the entrance requirements for the Paramedic program call or visit an academic advisor, at Belleville Campus, 2500 Carlyle Ave., 618-235-2700, ext. 5206; the Red Bud Campus, 500 W. South Fourth St., 618-282-6682; or the Sam Wolf Granite City Campus, 4950 Maryville Road, 618-931-0600, ext. 7333.

Applicants will be notified of their status regarding admission as quickly as possible given the number of applicants received. In the event there are fewer qualified candidates than there are spaces available, applications will continue to be accepted until the program's maximum capacity has been reached at each of the campuses or until the first week of classes during the fall semester. Contact Enrollment Services at 618-235-2700, ext. 5455, to obtain information of the possible application deadline extensions. The college reserves the right to fill the program in those years when there are fewer applicants than spaces available by whatever means it deems necessary to assure both academic integrity and fairness in the selection process.

In the event there are more qualified applicants than spaces available in this program, those applicants residing outside District No. 522 or in a district that does not have a joint agreement with SWIC for this program will not be eligible for consideration or admission if there are more applicants than position to be filled. Resident status is determined by address on file with Enrollment Services.

Program Capacity

The Paramedic Certificate program generally accepts 20 students in the fall semester.

Program Location

The Paramedic Certificate program consists of the core paramedic EMS-prefixed courses, two Fire Science courses (FS 280 and 160) and a general education course – BIOL 105. The Paramedicine AAS degree consists of all the Paramedic Certificate courses, additional general education courses and approved electives. Field experience and clinical practice are also part of the educational process for both programs. Specific course locations depend on the course type.

1. The general education courses and approved electives are generally available at the Belleville, Red Bud or Sam Wolf Granite City campuses.
2. The core paramedic EMS-prefixed courses are offered at Belleville Campus.
3. Field experience and clinical practice are primarily completed within the college district, but there are some experiences in the St. Louis region and outside of the college district. Field experience is offered through various ambulance services within the EMS system.

   Students should check location and schedule of classes to ensure availability and access. Students are responsible for their own transportation and attendance to any of the locations assigned by the program.

Time Commitment

Paramedic certificate – 15-month sequence

Lecture and Lab - classes generally meet Tuesdays and Thursdays, and periodically classes will meet Fridays, Saturdays and/or Sundays.

Clinical experience is scheduled during the program, typically between 48-72 hours per month for each experience. Ambulance runs begin in the first semester of the Paramedic Certificate program.

Orientation & Performance

Applicants accepted to this program must attend all required orientation sessions and be able to perform the professional technical standards of the job with or without reasonable accommodations. The technical standards can be found at swic.edu/paramedic-program-standards. Applicants or enrolled students are encouraged to contact the Student Accessibility & Support Services at 618-235-2700, ext. 5368 to discuss potential issues associated with meeting these requirements.

Students are required to demonstrate competency in technical skills during ambulance runs while enrolled in EMS courses. Observations in the intensive care unit, emergency room, operating room, and labor and delivery are also included in clinical time.

Insurance
Health insurance is required during clinical practice and field experience courses. Students are personally responsible for any costs incurred for injuries occurring during their clinical practice or field experience.

Medical/Health Requirements
These requirements do not have to be fulfilled until further explained by program personnel after admission. Students will be required to possess current CPR certification at the Health Care Provider level and show proof of immunizations, tuberculosis test, physical examination, and health insurance coverage before beginning any clinical practice/field experience.

Additional Courses
In addition to the EMS courses, students are required to enroll and successfully complete FS 280 Hazardous Materials Awareness and FS 160 Technical Awareness to complete the Paramedic Certificate. Enrollment in these FS courses will be coordinated by the instructor. Students may be required to provide prescribed personal protective equipment for fire science courses. See the program website for additional costs for this program.

Background Checks and Drug Testing
Criminal background check, random drug test and name search on government registries which prohibit employment in health care professions are required in our health science programs. Program start is contingent upon meeting deadlines for completion of the screening and results which allow the student to participate in the clinical portion of the program. Details and directions for accessing and purchasing online screening for background checks are shared with accepted students. The cost of the criminal background check and drug test is the responsibility of the student. Background checks are conducted for every state in which the student has worked or resided since the age of 18 years. Conviction of offenses in the following areas normally prohibit the student from participation in the clinical portion of the program and will result in program dismissal: assault, sexual offenses, murder, burglary, arson, and robbery. Refer to the Health Care Worker Background Check Act for a complete list of offenses at www.idph.state.il.us/nar/.

To determine student's ability to participate in clinicals with specific offenses, clinical sites are surveyed to determine if clinical placement can be accomplished. If survey results indicate clinical sites prohibit the conviction, the student will be removed from the program.

In addition, positive results from the drug test or student listing on prohibitory government registry will also result in dismissal from the program. Note: Positive drug testing results from the use of illegal drugs or prescription medication which the student does not have a prescription. Marijuana, recreational or medical is a positive drug testing result.

Dismissal for positive criminal background check, drug test, or listing on a government registry does not qualify students for refund of tuition or lab fees. Students who have concerns regarding their status with the above regulations are encouraged to discuss the matter with the program coordinator prior to seeking admission.

Graduation Requirements
Applicants admitted to the program must follow the requirements for graduation at the time they are admitted and must meet all course, program, degree and sequencing requirements specified. Students are responsible for program policies as listed in the program handbook. Completion of all courses within hte degree and certificate with a "C" or better is required. All students who fail to meet program-specific requirements will be dropped from the program and may be required to re-apply and compete for admission in the succeeding semester.

Course Sequence
The Paramedic Certificate program can be completed in 15 months/four semesters. Students frequently complete the certificate prior to the general education courses in the degree; however, that is not a requirement. Current Illinois EMT licensure is a requisite to the program. This can be accomplished by completing the EMS 110 course and passing the licensure exam. See *Course Description Guide* (yellow pages of catalog) for other course requirements.

Paramedic Certificate (068B)

BIOL	105	Human Biology OR	
EMS	120	A & P and Pathophys for EMS	4
EMS	205	Intro to Paramedicine	8.5
EMS	206	Paramedic Medical Emergencies	4.5
EMS	207	Paramedic Trauma	4
EMS	208	Paramedic Special Pts & Ops	5
EMS	210	Paramedic Clinical Practice I	1
EMS	211	Paramedic Clinical Practice II	1
EMS	212	Paramedic Clinical Practice III	1
EMS	213	Paramedic Clinical Practice IV	1
EMS	220	Paramedic Field Internship	2
EMS	221	Paramedic Field Internship I	1
EMS	222	Paramedic Field Internship II	1
EMS	223	Paramedic Field Internship III	1
EMS	224	Paramedic Field Internship IV	2
FS	280	Hazardous Materials – Awareness	.5
FS	160	Tech Rescue Awareness	.5
Total Credits			**38**

All Paramedic Core Courses must be completed before or during semesters indicated below, unless permission is given by the program coordinator.

Important Information
The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Paramedicine
Associate in Applied Science Degree (0068)

First Year

Summer Semester			**Semester Credits**
BIOL	105	Human Biology OR	
EMS	120	A & P and Pathophys for EMS	4
HRO	100	Medical Terminology	1
Total Semester Credits			**5**

Fall Semester			**Semester Credits**
EMS	205	Intro to Paramedicine	8.5
EMS	210	Paramedic Clinical Practice I	1
EMS	220	Paramedic Field Experience	2
FS	160	Technical Rescue Awareness	.5
FS	280	Hazardous Materials Awareness	.5
HRO	120	Pharmacology	3
Total Semester Credits			**15.5**

Spring Semester			**Semester Credits**
EMS	206	Paramedic Medical Emergencies	4.5
EMS	211	Paramedic Clinical Practice II	1
EMS	221	Paramedic Field Internship I	1
EMS	207	Paramedic Trauma	4
EMS	212	Paramedic Clinical Practice III	1.5
EMS	222	Paramedic Field Internship II	1
Approved Electives			3
Total Semester Credits			**15.5**

Second Year

Summer Semester			**Semester Credits**
EMS	208	Paramedic Spec Pts & Ops	5
EMS	213	Paramedic Clinical Practice IV	1
EMS	223	Paramedic Field Internship III	1
Total Semester Credits			**7**

Fall Semester			**Semester Credits**
EMS	224	Paramedic Field Internship IV	2
ENG	101	Rhetoric & Composition I	3
PSYC	151	General Psychology	3
COMM	151	Fundamentals of Public Speaking **OR**	
COMM	155	Interpersonal Communication	3
Human Relations Elective			3
Total Semester Credits			**14**

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Second Year

Spring Semester			**Semester Credits**
PSYC	210	Life-Span Development **OR**	
PSYC	270	Health Psychology	3
Approved Electives*			9
Total Semester Credits			**12**

Total Program Credits **69**

* Electives must be selected from the following list of approved courses or be approved by the program coordinator.

Approved Electives			**Semester Credits**
BIOL	157	Human Anatomy and Physiology I	4
BIOL	158	Human Anatomy and Physiology II	4
PSYC	200	Applied Psychology	3
PSYC	253	Adult Development & Aging	3
PSYC	254	Death and Dying	3
PSYC	259	Clinical Psychology	3
SOC	210	Criminological Theory	3
SOC	265	Aging & Society	3
POLS	150	Intro to American Government	3
MGMT	213	Human Relations in the Workplace	3
MGMT	214	Principles of Management	3
MGMT	217	Human Resource Management	3
BUS	240	Ethics in the Workplace	3
EMS	105	Emergency Medical Responder	4
EMS	110	Emergency Medical Technician	8
EMS	299	Special Topics in EMS	.5-5
HRO	160	Medical Terminology	3
FS	260	Vehicle Rescue Operations	3
FS	281	Hazardous Materials - Operations	3
HS	100	Intro to Homeland Security	3
HRO	101	Health Science Careers	2

Career Opportunities
EMTs and paramedics employed by fire departments work an average of 60 hours per week. Those employed by hospitals frequently work between 40 and 50 hours per week, and those in private ambulance services, between 40 and 72 hours. Some of these workers, especially those in police and fire departments, are on call for extended periods. Because emergency services function 24 hours a day, EMTs and paramedics have irregular working hours. Some paramedics work as part of the flight crew on helicopters that transport critically ill or injured patients to hospital trauma centers.

According to the U.S. Department of Labor: Employment is projected to grow much faster than average as paid emergency medical technician positions replace unpaid volunteers, and competition will be greater for jobs in local fire, police and rescue squad departments than in private ambulance services. Opportunities are best for those who have advanced certification.

Average Starting Salary
Earnings of EMTs and paramedics depend on the employment setting and geographic location as well as the individual's training and experience. Based on a survey of our graduates, the average annual earnings of EMTs and paramedics are between $40,000 and $70,000 annually.

Critical Care Transport Certificate (068D)
This certificate program provides training to licensed paramedics and registered nurses who desire to become members of a critical care transport team. The program is designed to prepare students for the Critical Care Paramedic (CCP-C), Certified Flight Paramedic (FP-C), and Certified Flight Registered Nurse (CFRN) exams as a means to become members of a critical care

transport team. Students must be currently licensed paramedics or nurses, have at least two years of experience as a paramedic or registered nurse in an emergency setting, have current ACLS, PALS, ITLS/PHTLS provider certifications. Students must be approved by a program coordinator prior to enrolling in any course within this certificate program. The Critical Care Transport Certificate Program generally accepts 16 students each fall semester. Students are required to complete a criminal background check and random drug test prior to starting any clinical portion of this program. Student are also required to show proof of immunizations, tuberculosis screening and health insurance prior to beginning any clinical portion of this program.

Those who complete the following courses will be awarded a certificate of program proficiency. All courses require a grade of C or better.

First Semester			**Semester Credits**
EMS	270	Critical Care Transport I	3
EMS	271	Critical Care Transport II	3

Second Semester			**Semester Credits**
EMS	275	Critical Care Transport Experience (clinical)	1

Total Semester Credits	7

Career Opportunities

Completion of the Critical Care Transport Certificate will prepare students for the Critical Care Paramedic (CCP-C), Certified Flight Paramedic (FP-C), and Certified Flight Registered Nurse (CFRN) exams in order to work for ground or air critical care transport organizations.

Paraprofessional

Coordinator/Faculty: Jessica Day, ext. 5011
Email: Jessica.Day@swic.edu
Dean: Darrell Robin, Ed.D., ext. 5227
Email: Darrell.Robin@swic.edu

The Paraprofessional Certificate Program at Southwestern Illinois College prepares students for immediate employment as paraprofessionals, teacher assistants, and instructional support professionals in K–12 schools and special education settings. The program develops foundational skills in teaching and learning, educational technology, inclusive practices, child development, and professional communication, while also preparing students to successfully pass the Illinois Paraprofessional Licensure exam. Courses emphasize hands-on practice, culturally responsive strategies, and real-world application through required work-based learning experiences. Students may also choose to enroll in the Paraprofessional Apprenticeship Program, if they choose to work as a paid paraprofessional while they earn course credits.

This certificate serves students entering the workforce as a paraprofessional, upskilling current paraprofessionals, or beginning an academic journey toward an associate or bachelor's degree in education. A background check is necessary for this program.

Paraprofessional Certificate (0093)

			Semester Credits
ENG	101	Rhetoric & Composition	3
ED	255	Introduction to Education	3
ED	260	Introduction to Educational Technology	3
ED	265	Introduction to Special Education	3
ED	276	Methods & Materials for Teaching Diverse Learners	3
ED	293	Children's Literature	3
ED	120	Paraprofessional Test Prep	1
Total Semester Credits			**19**

Career Opportunities

Students are prepared for employment in a variety of instructional support roles, including:

- Teaching Assistants (25-9045)
- Special Education Paraprofessionals (25-9043)
- Educational Instruction and Library Workers, All Other (25-9099)

Pharmacy Technician

swic.edu/pharmacy-tech

Coordinator: Melissa Epps, MPH, RPh, ext. 5315
Email: Melissa.Epps@swic.edu
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu
Administrative Assistant: Candice Rodgers, ext. 5355

Career Overview

The SWIC Pharmacy Technician program prepares students with the basic skills necessary to become a "nationally credentialed" pharmacy technician, prepared to work in hospital or a retail-based pharmacy. Pharmacy technicians assist the pharmacist in the preparation and distribution of medications, maintaining the drug inventory, patient, and pharmacy records in a manner consistent with all federal, state, and local laws and regulations. For further information regarding the field of pharmacy technicians go to the Occupational Outlook Handbook: bls.gov/ooh/healthcare/pharmacy-technicians.htm#tab-2

About the Program

- One-semester certificate
- Offered: spring and fall semesters
- To enroll, must have high school diploma or GED, or GED in process with the Math and English portions of the GED exam completed and be eligible for Math 97 or higher or completion of Math 95 with a C or better. Eligible for Eng 100+Eng 101 or completion of Eng 97 with a C or better
- Certification in Illinois requires students to be at least 16 years old

The program is designed to include classroom education, laboratory/simulation and clinical experience in a pharmacy setting.

Certification Requirements

Upon successful completion of the Pharmacy Technician curriculum, graduates are awarded a certificate as a pharmacy technician. To work in Illinois, graduates of the program must provide proof of graduation from a pharmacy technician training program and attain successful passage of an examination certified by the Institute for the Certification of Pharmacy Technicians and the Pharmacy Technician Certification Board. Illinois requires national certification through PTCB, NHA and registration with the Illinois Department of Financial and Professional Regulation. A Pharmacy Technician must successfully pass a certification exam before the yearly renewal date of their Illinois Pharmacy Technicial License, which is typically renewed once a year.

Enrollment Requirements

To enroll in Pharmacy Technician classes, students must demonstrate readiness for college-level English and math. To obtain information about readiness, visit an academic advisor.

Students should be aware they must pass a criminal background check and drug testing to participate in required clinicals.

Students will need to obtain an Illinois Pharmacy Technician Liscense through Illinois Department of Professional Regulations or the Missouri Division of Professional Regulation Board of Pharmacy before they go to the first clinical rotation.

Program Capacity

The Pharmacy Technician program has capacity for approximately 25 students each spring and fall semesters at the Belleville and Sam Wolf Granite City Campuses. Seats available are dependent on clinical availability.

Program Location

The Pharmacy Technician program consists of PHAR-prefix courses and assigned clinical practicum. Specific locations depend on the course.

1. The PHAR courses are offered at the Belleville and Sam Wolf Granite City Campuses.
2. Clinical experiences may be scheduled during the day, evening and/or weekends at pharmacies located throughout Southern Illinois and in the St. Louis region. Students may be required to travel outside the college district for clinical practicum courses. Specific clinical placement cannot be guaranteed, and specific clinical schedules may be changed during courses.

Orientation & Performance

Students must attend the required orientation session prior to the start of the program, meet program-specific medical requirements, be able to perform the essential functions of the job as listed in the Student Handbook or at swic.edu/pharmacy-tech with reasonable accommodation if needed, and submit results of background check, drug screening, physical examination and the required immunizations by the required date as presented in orientation sessions. Any applicants or enrolled students are encouraged to contact the Student Accessibility & Support Services at 618-235-2700, ext. 5368, to discuss potential issues associated with meeting these requirements. Students not able to perform the essential elements of a pharmacy technician position may be unable to pass the required courses. Other program-specific restrictions may apply.

Health Insurance

Health insurance is required during clinical Pharmacy Technician courses. Students are personally responsible for any costs incurred for injuries occurring during clinical experience in their role as student pharmacy technicians.

Medical/Health Requirements

Admitted students will be required to show proof of a physical examination before beginning any clinical experience. These requirements do not have to be fulfilled until after the program orientation meetings but must be fulfilled by the required deadline.

Background Checks and Drug Testing

Criminal background checks, random drug tests and name searches on government registries which prohibit employment in health care professions are required in our health science programs. Being able to start the program is contingent upon meeting deadlines for completion of the screening and results which allow the student to participate in the clinical portion of the program. Details and directions for accessing and purchasing online screening for background checks are shared with accepted students. Background checks are conducted for every state in which the student has worked or resided since the age of 18 years old. Conviction of offenses in the following areas normally prohibit the student from participation in the clinical portion of the program and will result in program dismissal: assault, sexual offenses, murder, burglary, arson, and robbery. Refer to the Health Care Worker Background Check Act for a complete list of offenses at www.idph.state.il.us/nar/.

To participate in the clinical portion of the program, required clinical sites will be surveyed to determine if clinical placement can be accomplished for students with "disqualifying" offense(s). If the survey results indicate clinical sites prohibit the conviction, the student will be removed from the program.

In addition, positive results from the drug test or student listing on prohibitory government registry will also result in dismissal from the program. Note: Positive drug testing results from the use of illegal drugs or prescription medication for which the student does not have a prescription. Medical marijuana, which is not FDA approved, is also considered a positive drug testing result. Dismissal for positive criminal background check, drug test or listing on a government registry does not qualify students for refund of tuition or lab fees. Students who have concerns regarding their status with the above regulations are encouraged to discuss the matter with the program coordinator or the coordinator's assistant prior to seeking admission.

Graduation Requirements

Students enrolled in the program must follow course requirements for graduation at the time they are admitted and must meet all course, program, certification and sequencing requirements specified. Posted changes in course requisites are applicable to all newly admitted students. Students are responsible for program policies as listed in the Pharmacy Technician Student Handbook. Students must complete the curriculum within one year of initial enrollment. A grade of C is the minimum grade acceptable for ALL courses in the Pharmacy Technician curriculum.

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Pharmacy Technician Certificate (0034)

Spring/Fall Semester			Semester Credits
PHAR	101	Affective Knowledge & Skills	4.5
PHAR	110	Pharmacy Regs & Standards	4
PHAR	120	Clinical Practicum I	2
PHAR	130	Medication Order Processing	3.5
PHAR	140	Clinical Practicum II	2
Total Semester Credits			**16**

Career Opportunities

Pharmacy technicians work in pharmacies located in a variety of settings including drug, general merchandise, grocery stores and hospitals.

Average Starting Salary

According to the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook, the median wage for pharmacy technicians is $40,300. Hourly and salary ranges can vary, dependent on the hiring facility and demographics.

Physical Therapist Assistant

swic.edu/pta

Coordinator/Faculty: Jeannette Saak, ext. 5390
Email: Jeannette.Saak@swic.edu
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu
Administrative Assistant: Candice Rodgers, ext. 5355

Articulation Agreements

- Maryville Unicesity University- BA Healthcare Management

Career Overview

The SWIC Physical Therapist Assistant program prepares students to work as skilled health care providers, who under the supervision and direction of a physical therapist, treat patients of all ages with medical problems, or other health-related conditions that limit their ability to move and perform functional activities in their daily lives. Physical therapist assistants have a high level of patient contact. Duties include: monitoring and reporting patient status, providing selected interventions, modifying care within a therapist's plan, documenting, working with other health care professionals, and supervising physical therapy aides or technicians, where applicable. PTAs are frequently involved in educating the patient, caregiver, family and community in the management of health care problems and preventative measures. For further information regarding the field of physical therapy, refer to the American Physical Therapy Association website at www.apta.org.

About the Program

- Two-year Associate in Applied Science degree
- Selective admission for fall semester start
- Recommend the following coursework in high school to prepare for health science occupation: Four years of English, algebra and geometry, biology, and social science courses. Keyboarding and computer application courses, chemistry, and anatomy & physiology
- Applications are accepted September 1 to May 20
- Online application available in your eSTORM Student Center

Licensure Requirements

CAPTE accreditation of a physical therapist or physical therapist assistant program satisfies state educational requirements in all states, the District of Columbia, Puerto Rico, and the U.S. Virgin Islands. Thus, students graduating from CAPTE-accredited physical therapist or physical therapist assistant education programs are eligible to take the National Physical Therapy Examination for the PTA and apply for licensure in all states, the District of Columbia, Puerto Rico, and the U.S. Virgin Islands. For information regarding state qualifications and licensure requirements, refer to the Federation of State Boards of Physical Therapy website at www.fsbpt.org.

Program Accreditation

The Physical Therapist Assistant program at SWIC is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 3030 Potomac Ave. Suite 100, Alexandria, VA 22305-3805: phone 800-999-2782, email: accreditation@apta.org, and website: capteonline.org. The program's curriculum is guided by the standards developed by the commission. Our accreditation status means SWIC has met the standards required and helps to assure the public that our curriculum will graduate competent clinicians.

Admission Procedures/ Application Requirements

The admission procedures for the PTA program are in accordance with Illinois law. The law requires that programs not having sufficient space and resources to accommodate all applicants will accept those applicants best qualified, using rank, ability and achievement test scores as guides, with preference given to students residing in the district. Out-of-district students will be considered as in-district status for this application process if their community college has an Interdistrict Cooperative/ Career agreement with SWIC (listed on page 56 of this catalog). To qualify for the application process, students must submit paperwork from their local community college to SWIC Enrollment Services by the application deadline. Contact the secretary of the Board of Trustees at your community college to get the required paperwork. There are no waiting lists for admission to any SWIC Health Sciences program. If not admitted, interested applicants must re-apply the following year. **Refer to the PTA Application Planning Guide for specific application requirements and to enhance your potential for admission. Application Planning Guides are located on the Physical Therapist Assistant webpage.**

Selection of Applicants for Admission

Selection of qualified applicants for the Physical Therapist Assistant program will be based upon a numerical ranking procedure, using cumulative GPA and percentage of those general education courses required for graduation completed prior to admission with a grade of B or better. To obtain more information on the entrance requirements for the Physical Therapist Assistant program, call or visit an academic advisor, Belleville Campus, 2500 Carlyle Ave., 618-235-2700, ext. 5206; the Red Bud Campus, 500 W. South Fourth St., 618-282-6682, ext. 8114; or the Sam Wolf Granite City Campus, 4950 Maryville Road, 618-931-0600, ext. 7333.

Applicants will be notified of their status regarding admission as quickly as possible given the number of applications received, early June. In the event that there are fewer qualified candidates than there are spaces available, applications will continue to be accepted until the program's maximum capacity has been reached or until the first week of classes during the fall semester. Contact Enrollment Services at 618-235-2700, ext. 5455, to obtain information of a possible application deadline extension. The college reserves the right to fill the program in those years when there are fewer applicants than spaces available by whatever means it deems necessary to assure both academic integrity and fairness in the selection process.

In the event that there are more qualified applicants than

spaces available in this program, those **applicants who reside outside District No. 522** or in a district without a joint agreement for this program **will not be eligible for consideration or admission.** Resident status is determined by the address on file with Enrollment Services by Feb. 1.

Program Capacity

The Physical Therapist Assistant program accepts 20 students each fall semester.

Program Location

The Physical Therapist Assistant program consists of general education courses, PTA-prefixed courses and assigned clinical experience courses. Specific locations depend on the course type.

1. The general education courses can be taken at the Belleville, Red Bud or Sam Wolf Granite City campuses and can be completed prior to admission.
2. The PTA courses are only offered at the Belleville Campus during the day of the semesters indicated on the degree outline after acceptance into program.
3. Clinical experience is located throughout southern Illinois and in the St. Louis region. Specific clinical placement cannot be guaranteed. You may have to travel for clinical experiences.

Applicants should check location and schedule of classes to ensure availability and access. Students are responsible for their own transportation and attendance at any of the classes and clinicals assigned by the program. See PTA handbook on the program website for class schedules.

Orientation & Performance

Applicants accepted to this program must attend all required orientation sessions and be able to perform the essential functions of the job with or without reasonable accommodations. The essential functions can be found on the program website in the PTA Handbook. Applicants and enrolled students are encouraged to contact the Student Accessibility & Support Services at 618-235-2700, ext. 5368, to discuss potential issues associated with meeting these requirements.

Health Insurance

Health insurance is required during clinical education courses. Students are personally responsible for any costs incurred for injuries occurring during their clinical experience.

Medical/Health Requirements

PTA students will be required to show proof of medical examination and all applicable tests, immunizations, and vaccinations prior to start of program. Health insurance coverage is verified before beginning any clinical experience course. These requirements do not have to be fulfilled prior to admission and are further explained upon acceptance into the program.

Background Checks and Drug Testing

Criminal background check, random drug test and name search on government registries which prohibit employment in health care professions are required in our health science programs. Program start is contingent upon meeting deadlines for completion of the screening and results which allow the student to participate in the clinical portion of the program. Details and directions for accessing and purchasing online screening for background checks are shared with accepted students. Background checks are conducted for every state in which the student has worked or resided since the age of 18 years. Conviction of offenses in the following areas normally prohibit the student from participation in the clinical portion of the program and will result in program dismissal: assault, sexual offenses, murder, burglary, arson, and robbery. Refer to the Health Care Worker Background Check Act for a complete list of offenses at www.idph.state.il.us/nar/.

To participate in the clinical portion of the program, required clinical sites will be surveyed to determine if clinical placement can be accomplished for students with "disqualifying" offense(s). If the survey results indicate clinical sites prohibit the conviction, the student will be removed from the program.

In addition, positive results from the drug test or student listing on prohibitory government registry will also result in dismissal from the program. Note: Positive drug testing will result from the use of illegal drugs or prescription medication which the student does not have a prescription. Medical marijuana, which is not FDA approved, is also considered a positive drug testing result.

Dismissal for positive criminal background check, drug test, or listing on a government registry does not qualify students for refund of tuition or lab fees. Students who have concerns regarding their status with the above regulations are encouraged to discuss the matter with the program coordinator or the Health Sciences coordinator's assistant prior to seeking admission.

Graduation Requirements

Applicants admitted to the program must follow the requirements for graduation at the time they are admitted and must meet all course, program, degree and sequencing requirements specified. Students are responsible for program policies as listed in each year's PTA Handbook. Students who fail to meet program-specific requirements will be dropped from the program and may be required to re-apply and compete for admission in the succeeding year. A grade of C or better is required for all courses in the degree.

All students completing an AAS degree must complete graduation degree requirements in the front section of the blue pages of this catalog as well as the requirements specified for Human Relations coursework (met by completing SOC 153). Health requirements are satisfied by students successfully completing BIOL 105, PSYC 151 and this health science curriculum.

Associate in Applied Science Degree (0027)

First Year

Fall Semester			**Semester Credits**
BIOL	105	Human Biology*	4
ENG	101	Rhetoric & Composition I	3
HRO	100	Medical Terminology	1
PTA	100	Introduction to Physical Therapy	1
PTA	101	Physical Therapy Science and Skills	5
PTA	102	Patient Care Skills & Assessment	2
PTA	110	Anatomy and Physiology for the PTA	2
Total Semester Credits			**18**

Spring Semester			**Semester Credits**
PSYC	151	General Psychology	3
PTA	150	Theory of Physical Agents I	3
PTA	151	Application of Physical Agents I	1.5
PTA	160	Kinesiology & Clinical Orthopedics	5
PTA	161	Orthopedic Interventions	2
PTA	165	Pathology I	3
Total Semester Credits			**17.5**

Summer Semester			**Semester Credits**
PSYC	210	Life-Span Development**	3
PTA	170	Clinical Experience I	4
Total Semester Credits			**7**

Second Year

Fall Semester			**Semester Credits**
COMM	151	Fundamentals of Public Speaking	3
PTA	210	Therapeutic Exercise & Rehabilitation	5
PTA	211	Rehabilitation Techniques	2
PTA	220	Pathology II	4
PTA	221	Advanced Therapeutic Interventions	1.5
Total Semester Credits			**15.5**

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Spring Semester			**Semester Credits**
SOC	153	Introductory Sociology	3
PTA	270	Clinical Experience II	8
PTA	280	Clinical Seminar	2
Total Semester Credits			**13**

Total Program Credits	**71**

*BIOL 157 & 158 can replace BIOL 105.
**PSYC 210 cannot be replaced with other 200 level PSYC courses

Course Sequence

The program can be completed in five semesters; however, it is recommended that students who wish to maximize points on the application complete General Education Courses (BIOL 105, ENG 101, PSYC 151, HRO 100, COMM 151, SOC 153, PSYC 210) prior to entrance into the program and in progression following the appropriate course requisites. For information on course requisites, please refer to the Course Description Guide (yellow section) in this catalog. All PTA-prefix courses must be completed during the listed semesters, unless permission is given by the program coordinator. PTA-prefixed courses are limited to those students accepted in the program.

Career Opportunities

PTAs work in a variety of settings including hospitals, outpatient clinics, home health agencies, nursing homes, schools, sports facilities, fitness centers and industrial/occupational workplace environments. Job opportunities continue to grow as the medical field continues to promote outpatient medical services and the elderly population increases.

Average Starting Salary

Based on graduate feedback, the median income for PTAs with one to three years experience is between $47,000 and $52,000 annually, depending on the type and location of the health care facility.

Plumbing Technology

Dean: Dr. Travis Jumper, ext. 7457
email: Travis.Jumper@swic.edu

The Plumbing Program is designed to offer hands-on training and education to individuals seeking to enter the plumbing and pipefitting industry. With a focus on providing essential skills for both residential and commercial settings, the program equips students with the tools and knowledge to begin a successful career in plumbing, pipefitting, and related fields.

This program serves as a gateway to high-paying and high-skill jobs, particularly for high school graduates and displaced workers who are seeking stable employment with a relatively short training period. Additionally, the program provides an opportunity for individuals to gain related skills, such as pipefitting, that enhance their credentials for future job opportunities.

See the program coordinator, dean or an academic advisor for more information.

Plumbing Technology Certificate (085A)

			Semester Credits
PLT	101	Intro to Plumbing and OSHA Cert.	3
PLT	102	Plumbing Systems	3
PLT	103	Plumbing Systems and Installation I	3
PLT	104	Plumbing Systems and Installation II	3
PLT	105	Plumbing Services	3
GT	105	Technical Math	3
Total Semester Credits			**18**

Career Opportunities

Graduates can pursue careers in the following areas:

- **Plumbers, Pipefitters, and Steamfitters:** These professionals install, repair, and maintain piping systems in residential, commercial, and industrial settings. They also work with heating and cooling systems, as well as various water systems.
- **Septic Tank Servicers and Sewer Line Cleaners:** Workers in this field maintain and repair septic tanks, sewer systems, and drain lines, often performing tasks such as cleaning and clearing blockages in underground pipes.
- **Helpers: Pipefitters, Plumbers, and Pipe Layers:** Helpers assist plumbers and pipefitters by performing tasks such as cleaning work areas, assisting with pipe installation, and providing support during installation and repair projects.
- **General Maintenance and Repair Workers:** These workers perform routine maintenance on plumbing systems, including repairs to pipes, valves, and fixtures in both residential and commercial buildings.
- **Stationary Engineers and Boiler Operators:** These professionals operate and maintain boilers, engines, and other mechanical equipment that are often found in industrial plumbing systems.

Precision Machining Technology

swic.edu/pmt
Coordinator: David Berry, ext. 7314
email: David.Berry@swic.edu
Dean: Dr. Travis Jumper, ext. 7457
email: Travis.Jumper@swic.edu

The SWIC Precision Machining Technology program prepares the students with the skills and experience necessary to enter a variety of machining fields at an apprentice level. Students will learn to safely set-up and operate machine shop equipment such as lathes, mills, drill presses, grinders and computer numerical control machines. In addition, they will learn computer software programs to design parts and create programs used on the CNC machines.

See the program coordinator, dean or an academic advisor for more information.

Articulation Agreements

SIU-Carbondale:
- BS Industrial Management and Applied Engineering: Quality Management
- BS Industrial Management and Applied Engineering

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the Course Description Guide (yellow section) in this catalog.

Associate in Applied Science Degree (053H)

Program Requisite			Semester Credits
PMT	100	Precision Machining Introduction	0.5

First Year

Fall Semester			Semester Credits
PMT	101	Intro to the Machine Trades	3
PMT	102	Intermediate Machining	3
PMT	201	Advanced Machining	3
PMT	240	NIMS Certification	3
PMT	124	Metrology	2
IML	120	Mechanical Blueprint Reading I	2
ENG	101	Rhetoric and Composition I	3
Total Semester Credits			**19.5**

Spring Semester			Semester Credits
PMT	110	Introduction to CNC Operations	2
PMT	112	CNC Turning	2
PMT	111	CNC Milling	3
PMT	250	Multi-Axis CNC Programming	3
PMT	226	Geom Dim & Tolerancing (GD&T)	2
GT	105	Intro to Technical Mathemathics OR	3
MATH	112	College Algebra (4) OR higher level Math course	
PMT	202	Advanced Metrology	2
HES	152	First Aid-Medical Self Help	2
Total Semester Credits			**19**

Summer Semester			Semester Credits
IML	125	Industrial Maintenance Welding	3
PMT	114	Metallurgy I (Industrial)	2
Total Semester Credits			**5**

Second Year

Fall Semester			Semester Credits
PMT	221	Intro to Mastercam	3
PMT	222	Advanced Mastercam	3
PMT	262	Advanced Mastercam/Multi-Axis	3
Social Science Course (HIST 181)			3
Total Semester Credits			**12**

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Spring Semester			Semester Credits
PMT	231	Intro to SolidWorks	3
IML	119	Mechanical Systems	3
Communications Course (COMM 151)			3
Human Relations Course (SOC 153)			3
Total Semester Credits			**12**
Total Program Credits			**67.5**

Certificate Programs

Precision Machining Technology Certificate (054H)

Program Requisite			Semester Credits
PMT	100	Precision Machining Introduction	0.5

			Semester Credits
PMT	101	Intro to the Machine Trades	3
PMT	102	Intermediate Machining	3
PMT	201	Advanced Machining	3
PMT	240	NIMS Certification	3
IML	120	Mechanical Blueprint Reading I	2
GT	105	Intro to Technical Math OR	3
MATH	112	College Algebra (4) OR higher level math course	
PMT	110	Introduction to CNC Operations	2
PMT	112	CNC Turning	2
PMT	111	CNC Milling	3
PMT	226	Geom Dim & Tolerancing (GD&T)	2
PMT	221	Introduction to Mastercam	3
PMT	222	Advanced Mastercam	3
Total Credits			**32.5**

Career Opportunities

Demand for graduating students is steady and jobs for graduates can be found in a variety of businesses, especially those producing machinery parts for the automotive and aircraft manufacturing industries. A graduate of the Precision Machining Technology program is prepared to work as a(n):
- Toolmaker
- CNC operator
- CNC programmer
- General machinist
- Maintenance machinist
- Inspector
- CAD/CAM programmer

CNC Machining Certificate (054P)

Computer Numerical Control introduces students to programming, setting up and operating CNC machine tools, which include three-axis vertical mills and two-axis lathes. It also provides experience in setting work offsets and tool lengths and operating HAAS CNC equipment. These courses introduce the programming format needed to program finished machined parts on the equipment. The students will be required to complete finish parts using all the necessary codes that a CNC machine tool offers. The certificate will provide training for CNC operators, machinists and workers wanting to enhance their machining abilities.

Program Requisite			Semester Credits
PMT	100	Precision Machining Introduction	0.5

			Semester Credits
PMT	110	Introduction to CNC Operations	2
PMT	111	CNC Milling	3
PMT	112	CNC Turning	2
Total Credits			**7.5**

Mastercam Certificate (054L)

Computer Aided Drafting and Computer Aided Manufacturing are becoming necessary tools in many machine shops and manufacturing companies. Using Mastercam software, the students will learn to design and draw machine parts with the use of a computer. From the created drawing the students then will apply tool paths to create a CNC program to be run on a HAAS CNC machine tool. The students will be required to create completed machined parts using this process. The certificate will provide training for CNC operators, machinists and workers wanting to enhance their machining abilities.

Program Requisite			Semester Credits
PMT	100	Precision Machining Introduction	0.5

			Semester Credits
PMT	221	Intro to Mastercam	3
PMT	222	Advanced Mastercam	3
Total Credits			**6.5**

SolidWorks Certificate (054M)

Computer Aided Drafting is an important part in the manufacturing process. SolidWorks is a leading software package used by many manufactures. Students will use SolidWorks to create solid models of parts that will then be used to manufacture a finished part. The models will be used to create prints for the machining of the parts or to transfer to a CAD/CAM software for creating a CNC program. The certificate will provide training for many different skilled workers, machinists, draftsmen and designers.

			Semester Credits
PMT	231	Intro to SolidWorks	3
PMT	232	Advanced SolidWorks	3
Total Credits			**6**

Advanced CNC Programming Certificate (054R)

The Advanced CNC Programming Certificate gives the students the skills to operate and program multi-axis CNC machine tools, which includes multi-vise set-ups, four- and five-axis CNC milling centers and CNC turning centers with live tooling, Y-axis and bar feeding capabilities. Students will gain experience in setting up and programming these state of the art Advanced CNC machines. Mastercam CAD/CAM software will also be used for more advanced programming of these CNC machines. Courses are designed for the students to be given a print or solid model to create a part to be produced using all the advanced CNC machines. The certificate will provide training for CNC operators, CNC programmers, machinists and workers wanting to enhance their machining skills.

			Semester Credits
PMT	250	Multi-Axis CNC Programming	3
PMT	262	Advanced Mastercam/Multi-Axis	3
Total Credits			**6**

Advanced Automation/Multi-Axis CNC Certificate (055H)

This curriculum focuses on the integration of robots with multi-axis CNC machining that allows technicians and employers to become more productive using automated manufacturing practices. The courses that comprise the certificate are primarily hands-on and allows students to use equipment and software of the type and variety that many modern manufacturing facilities have adopted. Students will learn how to operate and manipulate robots while producing finished parts as they would in a manufacturing facility. Students will also practice virtual setups, fixturing and simultaneous multi-axis machining of complex parts. Current or former students and working technicians who desire to upgrade their skills to include robotic or automated manufacturing may enroll in the courses that lead to a certificate in Advanced Automation/Multi-Axis CNC Certificate.

			Semester Credits
PMT	268	Intro to Machining Automation	4
PMT	269	Advanced Machining Automation	4
PMT	285	Advanced Multi-Axis I	4
PMT	286	Advanced Multi-Axis II	4
Total Credits			**16**

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Tool & Die/Mold Certificate (056H)

The Tool and Die/Mold Making certificate program at Southwester Illinois College prepares students with technical knowledge and training in, manufacturing processes, and tooling requirements. The certificate is in addition to the Associates degree in Prescision Machining. In the Tool and Die classes at SWIC, students will take courses in Die Making principles, metallurgy, selection of tool steels and various manufacturin processes, with emphasis on stamping, forming, and drawing of sheet metal. Students will produce a basic single hit stamping die and a progressive die to produce a finished part to tolerances specified. The Mold Making part of the program prepares students with knowledge and hands on training in, molding processes, mold design and requirements and how they affect the final product. Students will take courses in Mold Making principles, the study of design and fabricaton of plastic, die cast, and rubber molds for production of finished products. Included are units of instruction in the flow characteristics of thermoset thermosplastics and die cast materials and their properties. Students will produce a basic injection mold to produce a finished part to tolerances specified.

			Semester Credits
PMT	270	Introduction to Mold Making	4
PMT	272	Intro to Tool & Die Making	4
PMT	274	Advanced Mold Making	4
PMT	276	Advanced Tool & Die Making	4
Total Credits			**16**

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Additive Manufacturing Certificate (058H)

The Additive Manufacturing Certificate will augment students' learning by couplng theory-based instruction wtih hands-on applications using State of the Art software. The software includes, but is not limited to, SOLIDWORKS, and Mastercam. The student will practice 3D printing techniques with hands-on a large polymer, resin, and Metal AM systems. Students will obtain the skills by taking classes in innovation design, formal engineering design process, advanced critical thinking, project management GD & T option, reverse engineering, 3D modeling, printing and scanning, and converting point cloud data to solids and inspections. Gradueates will be qualified to seek positions in the following fields: Additive Manufacturing Technician, 3D Printing Operator, 3D Designer, 3D Solid Modeler, Manufacturing Technician, Prototyping Technician, Production Technician, Reverse Engineering Technician, SOLIDWORKS Designer, CAD Technician, Part Inspection Technician CAD/3D Design Drafter, Detailer, Engineering Design Drafter, Engineering Drawing Checker, and Instructor. Along with the Precision Machining degree this advanced certificate will put students in a good position for high paying, in demand careers.

			Semester Credits
PMT	124	Metrology	2
PMT	202	Advanced Metrology	2
PMT	221	Intro to Mastercam	3
PMT	222	Advanced Mastercam	3
PMT	231	Intro to SolidWorks	3
PMT	232	Advanced SolidWorks	3
PMT	234	3D Printing and Design	4
Total Credits			**20**

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Career Opportunities

Demand for graduating students is steady and jobs for graduates can be found in a variety of businesses, especially those producing machinery parts for the automotive and aircraft manufacturing industries. A graduate of the Precision Machining Technology program is prepared to work as a(n):

- Toolmaker
- CNC operator
- CNC programmer
- General machinist
- Maintenance machinist
- Inspector
- CAD/CAM programmer

In addition, all manufacturing businesses such as steel, chemical, oil, food and beverage need the services of skilled machinists. Many small machine shopes that supply services to larger companies hire Precision Machining Technology graduates.

Radiologic Technology

swic.edu/rad-tech

Coordinator: Casie Dugan, ext. 5303
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu
Administrative Assistant: Candice Rodgers, ext. 5355

Articulation Agreements

SIU-Carbondale:

- BS Radiologic Sciences – Diagnostic Medical Sonography
- BS Radiologic Sciences – Education & Management
- BS Radiologic Sciences – MRI/CT
- BS Radiologic Sciences – Radiation Therapy
- BS Radiologic Sciences – Interventional

Career Overview:

The SWIC Radiologic Technology program prepares students to safely and effectively use radiographic equipment to produce x-rays for the purpose of diagnosing and treating illnesses and injuries. Radiologic technologists have a high level of patient contact. Radiologic technologists provide vital information concerning structure and function of the human body, enabling physicians to make accurate diagnoses to pursue care and treatment. Radiologic technology encompasses a variety of specialties and plays an invaluable role in the practice of medicine. Radiologic technologists play a key role in the total spectrum of medical imaging of health care services. For further information regarding the field of radiology, refer to the American Society of Radiologic Technologists website at www.asrt.org or the Illinois State Society of Radiologic Technologists website at www.issrt.org/.

About the Program

- Two-year Associate in Applied Science degree
- Selective admission for summer semester start
- Applications are accepted Sept. 1 to Dec. 1
- Completion of biology, chemistry/physics and algebra in high school or college are required to apply
- Deadline for application documentation is Feb. 1
- Online application available in the eSTORM Student Center.

Licensure Requirements

Upon successful completion of the RT curriculum, graduates are awarded an Associate in Applied Science degree and are eligible to take the national examination for the American Registry of Radiologic Technologists.

Individuals applying to take the American Registry of Radiologic Technology certification exam may need to complete a Pre-Application Review to determine ethics eligibility. State agencies governing the practice of radiographers may deny an individual licensure, even if the individual has completed all coursework and graduated from the program, if the individual has a criminal history, has been convicted, or pleads guilty or nolo contendere to a felony or other serious crime.

Program Accreditation

The SWIC Radiologic Technology program is accredited by the Joint Review Committee on Education in Radiologic Technology, located at 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182; phone 312-704-5300, email: mail@jrcert.org. The program's curriculum is guided by the standards developed by the ASRT. The accreditation status means SWIC has met the standards required and helps to assure the public that the curriculum will graduate competent clinicians.

Admission Procedures/ Application Requirements

The admission procedures for the RT program are in accordance with Illinois law. The law requires that programs not having sufficient space and resources to accommodate all applicants will accept those applicants best qualified, using rank, ability and achievement test scores as guides, with preference given to students residing in the district. Out-of-district students will be considered as in-district status for this application process if their community college has an Interdistrict Cooperative/ Career agreement with SWIC (listed in the front of this catalog). To qualify for the application process, students must submit paperwork from their local community college to SWIC Enrollment Services by the application deadline. Contact the secretary of the Board of Trustees at your community college to get the required paperwork. Students must apply and be formally accepted into the Radiologic Technology program before enrolling in RT-prefixed courses. There are no waiting lists for admission to any Health Sciences program. If not admitted, interested applicants must re-apply the following year. **Refer to the RT Application Planning Guide for specific application requirements and to enhance your potential for admission to this highly competitive application process. Application Planning Guides are located on the Radiologic Technology webpage.**

Selection of Applicants for Admission

Selection of qualified applicants for the Radiologic Technology program will be based upon a numerical ranking procedure, using ACT scores or SWIC GPA, high school and/or college grades and the percentage of those general education courses required for graduation completed prior to admission with a grade of B or better. **Applicants should be aware that general education courses completed in the Spring Semester preceding potential summer entry may not be calculated in the numerical ranking.** To obtain more information on the entrance requirements for the Radiologic Technology program, call or visit an academic advisor, Belleville Campus, 2500 Carlyle Ave., 618-235-2700, ext. 5206; the Red Bud Campus, 500 W. South Fourth St., 618-282-6682, ext. 8114; or the Sam Wolf Granite City Campus, 4950 Maryville Road, 618-931-0600, ext. 7333.

Applicants will be notified of their status regarding admission as quickly as is possible given the number of applications received (typically by March). In the event that there are fewer qualified candidates than there are spaces available, applications will continue to be accepted until the program's maximum capacity has been reached or until the first week of classes during the summer semester. Check swic.edu or contact Enrollment Services at 618-235-2700, ext. 5455, to obtain information of a possible applications deadline extension. The college reserves the right to fill the program in those years when there are fewer applicants than spaces available by whatever means it deems necessary to assure both academic integrity and fairness in the selection process.

In the event that there are more qualified applicants than spaces available in this program, those applicants who reside outside District No. 522 or in a district without a

joint agreement for this program **will not be eligible for consideration or admission**. Resident status is determined by the address on file with Enrollment Services by Feb. 1.

Program Capacity
The Radiologic Technology program generally accepts 50 students each summer semester.

Program Location
The Radiologic Technology program consists of general education courses, RT-prefix courses and assigned clinical experience courses. Specific locations depend on the course type.

1. The general education courses can be taken at the Belleville, Red Bud or Sam Wolf Granite City campuses and can be completed prior to admission.
2. The RT courses are only offered at the Belleville Campus during the day of the semesters indicated on the degree outline. Enrollment in RT courses requires admission into the program.
3. Clinical experience is completed during the day at hospitals/clinics located throughout southern Illinois and in the St. Louis region. Students may be required to travel outside the college district for clinical experience courses. Students will be required to complete some (approximately five) evening assignments during the second year. Specific clinical placement cannot be guaranteed.

Applicants should check location and schedule of classes to ensure availability and access. Students are responsible for their own transportation and attendance at any of the classes and clinicals assigned by the program.

Orientation & Performance
Applicants accepted into this program must attend all required orientation sessions and be able to perform the essential functions of the job with or without reasonable accommodations. The essential functions can be found at swic.edu/rt-performance-essentials.

Applicants or enrolled students are encouraged to contact the Student Accessibility & Support Services at 618-235-2700, ext. 5368, to discuss potential issues associated with meeting these requirements.

Health Insurance
Health insurance is required during clinical education courses. Students are personally responsible for any costs incurred for injuries occurring during their clinical experience courses.

Medical/Health Requirements
RT students will be required to possess current CPR certification at the Health Care Provider level, show proof of immunizations, tuberculosis test, physical examination and health insurance coverage before beginning any clinical experience course. These requirements do not have to be fulfilled prior to admission and are further explained at the program orientation meeting.

Background Checks and Drug Testing
Criminal background check, random drug test and name search on government registries which prohibit employment in health care professions are required in our health science programs. Program start is contingent upon meeting deadlines for completion of the screening and results which allow the student to participate in the clinical portion of the program.

Details and directions for accessing and purchasing online screening for background checks are shared with accepted students. Background checks are conducted for every state in which the student has worked or resided since the age of 18 years. Conviction of offenses in the following areas normally prohibit the student from participation in the clinical portion of the program and will result in program dismissal: assault, sexual offenses, murder, burglary, arson, and robbery. Refer to the Health Care Worker Background Check Act for a complete list of offenses at www.idph.state.il.us/nar/.

To participate in the clinical portion of the program, required clinical sites will be surveyed to determine if clinical placement can be accomplished for students with "disqualifying" offense(s). If the survey results indicate clinical sites prohibit the conviction, the student will be removed from the program.

In addition, positive results from the drug test or student listing on prohibitory government registry will also result in dismissal from the program. Note: Positive drug testing results from the use of illegal drugs or prescription medication which the student does not have a prescription. Marijuana, recreational or medical is a positive drug testing result. Dismissal for positive criminal background check, drug test, or listing on a government registry does not qualify students for refund of tuition or lab fees. Students who have concerns regarding their status with the above regulations are encouraged to discuss the matter with the program coordinator prior to seeking admission.

Graduation Requirements
Applicants admitted to the program must follow the requirements for graduation at the time they are admitted and must meet all course, program, degree and sequencing requirements specified. Students are responsible for program policies as listed in each year's RT Student Handbook. Students who fail to meet program specific requirements will be dropped from the program and may be required to reapply and compete for admission in the succeeding year. A grade of C or better is required for all courses in the degree.

All students completing an AAS degree must have completed graduation degree requirements in the front section of the blue pages of this catalog as well as the requirements specified for Human Relations coursework. Health requirements are satisfied by students successfully completing BIOL 105, PSYC 151 and this Health Sciences curriculum.

Course Sequence
The program can be completed in four semesters and two summer; however, it is recommended that students who wish to maximize points on the application complete General Education Courses (HRO 100, BIOL 105, ENG 101, PSYC 151, COMM 151/155 and human relations course) prior to entrance into the program and follow the appropriate course requisites. For information on course requisites, please refer to the Course Description Guide (yellow section) in this catalog. All RT-prefix courses must be completed during the listed semesters, unless permission is given by the program coordinator.

Associate in Applied Science Degree (0028)

First Year

Summer Semester			**Semester Credits**
RT	100	Radiologic Technology I	2.5
RT	101	Radiographic Positioning I	3.5
RT	102	RT Math Computations	1
HRO	100	Medical Terminology	1
Total Semester Credits			**8**

Fall Semester			**Semester Credits**
BIOL	105	Human Biology**	4
RT	110	Radiologic Technology II	3
RT	111	Radiographic Positioning II	4
RT	112	Clinical Experience I	3
RT	131	X-ray Physics I	4
Total Semester Credits			**18**

Spring Semester			**Semester Credits**
ENG	101	Rhetoric & Composition I	3
RT	150	Radiologic Technology III	3
RT	151	Radiographic Positioning III	4
RT	152	Clinical Experience II	3
RT	180	X-ray Physics II	4
Total Semester Credits			**17**

Second Year

Summer Semester			**Semester Credits**
RT	160	Clinical Experience III	3
Total Semester Credits			**3**

Fall Semester			**Semester Credits**
PSYC	151	General Psychology	3
RT	230	Pathology for Radiographers***	1
RT	241	Clinical Experience IV	3
RT	242	Clinical Modalities I	1
RT	244	Radiobiology	4
Total Semester Credits			**12**

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Spring Semester			**Semester Credits**
COMM	151	Fundamentals of Public Speaking **OR**	3
COMM	155	Interpersonal Communication	
RT	297	Radiologic Technology Review	4
RT	296	IT for Radiographers***	1
RT	298	Clinical Modalities II	1
RT	299	Clinical Experience V	3
Human Relations Elective*			3
Total Semester Credits			**15**

Total Program Credits 73

*See beginning blue AAS degree pages for listing of all Human Relations course options.

**BIOL 105 can be replaced by BIOL 157/158.
***Distance education course

Career Opportunities
RTs work in a variety of settings including hospitals, health care facilities, oncology centers and physicians' offices. Job opportunities continue to grow as the medical field continues to promote outpatient medical services and the elderly population increases.

Average Starting Salary
Based on graduate feedback, the average salary is 50,000-$55,000, depending on the type and location of the health care facility. The Bureau of Labor Statistics report a median annual salary of $73,410 in May 2023.

Certificate Programs
To enroll in these certificate programs, students must have completed at a minimum the AAS in Radiologic Technology. Licensed and/or registered radiologic technologists, radiation therapists, or nuclear medicine technologists (ARRT or NMTCB registered) would also meet prerequisites for this career ladder opportunity.

Computed Tomography Certificate (028A)
This one semester program prepares post-graduate registered radiologic technologists, radiation therapists, or nuclear medicine technologies (ARRT or NMTCB registered) to produce cross-sectional anatomical images of the human body for diagnostic testing, radiation therapy treatment planning, and nuclear medicine PET scanning. The program consists of two hybrid (combination of online and face-to-face) didactic courses and clinical experience. The Computed Tomography certificate is designed to prepare graduates for the ARRT Advanced Registry in Computed Tomography. The program meets ARRT clinical competency and CT registry specifications. Registered radiologic technologists cross trained in computed tomography and with ability to attain the 125 CT exam requirements may be exempt for the clinical component of the program with the appropriate documentation and permission of the program coordinator.

RT	261	CT Anatomy & Patient Care (first 8 weeks)	2.5
RT	262	CT Experience: Internship (120 hours)	1.5
RT	263	CT Physics & Procedures (second 8 weeks)	2.5
Total Credits			**6.5**

Magnetic Resonance Imaging Certificate 028E
This one semester program prepares post-graduate registered radiologic technologists, radiation therapists, or nuclear medicine technologists (ARRT or NMTCB registered) to produce cross-sectional anatomical images of the human body for diagnostic imaging. The program consists of two hybrid (combination of online and face-to-face) didactic courses and an optional clinical experience. The MRI certificate is designed to prepare graduates for the ARRT Advanced Registry in Magnetic Resonance Imaging. The program meets ARRT clinical competency and MRI registry specifications. Registered radiologic technologists cross trained in MRI and with the ability to attain the 125 MRI exam requirements may be exempt from the clinical component of the program with the appropriate documentation and permission of the program coordinator.

RT	291	MRI Patient Care & Procedures (first 8 weeks)	2.5
RT	292	MRI Clinical Internship	3.0
RT	293	MRI Safety & Image Production (second 8 weeks)	2.5
Total Credits			**8**

Respiratory Care

swic.edu/respiratory-care

Coordinator: Elizabeth Repp ext. 5916
Email: Elizabeth.Repp@swic.edu
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu
Administrative Assistant: Candice Rodgers, ext. 5355

Articulation Agreements

- McKendree University – BA Healthcare Management
- University of Kansas Medical Center – BS Respiratory Care

Career Overview

The SWIC Respiratory Care program prepares students for entry-level practitioner positions in the respiratory care profession. Respiratory therapists have a high level of patient contact. Respiratory therapists, under the supervision of a physician, see patients of all ages to assist in the prevention, treatment and rehabilitation of pulmonary problems. The practice of respiratory care entails: monitoring, evaluating and reporting patients' cardiopulmonary status; providing treatments to keep the airway open; conducting sleep studies, pulmonary function studies, and metabolic studies, patient and family education, student clinical education and home care; discharge planning and follow up; as well as outpatient pulmonary rehabilitation.

For further information regarding the field of respiratory care, refer to the American Association for Respiratory Care website at www.aarc.org. Contact the program coordinator, coordinators' assistant or an academic advisor for more information.

About the Program

- Two-year Associate in Applied Science degree
- Selective admission for summer semester start
- Applications accepted Sept. 1 to May 20
- Completion of biology, chemistry, and algebra in high school or college is required to apply
- Deadline for application documentation is May 20
- Online application available in the eSTORM Student Center

Licensure Requirements

Upon successful completion of the RC curriculum, graduates are awarded an Associate in Applied Science degree in Respiratory Care and are qualified to attempt the National Board for Respiratory Care examinations. Scores on these examinations impact the graduates ability to attain a license to practice as a Respiratory Therapist and identify the level of care the RT can provide through credentialing. Potential credentials include: Certified Respiratory Therapist or Registered Respiratory Therapist. The first step in the examination/credentialing process is completion of the Therapist Multiple-Choice Exam. This exam assesses the essential knowledge, skills and abilities of the graduate. There are two established cut scores for the TMCE. If a candidate achieves the lower cut score, they will earn the CRT credential, identifying they have entry-level RT knowledge, skills and abilities. If the candidate achieves the higher cut score, they will earn the CRT credential and are eligible to complete the Clinical Simulation Examination (provided they meet all other eligibility requirements). Successful completion of the Clinical Simulation Examination earns the candidate the RRT credential. Supervisory positions and intensive care specialties typically require the RRT, which is advanced RC knowledge, skills and abilities. Credentials are used as the basis for the licensure in all 49 states that regulate the practice of respiratory care. All states, excluding Alaska, require a respiratory therapist to be licensed.

Program Accreditation

The SWIC Respiratory Care program, CoARC Program Number 200489, is accredited by the Commission on Accreditation for Respiratory Care, website: www.coarc.com. The program's curriculum is guided by the standards developed by CoARC. The accreditation status means SWIC has met the standards required and helps to assure the public that the curriculum will graduate competent clinicians. It also ensures that the college's RC graduates are qualified to take the National Board for Respiratory Care's certification and registry examinations.

Admission Procedures/ Application Requirements

The admission procedures for the RC program are in accordance with Illinois law. The law requires that programs not having sufficient space and resources to accommodate all applicants will accept those applicants best qualified, using rank, ability and achievement test scores as guides, with preference given to students residing in the district. Out-of-district students will be considered as in-district status for this application process if their community college has an Interdistrict Cooperative/Career agreement with SWIC. To qualify for the application process, students must submit paperwork from their local community college to SWIC Enrollment Services by the application deadline. Contact the secretary of the Board of Trustees at your community college to get the required paperwork.

Students must apply and be formally accepted into the Respiratory Care program before enrolling in RC-prefix courses. There are no waiting lists for admission to any Health Sciences program. If not admitted, interested applicants must re-apply the following year. **Refer to the RC Application Planning Guide for specific application requirements and to enhance your potential for admission to this competitive application process. Application Planning Guides are located on the Respiratory Care webpage .**

Selection of Applicants for Admission:

Selection of qualified applicants for the Respiratory Care program will be based upon a numerical ranking procedure, using ACT scores or SWIC GPA, high school and/or college grades and the percentage of those general education courses required for graduation completed prior to admission with a grade of B or better. To obtain more information on the entrance requirements for the Respiratory Care program, call or visit an academic advisor, Belleville Campus, 2500 Carlyle Ave., 618-235-2700, ext. 5206; the Red Bud Campus, 500 W. South Fourth St., 618-282-6682, ext. 8114; or the Sam Wolf Granite City Campus, 4950 Maryville Road, 618-931-0600, ext. 7333.

Applicants will be notified of their status regarding admission as quickly as is possible given the number of applications received. In the event that there are fewer qualified candidates than there

are spaces available, applications will continue to be accepted until the program's maximum capacity has been reached or until the first week of classes during the fall semester. Contact Enrollment Services at 618-235-2700, ext. 5554, to obtain information of a possible application deadline extension. The college reserves the right to fill the program in those years when there are fewer applicants than spaces available by whatever means it deems necessary to assure both academic integrity and fairness in the selection process.

In the event that there are more qualified applicants than spaces available in this program, those applicants who reside outside District No. 522 or in a district without a joint agreement for this program, will not be eligible for consideration or admission. Resident status is determined by address on file with Enrollment Services by May 20.

Program Capacity

The Respiratory Care program generally accepts 30 students each fall semester.

Program Location

The Respiratory Care program consists of general education courses, RC-prefix courses and assigned clinical practice courses. Specific locations depend on the course type.

1. The General Education Courses can be taken at the Belleville, Red Bud or Sam Wolf Granite City campuses and can be completed prior to admission.
2. The RC courses are offered only at the Belleville Campus during the day of the semesters indicated on the degree outline after acceptance into program or with program coordinator permission. Most RC courses are web-enhanced, therefore computer access is required.
3. Clinical practice may be scheduled during the day, evening, night, or weekend shift at RC employment settings throughout southern Illinois and in the St. Louis region. Students may be required to travel outside the college district for clinical experience courses. Specific clinical placement cannot be guaranteed.

Applicants should check location and schedule of classes to ensure availability and access. Students are responsible for their own transportation and attendance at any of the classes and clinicals assigned by the program.

Time Commitment

First-year students (fall, spring and summer semesters)

- Clinical practice on Tuesday, Wednesday and/or Friday (8-hour shift)
- Class/Lab on Monday and Thursday (8-hour day)
- Class/Lab on Wednesday (4-hour day fall semester only)

Second-year students (fall and spring semesters)

- Clinical practice on Monday, Wednesday and/or Thursday (8-hour shift)
- Class/Lab on Tuesday and Friday (8-hour day)

Orientation & Performance

Applicants accepted into this program must attend all required orientation sessions and be able to perform the essential functions of the job with or without reasonable accommodations. Applicants or enrolled students are encouraged to contact the Student Accessibility & Support Services at 618-235-2700, ext. 5368, to discuss potential issues associated with meeting these requirements.

Health Insurance

Health insurance is required during clinical practice courses. Students are personally responsible for any costs incurred for injuries occurring during their clinical practice.

Medical/Health Requirements

RC students will be required to possess current BLS certification and show proof of immunizations, tuberculosis test, physical examination and health insurance coverage before beginning any clinical practice course. These requirements may not have to be fulfilled prior to admission and are further explained at the program orientation meeting.

Background Checks and Drug Testing

Criminal background check, random drug test and name search on government registries which prohibit employment in health care professions are required in our health science programs. Program start is contingent upon meeting deadlines for completion of the screening and results which allow the student to participate in the clinical portion of the program. Details and directions for accessing and purchasing online screening for background checks are shared with accepted students. Background checks are conducted for every state in which the student has worked or resided since the age of 18 years. Conviction of offenses in the following areas normally prohibit the student from participation in the clinical portion of the program and will result in program dismissal: assault, sexual offenses, murder, burglary, arson, and robbery. Refer to the Health Care Worker Background Check Act for a complete list of offenses at the Illinois Department of Public Health website.

To participate in the clinical portion of the program, required clinical sites will be surveyed to determine if clinical placement can be accomplished for students with "disqualifying" offense(s). If the survey results indicate clinical sites prohibit the conviction, the student will be removed from the program.

In addition, positive results from the drug test or student listing on prohibitory government registry will also result in dismissal from the program. Note: Positive drug testing results from the use of illegal drugs or prescription medication which the student does not have a prescription. Marijuana, recreational or medical is a positive drug testing result.

Dismissal for positive criminal background check, drug test, or listing on a government registry does not qualify students for refund of tuition or lab fees. Students who have concerns regarding their status with the above regulations are encouraged to discuss the matter with the program coordinator prior to seeking admission.

Graduation Requirements

Applicants admitted to the program must follow the requirements for graduation at the time they are admitted and must meet all course, program, degree and sequencing requirements specified. Students are responsible for program policies as listed in each year's RC Student Handbook. Students who fail to meet program specific requirements will be dropped from the program and may be required to re-apply and compete for admission in the succeeding semester. A grade of C or better is required for all courses in the degree.

All students completing an AAS degree must complete graduation degree requirements in the front section of the blue pages of this catalog as well as the requirements specified for Human Relations coursework. Health requirements are satisfied by students successfully completing BIOL 105, PSYC 151 and this Health Sciences curriculum.

Course Sequence

The program can be completed in four semesters and two summers; however, it is recommended that students who wish to maximize points on the application complete General Education Courses (HRO 100, BIOL 105, ENG 101, SOC 153, ENG 102/COMM 151, PSYC 151) prior to entrance into the program and in progression following the appropriate course requisites. For information on course requisites, please refer to the *Course Description Guide* (yellow section) in this catalog. All RC-prefix courses must be completed before or during the listed semesters, unless permission is given by the program coordinator.

Associate in Applied Science Degree (020A)

First Year

Summer Semester			**Semester Credits**
HRO	100	Medical Terminology*	1
BIOL	105	Human Biology*	4
Total Semester Credits			**5**

Fall Semester			**Semester Credits**
ENG	101	Rhetoric & Composition I*	3
RC	102	Cardiopulmonary Anatomy and Physiology**	3
RC	103	Applied Science**	3
RC	104	Respiratory Care Practices and Procedures I	5
RC	105	Patient Assessment	3
Total Semester Credits			**17**

Spring Semester			**Semester Credits**
RC	110	Cardiopulmonary Pathology**	3
RC	111	Respiratory Care Pharmacology**	3
RC	112	Adult Airway and Ventilators	5
RC	113	Clinical Practice I	4
Human Relations Elective			3
Total Semester Credits			**18**

Summer Semester			**Semester Credits**
RC	114	Ped & Neonatal RC	2.5
RC	115	Clinical Practice II	2
Total Semester Credits			**4.5**

Second Year

Fall Semester			**Semester Credits**
ENG	102	Rhetoric and Composition II* **OR**	3
COMM	151	Fundamentals of Public Speaking*	
RC	203	Adult Critical Care	5
RC	204	Clinical Practice III	4
Total Semester Credits			**12**

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Spring Semester			**Semester Credits**
PSYC	151	General Psychology*	3
RC	205	Hemodynamics & RC Specialties	3
RC	206	Clinical Practice IV	4
RC	207	Respiratory Care in Review	4.5
Total Semester Credits			**14.5**

Total Program Credits	**71**

*Students are encouraged to complete as many of these courses as possible before beginning the Respiratory Care coursework. BIOL 105 and HRO 100 must be completed by the end of the Summer 2024 Semester to be eligible for RC 104 in the Fall 2024 Semester. BIOL 157 & 158 can replace BIOL 105.

**Depending on space availability, these courses may be taken prior to program admission by applicants who make the alternate list. Coordinator permission is required. This allows the student the flexibility to complete as much coursework before beginning actual clinical rotations in health care facilities. Completion of RC 102, RC 103, RC 110, and RC 111 does not guarantee RC program admission. Students must still apply to the program for admission the following year. See RC program planning guides for details.

Career Opportunities

Respiratory therapists work in a variety of settings, including hospitals, clinics, skilled care facilities, physicians' offices, home health care agencies and medical product companies. Job opportunities for respiratory therapists are excellent, especially for therapists with experience working with infants

Average Starting Salary

The Human Resources Study from the American Association for Respiratory Care indicated that mean annual salary for respiratory therapists was $62,000, beginning salaries were $42,078-$47,297. According to results from the 2020 American Association for Respiratory Care (AARC) human resource survey, the typical respondent to the survey earned an hourly base (before differentials for evening and night shifts, weekends, holidays, and on-call) wage of $33.56.

Sign Language Studies: Interpreter

swic.edu/sls

Coordinator/Faculty: Susen McBeth, ext. 5799
Email: Susen.Mcbeth@swic.edu
Dean: Kristen Ruppert, Ed.D., ext. 5013
Email: Kristen.Ruppert@swic.edu

The SWIC Sign Language Studies Program prepares students to work as interpreters for the Deaf or hard of hearing community. While the foundation of the curriculum is a commitment to American Sign Language, interpreters must be able to adjust to a broad range of consumer preferences to communicate effectively. They must understand the cultures in which they work and apply that knowledge to promote effective cross-cultural communications. Graduates will recognize and adapt to the variation in language usage that exists within the deaf and non-deaf community to clearly relay concepts and ideas between the two languages. Successful interpreters are flexible, outgoing and feel comfortable in front of a group. They also relate effectively to the public and have a command of the English language. For further information regarding the field of Sign Language Interpreting, refer to the Registry of Interpreters for the Deaf website at www.rid.org.

Upon successful completion of the SLS degree program, graduates are awarded an Associate in Applied Science degree in Sign Language Studies/Interpreter and are prepared for entry-level, paraprofessional interpreting positions. The National Association of the Deaf and the Registry of Interpreters for the Deaf jointly offer national examinations at various sites in the state and country for general sign language interpreters. In order to take the national examination, a bachelor's degree or 120 credit hours is required. For those preferring to take the state examination and/or Education Interpreter Performance Assessment, the AAS degree is sufficient. The SLS curriculum prepares graduates for this written and performance-based examination.

Additionally, the college offers another program track designed for individuals who want to be able to communicate informally with people who are deaf or hard of hearing. The SWIC Sign Language Studies/Basic Communication Certificate program is designed for those who want general information and skills in basic sign language communication. These skills may enhance their current employment, as well as provide accessibility to colleagues who are deaf or hard of hearing.

Contact the program coordinator or an academic advisor for more information about enrolling in the program.

About the Degree Program

This is a 67-semester-credit, two-year degree program, which can be completed in four semesters. The curriculum includes communication, social science, SLS interpreting technical courses and assigned field experiences/practicum. There are 15 semester credits of General Education Courses and 52 semester credits of Sign Language Studies/Interpreter courses. Courses are offered in the day or evening. Certain courses are only offered once a year, therefore it is highly recommended that students meet with the program coordinator to develop a schedule for completing the degree requirements in the proper sequence.

Students will be required to travel outside of the college district for field experience/practicum courses. Additionally, in SLS 101, 102, 105 and 203 there are some required assignments off campus to allow students to observe and converse with deaf and hard of hearing individuals using American Sign Language. Students may be required to have a criminal background check and/or drug testing depending on the setting (educational/government institutions) when enrolled in SLS 206, SLS 230 and/or SLS 290.

Enrollment Procedures

The SWIC Sign Language Studies certificate and degree programs are open to any student who is a high school graduate, earned a high school diploma certificate, or is transferring from an accredited college or university. To enroll, students must: Complete a SWIC New Student Information Form and registration form to enroll in classes.

General Information

A. Students who want to be interpreters must be able to perform the essential functions of the job with or without reasonable accommodations. The essential functions of the job are listed at swic.edu/sls. Students are encouraged to contact the Student Accessibility & Support Services at 618-235-2700, ext. 5368, to discuss potential issues associated with meeting these requirements.
B. To develop proficiency in signing and interpreting time, dedication, study, and immersion in the Deaf/hard of hearing community and constant practice are required. The level of skill students attain is directly related to their participation/practice.
C. The program is offered at the Belleville Campus for SLS courses with field experience and practicums at facilities in the Metro East and St. Louis region; required general education courses can be taken at the Belleville, Red Bud or Sam Wolf Granite City campuses.
D. Students should check the location and schedule of classes to ensure their own availability and access. Students are responsible for their own transportation and attendance at any of the classes and field experience/practicum assigned by the program.
E. Enrolled students must follow the requirements for graduation at the time they are admitted and must meet all course, program, degree and sequencing requirements as specified. Students who fail to meet program-specific requirements will be dropped from the program.
F. A grade of C or better is required for all SLS courses and ENG 101.
G. Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0024)

First Year			
Fall Semester			**Semester Credits**
SLS	100	Non-Verbal Communications	2
SLS	101	American Sign Language I (Fall Only)	5
SLS	110	Deaf Studies/Culture	3
SLS	125	ASL Fingerspelling & Numbers	1
ENG	101	Rhetoric & Composition I	3
COMM	151	Fundamentals of Public Speaking	3
Total Semester Credits			**17**

Spring Semester			**Semester Credits**
SLS	102	American Sign Language II (Spring Only)	5
SLS	105	Field Experiences (Spring Only)	2
SLS	120	ASL Linguistics I (Spring Only)	3
SOC	153	Introductory Sociology	3
General Education Elective**			4
Total Semester Credits			**17**

Second Year			
Fall Semester			**Semester Credits**
SLS	203	American Sign Language III (Fall Only)	4
SLS	205	Interpreting I (Fall Only)	3
SLS	206	Interpreter Principles and Practices (Fall Only)	3
SLS	210	ASL Linguistics II (Fall Only)	3
SLS	255	Transliterating (Fall Only)	3
Total Semester Credits			**16**

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Spring Semester			**Semester Credits**
SLS	220	Interpreting II (Spring Only)	3
SLS	230	Interpreting Practicum (Spring Only)	3
SLS	225	ASL to English Interpreting (Spring Only)	3
SLS	270	Educational & Specialized Interpreter Settings (Spring Only)	3
SLS	280	Platform Interpreting (Spring Only)	3
Human Well-Being Elective			2
Total Semester Credits			**17**

Total Program Credits	**67**

**See beginning AAS degree (blue) pages for listing of all Social Science and Human Well-Being options.

Sign Language/Basic Communication Certificate (024A)

This certificate provides a basic communication proficiency in sign language. This is **NOT** a professional certification that is eligible for a license to work as a certified interpreter.

First Year			
Fall Semester			**Semester Credits**
ENG	101	Rhetoric & Composition I	3
SLS	100	Non-Verbal Communications	2
SLS	101	American Sign Language I (Fall Only)	5
SLS	110	Deaf Studies/Culture	3
SLS	125	ASL Fingerspelling & Numbers	1
Total Semester Credits			**14**

Spring Semester			**Semester Credits**
SLS	102	American Sign Language II (Spring Only)	5
SLS	105	Field Experiences (Spring Only)	2
Total Semester Credits			**7**

Total Program Credits	**21**

Career Opportunities

Sign language interpreting is a rapidly expanding field. Interpreters may work for an agency or be self-employed. Schools, government agencies, hospitals, court systems and private businesses employ interpreters. Interpreters work in a variety of settings including medical, legal, religious, mental health, rehabilitation, performing arts and business. The setting in which an interpreter may work is based on the skill level attained on the national certification exam and/or state regulations regarding practice as an interpreter. For individuals who desire additional practice/preparation for the interpreter certification examination, enrollment in SLS 290 Advanced Practicum is recommended.

Average Starting Salary:

Per graduate feedback, interpreters earn between $30 and $60 per hour. Wages vary on the type, location and the day/evening rates of the interpreting assignment. Special interpreting assignments requiring special skills such as conference or platform interpreting or performances may negotiate a higher contract rate.

Surgical Technology

swic.edu/mst

Coordinator/Faculty: Tamara Santarelli, ext. 7326
Email: Tamara.Santarelli@swic.edu
Dean: Curt Schmittling, ext. 5351
Email: Curt.Schmittling@swic.edu
Administrative Assistant: Candice Rodgers, ext. 5355

Career Overview

The SWIC Surgical Technology program prepares students to gain theoretical knowledge and develop skills necessary to become a certified surgical technologist. Surgical technologists prepare surgical supplies and equipment, maintain aseptic and sterile conditions and assist the surgical team in peri-operative settings. Surgical technologists can gain employment in hospital, outpatient, and/or privately-owned surgical departments along with organ procurement centers and central supply processing units. For further informaiton regarding the Surgical Technology field, please go to the Occupational Outlook Handbook at: https://www.bls.gov/ooh/healthcare/surgical-technologists.htm

- Five-semester Associates of Applied Science degree (AAS)
- Selective admission for program acceptance
- Offered Spring semester
- Enrolled in October for Spring classes
- To enroll, recommended completion of the following high school coursework to prepare for a health science occupation: Four years in English, algebra and geometry, biology, and social science courses.

The program is designed to include classroom eduation, laboratory/simulation, and clinical experience in a healthcare setting.

Degree Requirements

Upon successful completion of the Surgical Technology curriculum, graduates are awarded an Associate of Applied Science (AAS) degree. Graduates of the Surgical Technology curriculum are eligible to tak ethe national board exam offered by the National Board of Surgical Technology and surgical Assisting (NBSTSA). To work in Illinois, graduates of the program must provide proof of graduation from a Surgical Technology training program.

Enrollment Requirements

To enroll in Surgical Technology courses, students must meet the application requirements. Application paperwork must be submitted to SWIC Enrollment Services by the application deadline. The admissions procedures for the MST program are in accordance with Illinios law. To obtain information about a readiness visit, contact an academic advisor.

Student should be aware they must pass a criminal background check and drug testing to participate in required clincial experience courses. Additionally, students must present current vaccination records meeting the program's contracted clinical site requirements.

Program Capacity

The Surgical Technology program has capacity for approximately 10 students admitted each academic year at the Sam Wolf Granite City Campus. Seats available are dependent on meeting application requirements and on clinical availability.

Program Location

The Surgical Technology program consists of MST-prefix courses, general education coursework, and assigned clinical internships. Specific locations depend on the course.

1. The MST courses are offered at the Sam Wolf Granite City Campus.
2. Clinical experiences may be scheduled during the day at hospitals/clinics or privately-owned facilities throughout Southern Illinois and in the St. Louis region. Students may be required to travel outside the college district for clinical internship courses. Specific clinical placement cannot be guaranteed, and specific clinical schedules may be changed during courses.

Students are responsible for their own transportation and attendance at any of the classes and clinicals assigned by the program.

Orientation & Performance

Students must attend the required orientation session prior to program start, meet program-specific medical requirements, be able to perform the essential functions of the job as listed in the Student Handbook or at swic.edu with reasonable accommodations if needed, and submit results of a background check, drug screen and the reuired immunizations by the required date as presented in the orientation session. Any applicants or enrolled students are encouraged to contact the Student Accessibility & Support Services at 618-235-2700, ext. 5368, to discuss potential issues associated with meeting these requirements. Students not able to perform the essential element of the job of a surgical technologist position may be unable to pass the required courses. Other program-specific restrictions may apply.

Health Insurance

Health insurance is required during clinical Surgical Technology courses. Students are personally responsible for any costs incurred for injuries occurring during clinical experience in their role as a Surgical Technology .

Medical/Health Requirements

Admitted students will be required to show proof of immunizations, tuberculosis test and before beginning any clinical experience. These requirements do not have to be fulfilled until after the program orientation meetings, but must be fulfilled by the required deadline.

Background Checks and Drug Testing

Criminal background check, random drug test and name search on government registries which prohibit employment in health care professions are required in our health science programs. Program start is contingent upon meeting deadlines for completion of the screening and results which allow the student to participate in the clinical portion of the program. Details and directions for accessing and purchasing online screening for background checks are shared with accepted students. Background checks are conducted for every state in

which the student has worked or resided since the age of 18 years. Conviction of offenses in the following areas normally prohibit the student from participation in the clinical portion of the program and will result in program dismissal: assault, sexual offenses, murder, burglary, arson, and robbery. Refer to the Health Care Worker Background Check Act for a complete list of offenses at www.idph.state.il.us/nar/.

To participate in the clinical portion of the program, students with "disqualifying" offense(s) will be asked to produce a waiver from the Illinois Department of Public Health for identified offenses. To request a waiver application from IDPH, students may call 217-785-5133. Not all clinical sites accept the IDPH waiver (i.e. Missouri sties), therefore required clinical sites are also surveyed to determine if clinical placement can be accomplished. If a waiver cannot be produced prior to clinicals/program start or survey results indicate clinical sites prohibit the conviction, the student will be removed from the program.

In addition, positive results from the drug test or student listing on prohibitory government registry will also result in dismissal from the program. Note: Positive drug testing results from the use of illegal drugs or prescription medication for which the student does not have a prescription, medical marijuana, which is not FDA apprvoed, is also considered a positive drug testing result.

Dismissal for positive criminal background check, drug test, or listing on a government registry does not qualify students for refund of tuition or lab fees. Students who have concerns regarding their status with the above regulations are encouraged to discuss the matter with the program coordinator or the administrative assistant prior to seeking admission.

Graduation Requirements

Applicants admitted to the program must follow course requirements for graduation at the time they are admitted and must meet all course, program, degree and sequencing requirements specified. Posted changes in course requisites are applicable to all newly admitted students. Students are responsible for program policies as listed in each year's Surgical Technology Student Handbook. Students must complete the curriculum within 150% of inital enrollment. A grade of "C" is the minimum grade acceptable for ALL courses in the Surgical Technology curriculum.

Associate in Applied Science Degree (028C)

First Year

Spring Semester			**Semester Credits**
HRO	160	Medical Terminology	3
BIOL	105	Human Biology	4
ENG	101	Rhetoric & Composition I	3
MST	100	Ethical & Moral Concepts	1
MST	102	Healthcare Facility Management	3
MST	104	Sterile Processing Fundamentals	2
Total Semester Credits			**16**

Summer Semester			**Semester Credits**
COMM	151	Fundamentals of Public Speaking	3
SOC	153	Introductory Sociology	3
Total Semester Credits			**6**

Fall Semester			**Semester Credits**
BIOL	250	Microbiology	4
MST	106	Surgical Technology	4
MST	108	Pre-operative Case Management	5
Total Semester Credits			**13**

Second Year

Spring Semester			**Semester Credits**
MST	200	Perioperative Pharmacology	3
MST	202	Intra-operative Case Management	5
MST	204	Clinical Internship I	4
Total Semester Credits			**12**

Fall Semester			**Semester Credits**
MST	206	Post-operative Case Management	5
MST	208	Specialty Surgical Procedures	2
MST	210	Clinical Internship II	6
Total Semester Credits			**13**

Total Program Credits			**60**

Career Opportunities

According to the US Bureau of Labor Statistics Occupational Outlook Handbook, the median wage for Medical Surgical Technologists was $62,250 with a 9% growth outlook from 2020-2030. Hourly and salary ranges can vary dependent on hiring facility and demographics.

Sterile Processing Technician Certificate (028D)

Sterile Processing Technician Certificate. The Sterile Processing Technician program provides the graduate with the ability to take the Certified Registered Central Service Technician (CRCST) exam. Sterile Processing Technicians work in healthcare organizations ensuring surgical instrumentation is clean, disinfected, and sterile following standard and/or universal precautions. The program provides specialized education and experiential learning opportunities in a Central Service Department. To enroll in the Sterile Processing Technician certificate, students must demonstrate a high school diploma or GED and be eligible for ENG 97 and MATH 97.

The Sterile Processing Technician program is offered in a one-semester certificate format. The program is offered as a stand-alone certificate or as a **stackable certificate into the Surgical Technology Associates Degree.

HRO	100	Medical Terminology	1
MST	100	Ethical & Moral Concepts	1
MST	102	Healthcare Facility Management	3
MST	104	Sterile Processing Fundamentals	2
SPT	103	Sterile Processing Concepts	5
SPT	110	SPT Experimental Learning	4
Total Credits:			**16**

Warehousing and Distribution

swic.edu/warehousing

Dean: Dr. Travis Jumper, ext. 7457
Email: Travis.Jumper@swic.edu

Warehouse employees help load and unload freight and move it around warehouses and terminals. Often, these employees work together in groups of three or four. They may use conveyor belts, handtrucks, pallet jacks or fork lifts to move freight. They may place heavy or bulky items on wooden skids or pallets to be moved by industrial trucks.

An objective of the certified warehousing and distribution specialist curriculum is to create a pool of skilled employees from which companies can draw as they staff their warehousing and distribution centers. A second objective is to provide training for employees currently employed in warehousing and distribution to prepare them for greater responsibility and growth in their careers. Skills taught in the courses are drawn from typical job skills requirements as determined by needs analysis among leading-edge warehousing and distribution operations. The curriculum consists of five courses, a warehousing and distribution center simulation, and a final assessment of knowledge and skills.

Warehousing and Distribution Certificate (045W)*

			Semester Credits
WRH	120	Warehousing Environment	1.5
WRH	121	Warehousing Workforce Skills	1.5
WRH	122	Warehousing & Distribution Process	2.5
WRH	123	Warehousing Technology Skills	2
WRH	124	Representative Warehousing Skills	2.5
Total Semester Credits			**10**

*All courses are taken concurrently and offered during one semester.

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Career Opportunities

The number of wage and salary jobs in the truck transportation and warehousing industries is expected to experience steady growth which will result in many job openings because the industry is so large. There will also be openings due to replacement needs for the large number of workers who will transfer to other industries or retire. This certificate will provide skills as a warehouse employee.

Welding Technology

swic.edu/welding

Coordinator/Faculty: Robert "Bo" Lee, ext. 7423
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Dean: Dr. Travis Jumper, ext. 7457
Email: Travis.Jumper@swic.edu

The Welding Technology program prepares welders and related personnel to meet the needs of area and national industry. Emphasis is placed on the skills and knowledge needed to enter the workforce.

See the program coordinator or an academic advisor for more information.

Important Information

The following semester sequence is designed as a guide for students enrolled full time and is not intended as a required schedule. Students should take courses in progression following the appropriate requisites. For information on requisites, please refer to the *Course Description Guide* (yellow section) in this catalog.

Associate in Applied Science Degree (0062)

First Year

Fall Semester			**Semester Credits**
WLDT	100	Welding Technology Orientation	0.5
WLDT	101	Introduction to Welding	5
WLDT	102	Principles of Welding	4.5
WLDT	106	Weld Fabrication Blueprint Reading	3
WLDT	152	All Position Arc Welding	5
Total Semester Credits			**18**

Spring Semester			**Semester Credits**
WLDT	201	Advanced Arc Welding	6
WLDT	251	Structural Fabrication Welding **OR**	4
WLDT	252	Pipe Welding	
WLDT	253	GTAW/GMAW/FCAW/PAC	4
ENG	101	Rhetoric & Composition I	3
Total Semester Credits			**17**

Second Year

Fall Semester			**Semester Credits**
WLDT	254	Testing and Inspection of Welds **OR**	3
WLDT	256	Qual & Cert Procedures - Welding Insps	
WLDT	255	Layout & Fitup for Welders	3
WLDT	260	Welding Automation	5
GT	105	Introduction to Technical Mathematics*	3
HES	152	First Aid Medical Self Help	2
Total Semester Credits			**16**

Spring Semester			**Semester Credits**
WLDT	107	Advanced Blueprint Reading	2
WLDT	270	Robotic Welding & CNC Cutting	5
		Human Relations Elective	3
		General Education Elective	4
Total Semester Credits			**14**

Total Program Credits **65**

Certificate Programs

The Welding Technology Certificate program is designed to train the beginner for entry-level positions in the welding industry and to also offer more advanced technical information and skill for the employed welder. High school articulation is available.

Basic Welding (062A)

WLDT	100	Welding Technology Orientation	0.5
WLDT	101	Introduction to Welding	5
WLDT	102	Principles of Welding	4.5
WLDT	106	Weld Fabrication Blueprint Reading	3
WLDT	152	All Position Arc Welding	5
Total Semester Credits			**18**

Advanced Welding (062B)

WLDT	107	Advanced Blueprint Reading	2
WLDT	201	Advanced Arc Welding	6
WLDT	251	Structural Fabrication Welding **OR**	4
WLDT	252	Pipe Welding	
WLDT	253	GTAW/GMAW/FCAW/PAC	4
Total Credits			**16**

Advanced Welding Manufacturing (062D)

WLDT	254	Testing and Inspection of Welds **OR**	3
WLDT	256	Qual & Cert Procedures - Welding Insps	
WLDT	255	Layout & Fitup for Welders	3
WLDT	260	Welding Automation	5
WLDT	270	Robotic Welding & CNC Cutting	5
Total Credits			**16**

Some courses may have requisites. Refer to the *Course Description Guide* in the yellow section of this catalog.

Career Opportunities

For approved electives, refer to the General Education Course Classifications for the Associate in Applied Science Degree.

MATH 112 or higher-level math may be substituted for GT 105

*If a 4-hour MATH course is substituted for GT 105 the General Education Elective credit requirement for this program is reduced to 3 credits.

Career Opportunities

Welders, welding inspectors and technicians continue to be in high demand both locally and nation-wide. Graduates of the welding program find employment in many economic sectors, including: manufacturing, construction, mining, chemical, oil and gas, maintenance, sales, art and education.

Apply for Graduation Now

ASSOCIATE

IN

GENERAL STUDIES

Associate in General Studies

Program Code: 0003

Description:

These requirements are for students whose interests and educational objectives do not fall within either a traditional transfer or occupational program. The Associate in General Studies degree allows students to explore a wide range of subject areas without concentrating on any particular one. **This degree is not designed to transfer to four-year colleges or universities or, in most cases, to prepare for career entry.**

Admission:

In general, the intentions of the AGS are to provide: 1) a liberal studies program; 2) an individualized program meeting needs not met by other programs; and 3) a capstone program for graduates of occupational certificate programs. Students requesting admission into the Associate in General Studies degree program will be required to establish a formal degree plan with an academic advisor and take the college Placement Test for appropriate course placement in English and math. This plan must be filed with Enrollment Services prior to the completion of the last 15 credits of required coursework. **Students who have earned an associate degree or are eligible for an associate degree other than the AGS will not be considered for this degree.**

Terms:

Students have six years to complete the requirements for the program they have declared. If the requirements are not completed within six years, students will be required to meet degree requirements for the program in effect at that time. However, students not enrolled for three consecutive semesters (not including summer) must meet the curriculum requirements in effect at the time of re-enrollment. Students can always choose to complete the current curriculum degree requirements.

Total Hours:

A minimum of 64 semester credits is required for this degree.

Residency:

Fifteen of the last 24 credits must be completed at Southwestern Illinois College.

GPA:

A minimum cumulative GPA of 2.00 is required for the degree.

Human Relations:

One of the following courses must be completed. The course that is selected may also be applied toward the Humanities or Social/Behavioral Science General Education requirement as applicable. For reference, these courses are listed in white print in the general education areas.

_____ Humanities: HIST 230, LIT 117, LIT 215, LIT 216
_____ Social Science: HIST 180, HIST 181, HIST 292, POLS 150
_____ Behavioral Science: PSYC 265, PSYC 295, SOC 153, SOC 203, SOC 230

Math and English Course Placement:

All beginning degree-seeking students are required to be assessed and placed in the appropriate math and/or English classes. For more information, please refer to the *Math and English Course Placement* section in this catalog.

College Orientation:

Beginning students are encouraged to enroll in ORIE 101 College Orientation Seminar or ORIE 110 College Success Strategies. For information regarding this course, see the *Course Description Guide* at the back of the catalog.

Apply for Graduation:

Students must submit an application to Enrollment Services. Applications can be submitted through eSTORM or through Enrollment Services. To be considered for a specific term, applications must be received by the following dates:

Term	Application Date
Fall/December	Oct. 15
Spring/May	Feb. 15
Summer/July	June 15

Associate in General Studies

Degree Requirements Checklist

Communications (total of 9 semester credits) A minimum grade of "C" is required for ENG 101 & ENG 102

_____ ENG 101 _____ ENG 102 _____ COMM 151 or COMM 155

Mathematics (total of 4 semester credits)

_____ MATH 107 _____ MATH 115 _____ MATH 204 _____ MATH 271
_____ MATH 111 _____ MATH 171 _____ MATH 205 _____ MATH 290
_____ MATH 112 _____ MATH 191 _____ MATH 210 _____ MATH 292
_____ MATH 113 _____ MATH 203 _____ MATH 213 _____ BUS 205

Physical Science (total of 4 semester credits) One laboratory course required

_____ ATY 101 _____ BIOL 151 _____ CHEM 100 _____ CHEM 202 _____ PHYS 151
_____ BIOL 100 _____ BIOL 157 _____ CHEM 101 _____ ES 101 _____ PHYS 152
_____ BIOL 101 _____ BIOL 158 _____ CHEM 103 _____ ES 102 _____ PHYS 204
_____ BIOL 102 _____ BIOL 204 _____ CHEM 105 _____ ES 114 _____ PHYS 205
_____ BIOL 105 _____ BIOL 250 _____ CHEM 106 _____ ES 180 _____ PHYS 206
_____ BIOL 108 _____ BIOL 270 _____ CHEM 201 _____ ES 250 _____ SCIE 101
_____ SCIE 110

Humanities and Social/Behavioral Science (total of 9 semester credits)
At least one course must be taken in Humanities and at least one from Social/Behavioral Science

Humanities

_____ ART 101 _____ FILM 225 _____ LIT 133 _____ LIT 251 _____ PHIL 151
_____ ART 102 _____ FREN 202 _____ LIT 134 _____ LIT 252 _____ PHIL 152
_____ ART 103 _____ GERM 202 _____ LIT 201 _____ LIT 290 _____ PHIL 153
_____ ART 104 _____ HIST 230 _____ LIT 202 _____ LIT 291 _____ PHIL 154
_____ ART 105 _____ HIST 286 _____ LIT 205 _____ LIT 293 _____ PHIL 155
_____ ART 106 _____ HUM 200 _____ LIT 213 _____ MUS 101 _____ SPAN 202
_____ ART 110 _____ LIT 113 _____ LIT 214 _____ MUS 102 _____ THEA 120
_____ ED 293 _____ LIT 117 _____ LIT 215 _____ MUS 103
_____ FILM 115 _____ LIT 120 _____ LIT 216 _____ MUS 110
_____ FILM 215 _____ LIT 125 _____ LIT 219 _____ PHIL 150

Social/Behavioral Science

_____ ANTH 150 _____ GEOG 241 _____ POLS 150 _____ PSYC 250 _____ PSYC 288
_____ ANTH 160 _____ HIST 101 _____ POLS 240 _____ PSYC 251 _____ PSYC 295
_____ ANTH 210 _____ HIST 102 _____ POLS 241 _____ PSYC 252 _____ SOC 153
_____ ANTH 250 _____ HIST 115 _____ POLS 262 _____ PSYC 253 _____ SOC 203
_____ ECON 115 _____ HIST 117 _____ POLS 270 _____ PSYC 254 _____ SOC 210
_____ ECON 201 _____ HIST 118 _____ POLS 289 _____ PSYC 259 _____ SOC 222
_____ ECON 202 _____ HIST 180 _____ POLS 290 _____ PSYC 260 _____ SOC 220
_____ ED 252 _____ HIST 181 _____ POLS 292 _____ PSYC 265 _____ SOC 230
_____ GEOG 151 _____ HIST 232 _____ PSYC 151 _____ PSYC 266 _____ SOC 255
_____ GEOG 152 _____ HIST 250 _____ PSYC 200 _____ PSYC 270 _____ SOC 265
_____ GEOG 202 _____ HIST 288 _____ PSYC 210 _____ PSYC 277
_____ GEOG 240 _____ HIST 292 _____ PSYC 225 _____ PSYC 280

Computer Literacy (total of 3 semester credits)

_____ CIS 185 _____ BUS 209

Human Well-Being (total of 2 semester credits)

_____ HES 130 _____ HES 151 _____ HES 154 _____ HES 156 _____ HES 172
_____ HES 131 _____ HES 152 _____ HES 155 _____ HES 158 _____ HES 180
_____ HRO 150

Electives (total of 33 semester credits) Any courses, 100-level or above

Human Relations Course

Community Service, Education and Partnerships

Adult Education and Literacy
Illinois High School Diploma
English as a Second Language/Citizenship/
Vocational Training
Literacy Services
Youth Programs
College and Career Transitions

Programs and Services for Older Persons
Educational Programs, Activities & Travel
Health and Wellness
Caregiver Counseling Programs
Volunteer Opportunities
Home Care, Intergenerational and Housing Programs
Illinois Telecommunication Access Corporation
Transportation

Adult Education and Literacy:

Illinois High School Diploma, English as a Second Language, Vocational Training and Literacy

swic.edu/adult-education

Director Mereadith Shivers, MS
Assistant Director: Torrin Suedmeyer, MA
English as a Second Language Director: Leslie Wagner, MA
Literacy Coordinator: Mary J. Margarida, MA

Adult Education and Literacy provides free classes in reading, Illinois High School Diploma Test Preparation, English as a Second Language, Citizenship, and computer skills. In cooperation with other college departments, Adult Education and Literacy offers vocational training in nurse assistant, construction, community health worker, computer numeric coding, and health science. These classes and services are offered at the Belleville, Red Bud and Sam Wolf Granite City campuses, the East St. Louis Higher Education Center and at additional sites throughout the district. Day and evening classes are available.

Case management is an intricate component of SWIC Adult Education's enrollment and transitional services. Therefore, referral and supportive services are provided as needed to assist learners in reducing personal barriers that may affect their ability to meet their education, employment, and career goals. Supportive services range from remote services to transportation assistance.

Generally, Adult Education and Literacy serves individuals 16 years and older who lack a secondary school diploma or its recognized equivalent; those for whom English is a second language or people deficient in the basic educational skills needed to function effectively in society. The overall goals of the federal and state legislation for adult education are to assist adults in obtaining the knowledge and skills necessary for employment and self-sufficiency. At Southwestern Illinois College, all adult education programs incorporate basic computer literacy, and there is a strong emphasis on transitioning students into the college's regular credit classes and programs.

High school diploma test preparation classes provide intensive preparation for the high school diploma test. Instruction incorporates the four subject areas – language arts, social studies, science, and math. Classes are short in duration and focus on both the Illinois Content Standards and needed test-taking skills. An online high school diploma test preparation course is available each semester as well as bridge courses that focus on high school diploma preparation and readiness for college coursework in specific occupational field, such as health care. There are frequent opportunities for self-evaluation to determine readiness to test and the opportunity to take the U.S. and Illinois Constitution test ahead of the high school diploma testing time. Classes are available in person and remotely.

English as a Second Language classes teach non-native English speaking immigrant adults to understand, speak, read and write English. Instruction incorporates best practices from adult learning and language acquisition theory, and all classes are highly interactive. Students at the highest levels are encouraged to transition into regular college courses. Digital Literacy, Civics, and Career and Educational readiness skills are incorporated. ESL classes are offered both days and evenings at the Belleville and Sam Wolf Granite City campuses and Fairmont City on a year-round schedule.

Vocational Adult Education collaborates with other college departments to provide additional vocational training opportunities. Since space is limited, acceptance into the vocational training programs is competitive. Candidates must be adult education eligible and successfully complete an entrance process. Tuition, fees and program expenses are paid through Adult Education and Literacy for those accepted into the program. Students who enroll through Adult Education and literacy commit to efforts to find employment in the field of their training or to pursue further training. Current areas of study are:

- Construction
- Computer Numeric Coding
- Community Health Worker
- Nurse Assistant

In addition to formal classes and programs, Adult Education and Literacy provides other education services. A **Project READ Adult Volunteer Literacy Program** provides free literacy tutoring to individuals throughout the district who need to improve their basic reading and math skills. Tutors meet with individuals at the campuses, in libraries or in other public places.

A **Youth Empowerment Support Services Program (YESS)** help low-income, out-of-school youths ages 16-24 earn their high school diploma and transition into further education and employment. It operates out of the Belleville and the Red Bud campuses and is a Workforce Innovation and Opportunity Act-sponsored program.

Reading and mathematics classes are designed to help students improve their reading, writing and math skills. Instruction incorporates best practices from research in adult learning. Classes are short and intensive with opportunity for frequent self-evaluation of progress. These classes use subject matter that students will need if they take the high school diploma test. There is a technological component to many of the classes. Classes are offered both days and evenings at the Belleville and Sam Wolf Granite City campuses and East St. Louis Higher Education Center on a year-round schedule.

College and Career Transition programs provide the opportunity to learn the skills necessary to a) gain entry-level employment in a variety of career fields; b) work toward obtaining an industry recognized credential; c) work toward an associate degree.

Transition programs are based on the ICAPS model (Integrated Career and Academic Preparation System) and combine adult education classes with credit-bearing, foundation courses in Healthcare or Computer Numeric Coding.

- The **Healthcare** transition program consists of two programs of study. In the area of high school diploma, students may work toward passing their diploma test while being enrolled in classes that are taught within the context of a career in a healthcare field. Students who earn their high school diploma or already have a high school diploma may enroll in the Certified Nurse Assistant ICAPS program. In this program, students are co-enrolled in HRO 105 Nurse Assistant and GSBS 119 Health Career Support Skills, a support class offered by the Adult Education and Literacy department and is designed to help ensure that students pass the HRO 105 class while learning how to conduct a job search, use the internet to apply for jobs, participate in interviews and most importantly, learn effective on-the-job behaviors. Students may also elect to transition into other healthcare fields of study at SWIC.

Free Academic Classes

GSBS 52 Careers in Health Sciences I .5-3 credits
This course will assist students in developing their reading, writing and math skills using resources and materials from health sciences. Students will explore personal interests and aptitudes with the health science field and the career pathways pursued by health care professional. This course is designed for persons preparing for the GED and transitioning into college-level study in the health sciences.
Type: P

GSBS 53 Careers in Health Sciences II .5-3 credits
This course will assist students in developing their reading writing and math skills using resources and materials from the health sciences. Students will refine their career goals within health science and research specific interests. They will develop the needed personal, academic and computer skills needed for study and work in this field. This course is designed for persons preparing for the high school diploma exam and transitioning into college-level study in the health sciences.
Type: P

GSBS 54 Careers in Health Sciences III .5-3 credits
This course will assist students in developing their reading writing and math skills using resources and materials from the health sciences. Students will explore personal interests and aptitudes within the health science field, learn the steps necessary to transition into post-secondary health care education and develop a personal plan for career development. They will develop the needed personal, academic and computer skills needed for study and work in this field. This course is designed for persons preparing for the high school diploma exam and transitioning into college-level study in the health sciences.
Type: P

GSBS 55 Careers in Health Sciences-ESL .5-6 credits
This course will assist students in developing their English language skills while using resources from the health sciences. Students will explore their personal interests within the health science field. They will develop the academic skills needed for study and work in the health sciences. This course is designed for persons at the Advanced level of ESL who are preparing to transition into college-level study.
Fall, Spring, Summer
Type: P

GSBS 84 Beginning ELA I .5-6 credits
This is the first of two beginning level English language classes for students who speak little or no English. The course aids non-native English speaking students in the development of very basic oral and written English abilities.
Type: P

GSBS 87 Beginning ELA II .5-6 credits
This is the second of two beginning level English language classes for students who speak little or no English. The course aids non-native English speaking students in the development of very basic oral and written English abilities.
Type: P

GSBS 100 Pre HSE I .5-6 credits
This course is the first in a series of high school diploma test preparation classes that includes basic skills such as literacy, reading, computation, communication, life skills and library and study skills.
Type: P

GSBS 101 Pre HSE II .5-6 credits
This course is the second in a series of high school diploma test preparation classes that includes basic skills such as literacy, reading, computation, communication, life skills and library and study skills. It covers the essentials of English, grammar, essay writing and comprehension in math, social studies, science and literature.
Type: P

GSBS 102 Pre HSE III .5-6 credits
This course is the third in a series of high school diploma test preparation classes that includes basic skills such as literacy, reading, computation, communication, life skills and library and study skills. It takes students into progressively more challenging components in English, grammar, essay writing and comprehension in math, social studies, science and literature.
Type: P

GSBS 103 Pre HSE IV .5-6 credits
This course is the fourth in a series of high school diploma test preparation classes that includes basic skills such as literacy, reading, computation, communication, life skills and library and study skills. It takes students into progressively more challenging components in English, grammar, essay writing and comprehension in math, social studies, science and literature. This course also prepares students to move into HSE (secondary education) classes.
Type: P

GSBS 104 Pre HSE V .5-6 credits
This course is the fifth in a series of high school diploma test preparation classes that includes basic skills such as literacy, reading, computation, communication, life skills and library and study skills. It takes students into progressively more challenging components in English, grammar, essay writing and comprehension in math, social studies, science and literature. This course also prepares students to move into HSE (secondary education) classes.
Type: P

GSBS 105 Pre HSE VI .5-12 credits
This course is the sixth in a series of high school diploma test preparation classes that includes basic skills such as literacy, reading, computation, communication, life skills and library and study skills. It takes students into progressively more challenging components in English, grammar, essay writing and comprehension in math, social studies, science and literature. This course also prepares students to move into HSE (secondary education) classes and introduces the study of the Constitution.
Type: P

GSBS 112 Intermediate ELA I .5-6 credits
This is the first of two intermediate level English language classes for non-native English speaking students who have basic English abilities. The course focuses on improving English reading, writing, listening, and speaking abilities for the purpose of meeting basic survival and social needs. Technology is introduced as a component of language learning.
Type: P

GSBS 113 Intermediate ELA II .5-6 credits
This is the second of two intermediate level English language classes for non-native English speaking students who have basic English abilities. The course focuses on improving English reading, writing, listening, and speaking abilities for the purpose of meeting basic survival and social needs. Technology is introduced as a component of language learning.
Type: P

GSBS 114 Advanced ELA I .5-6 credits
This is the first of two advanced level English language classes for non-native English speaking students. The course focuses on improving English reading, writing, listening, and speaking abilities for the purpose of community participation, employment, and/or to further the educational opportunities in the U.S. Students completing this level are able to begin High school diploma preparation or transition to a vocational training program.
Type: P

GSBS 115 Advanced ELA II .5-6 credits
This is the second of two advanced level English language classes for non-native English speaking students. The course focuses on improving English reading, writing, listening, and speaking abilities for the purpose of community participation, employment, and/or to further the educational opportunities in the U.S. Students completing this level are able to begin High school diploma preparation or transition to a vocational training program.
Type: P

GSBS 120 ESL Reading Skills 3 credits
This is a basic reading class designed to help intermediate to advanced level ELA students develop confidence in reading. A focus on essential reading strategies will help students improve reading comprehension and speed while developing vocabulary building and basic academic skills. Students will read texts from a variety of sources on life skills and workplace topics to develop critical thinking skills in preparation for a successful transition into postsecondary education or training, or employment.

GSBS 121 ABE Review Math .5-3 credits
This course describes the development of computing and other mathematical reasoning abilities. It includes basic addition, subtraction, multiplication, division, fractions, percentages, and measurements.
Type: P

GSBS 122 ABE Review .5-3 credits
This course is a transition course designed to prepare students to move into Adult Secondary Education classes and further prepare for passing the high school diploma test. It is a comprehensive review of basic literacy, reading, computation, communication, life skills and library and study skills.
Type: P

GSBS 126 ABE Math .5-6 credits
This course covers reading comprehension problems in several areas of basic-level mathematics.
Type: P

GSBS 131 HSE Math Test Prep .5-3 credits
This course concentrates on quantitative problem solving and algebraic problem solving to prepare students for the math component of the high school diploma exam. Content includes conceptual understanding, procedural skill and fluency, and developing the ability to apply these in workforce and academic contexts.
Type: P

GSBS 132 ASE Test Prep .5-3 credits
This course includes instruction in language arts, science and social studies in preparation for the high school diploma exam. Content includes study skills, technology, and test preparation skills.
Type: P

GSBS 141 ELAP Transitional Reading I .5-6 credits
This is the first of two transitional reading skills courses for non-native English speakers who have completed or tested out of Adult Education ELAP classes and who are preparing for post-secondary education at a U.S. college or university. This course is designed to strengthen reading skills and will focus on reading comprehension, ability to make inferences, reading speed, and vocabulary building strategies.
Type: P

GSBS 142 ELAP Transitional Reading II .5-6 credits
This is the second of two transitional reading skills courses for non-native English speakers who have completed or tested out of Adult Education ELAP classes and who are preparing for post-

secondary education at a U.S. college or university. This course is designed to strengthen reading skills and will focus on reading comprehension, ability to make inferences, reading speed, and vocabulary building strategies.
Type: P

GSBS 150 ESL Career Exploration .5-6 credits
This class serves intermediate-level ESL students looking to improve their language skills while learning about education and career pathways available to them. Students will also be guided in assessing their own skills & goals, and will develop a personal portfolio containing their resume, interview strategies, etc. Frequent guest speakers will share information on various programs available to Adult Education students, such as CNA and Precision Machining, and on transitioning to college education.
Type P

GSBS 158 ABE Job Skills .5-4 credits
This course is for the student who is looking for a job or seeking a better job. It is a variable credit course with four levels. ABE Job Skills I: value activities, goal setting and workplace exploration. ABE Job Skills II: searches, applications, interviewing and behaviors. ABE Job Skills III: planning, budgeting and basic computer skills. ABE Job Skills IV: computer usage, computer applications, job practices and behaviors.
Type: P

GSBS 159 Career Development .5-2 credits
This variable credit course provides opportunities for career exploration using Illinois Career Cluster framework and for the development of the skills necessary to enter post-secondary education for ultimate employment within that cluster.
Type: P

GSBS 160 ABE Career Pathways .5-1 credits
This class prepares students to enter ABE-level Math and Language Arts classes by helping them to determine career goals and select a career pathway. Students will also learn how the Adult Education program can help them obtain a high school diploma certificate, vocational certificate or transition into credit-bearing classes at SWIC.
Type: P

GSBS 161 ASE Career Pathways .5-1 credits
This class prepares students to enter ABE-level Math and Language Arts classes by helping them to determine career goals and select a career pathway. Students will also learn how the Adult Education program can help them obtain at high school diploma certificate, vocational certificate or transition into credit-bearing classes at SWIC.
Type: P

GSBS 163 ESL Forklift Readiness .5 credits
This is a support class for no-native English speakers who need language support in order to successfully complete IML 189, Forklift Truck Safety Certification Class. Class instruction will focus on vocabulary integral to the topic of forklifts and forklift safety.
Type: P

GSBS 167 Transitions to College .5-2 credits
This variable credit course provides opportunities for career exploration using Illinois Career Cluster framework and for the development of the skills necessary to enter post-secondary education for ultimate employment within that cluster.
Type: P

GSBS 190 HSE Test Prep I .5-6 credits
This course covers the essentials in English grammar, essay writing, and reading comprehension necessary to prepare for the Language Arts component of the high school diploma exam.
Type: P

GSBS 191 HSE Test Prep IV .5-6 credits
This course is the fourth in a series of high school diploma test preparation classes that builds upon the work of prior courses and includes the essentials of language arts, math, science and social studies as well as life skills and workforce skills.
Type: P

GSBS 192 HSE Test Prep II .5-6 credits
This course concentrates on the three context domains of life science, physical science, and Earth and space science in order to prepare students for the high school diploma exam. Content includes textual analysis and understanding, data representation and inference skills, and problem solving in academic and workforce contexts.
Type: P

GSBS 193 HSE Test Prep III .5-6 credits
This course concentrates on the content domains of civics and government, United States history, economics, and geography and the world to prepare students for the high school diploma exam. Instruction focuses on the development of problem-solving skills in academic and workplace contexts. The Constitutions of the U.S. and Illinois are covered.
Type: P

GSBS 194 HSE Test Prep V .5-6 credits
This course is the fifth in a series of high school diploma test preparation classes that builds upon the work of prior courses and includes the essentials of language arts, math, science and social studies as well as life skills and workforce skills. Deeper study of the U.S. and Illinois Constitutions are included.
Type: P

GSBS 195 HSE Test VI .5-6 credits
This course is the sixth in a series of high school diploma test preparation classes that builds upon the work of prior courses and includes the essentials of language arts, math, science and social studies as well as life skills and workforce skills. In-depth study of the U.S. and Illinois Constitutions are included.
Type: P

GSVR 176 Career Exploration & Readiness .5-4 credits
This course enables students to better understand the contemporary work environment and prepares them for successful transition into work and a career. Students engage in personal skills analysis, set personal goals and examine the demands of various career paths. They learn how to search for

employment, prepare a resume and job application and practice interviewing. In addition, students upgrade oral and written communications and basic computer usage skills.
Type: P

GSVR 181 Career Exploration Spanish .5-4 credits
This class prepares students to enter into Spanish HSE classes by helping them to define career goals and select a Career Pathway. Students will also learn how the Adult Education program can help them obtain a high school diploma certificate, vocational certificate or transition into credit-bearing classes at SWIC.
Type: P

Community Education and Partnerships

Community Education

swic.edu/community

Community Education courses are designed for students who are interested in personal development activities. These courses are offered at the Belleville campus.

Community Education credit is not applicable toward any associate degree or occupational certificate at Southwestern Illinois College. For further information, call the office of Community Education at 618-235-2700, ext. 5393.

Personal Development and Individual Enrichment Courses

Community Education offers noncredit classes for residents of various ages. Computer education, grant writing, and ethnic cuisine are just a few of the offerings available through this department. Classes are short-term and reasonably priced, meeting on Saturdays or weeknights for your convenience.

Programs for youth are available in the summer. The summer Kids on Campus and College for Kids programs offer students the opportunity to learn while having fun. Week-long programs feature everything from rocket science to multicultural and foreign language experiences to computer game design.

High school students who need help getting into the college of their choice can attend SAT Prep Classes at SWIC. These noncredit Saturday classes provide students with helpful hints for interpreting questions and understanding the types of information included in the test. Advance registration is required.

Development/Review of Vocational Skills

GSVR 81 Life Skills for Special Needs 2 credits
Teaches and reinforces specific skills needed for adults with special needs to function in society. Class is designed to teach related skills, independent living, safety and other related topics.
Type: P

Paraprofessional Test for Teacher's Aides

Individuals who would like to work as a teaching aide in local schools must pass a certification test. This certification is required for employment in most Illinois schools.

Classes to assist in preparing for this test are available through the Community Education office. The WorkKeys Paraprofessional Certification Test is also offered through this office. For schedule of classes and test dates, please contact the Community Education office at 618-235-2700, ext. 5393.

Special Interest Seminars

Local experts share information on topics of interest to members of the community. These programs are offered over several weeks and cover a variety of topics. Currently, residents can attend seminars on Medicare and Buying & Selling Homes.

For information on any of these classes or programs, call the Community Education office, 618-235-2700, ext. 5393, or visit the office in Room 2030 of the Information Sciences Building, Belleville Campus.

The National Test Center – Scott Air Force Base

The National Test Center at Scott Air Force Base offers CLEP, DSST, and school exams to active duty military, Air Force and Army Reserve, Air National Guard, Army National Guard, dependents, retirees, civilians, and contractors who have access to Scott Air Force Base. CLEP and DSST exams demonstrate a test takers mastery of a college subject. Testers who pass may receive 3-6 college credits for these exams depending on their school policy. There are 33 CLEP exams and 34 DSST exams offered. Students taking online college courses who need a proctor for mid-term/final exams may contact the NTC. The NTC is located in the Base Education Center, Room 76. Exams are offered multiple days and times with a schedule built out two months in advance. For more information, contact Lillian.Sands@swic.edu at, 618-641-6677, or 618-744-9517

Scott Air Force Base

Although students need not be affiliated with the military to attend class on base, Scott Air Force Base has an office and educational center for Air Force personnel who want to work toward their Community College of the Air Force or other degrees. SWIC personnel are available from 8 a.m. to 4 p.m., Monday through Friday to answer questions and help students register for classes, access financial aid and complete forms for college programs. Classes are held on base at the education center during the evenings. A computer lab is also available for student use.

For more information on Scott Air Force Base classes, contact Michelle.Deverman@swic.edu, 618-235-2700, ext. 5056, or 618-746-4200.

Wyvetter Younge (East St. Louis) Higher Education Center

The Wyvetter Younge (East St. Louis) Higher Education Center, located at 601 James R. Thompson Blvd., also houses SWIC classes and programs. Students can enroll in college classes and certificate programs at this location. Adult Education and Literacy (Illinois High School Diploma), CNA, welding and other vocational programs are offered at this site.

sactivities. Additional Running Start programs are available for one-year opportunities.

Programs and Services for Older Persons (PSOP)

201 N. Church St., Belleville, IL 62220 –
618-234-4410

swic.edu/psop

PSOP provides a wide variety of services, programs and activities to promote healthy aging for adults aged 55-plus, promoting independence and helping them remain in their homes as long as possible. PSOP is committed to active aging through engagement in physical, mental and volunteer activities which facilitate seniors to thrive, remaining vibrant and connected to others and the world at large.

These opportunities are provided in offices located throughout the college district. Some of the services provided are:

Educational Programs

A variety of workshops and seminars are offered. Educational topics cover subjects of importance to seniors and caregivers to include health, legal and financial issues. Other programming promotes lifelong learning based on topics of interest and enjoyment.

SeniorLink Computer Training

SeniorLink computer training is designed to teach mature adults how to navigate multiple computer programs and applications including Windows, email, the internet and social networking sites. Classes are small and instructors assist students to learn at their own pace.

Access to Resources and Public Benefits

Trained staff assist seniors to access and receive multiple public benefits and services including the Senior Health Insurance Program, Benefits Access and other government benefit programs. Advocacy services provided include information about living wills and powers of attorney for health care and finance as well as veteran's services.

Social and Recreational Activities

Social and recreational activities are offered through PSOP and at the Shiloh Senior Center. Regular activities include card and board games, Breakfast Club, Lunch Bunch, Dine Around as well as weekly lunches and table games. Day trips and overnight trips promote socializing and fun. Dances, hobbies and crafts, sports activities and other cultural and special events with a focus on ages 55-plus are also featured.

Travel

Fun and educational group travel experiences to exciting destinations, including day trips and extended tours within the United States, as well as international travel and cruises are offered. Open to individuals of all ages, the Travel Program offers opportunities to make new friends and visit interesting places.

income eligibility requirements, may apply to become a Foster Grandparent and earn a tax-free stipend and other benefits.

- Placement of persons 55 years and older in volunteer situations with children from infancy to age 21
- Reimbursement of approved expenses and stipends for volunteers

Health and Wellness Programs

Classes to improve strength, balance and coordination for all activity levels including Gentle Yoga and Tai Chi. Multiple options for increasing activity levels including Line Dancing, and group exercise are available. Health screening and counseling as well as programs to help manage and support chronic conditions that we encounter by living longer are also provided.

Older Adult and Caregiver Counseling Programs

Short term counseling is available for St. Clair County residents over the age of 60, or for those who provide caregiving for a family member or friend over the age of 60. The goal of the programs is to provide community resource information and assist with emotional adjustments related to aging, illness, bereavement, life events, or caregiving. Counseling is available in the home or at the PSOP building. Consultations and sessions are free of charge but donations to the program are accepted. Related community eduction programs, support groups, and literature are also available.

Volunteer Opportunities (RSVP)

RSVP recruits individuals to volunteer through agencies, hospitals, libraries and schools. More than 110 community agencies draw upon RSVP volunteers. Both short- and long-term volunteer assignments are available. Individuals over 55 help others through agencies, hospitals, libraries, nursing homes, and schools.

Home Care (Senior Companions)

The Senior Companion Program provides assistance to homebound elderly in need of companionship because of loneliness, illness or physical impairment. The program also offers respite for caregivers of these individuals. The service is free to the client. As a senior companion, individuals 55 years of age or older, who meet income guidelines, can help others while earning a tax-free stipend and other benefits.

- Placement of volunteers 55 years and older
- Services for frail, lonely, ill or homebound
- Respite services for caregivers
- Reimbursement of approved expenses and stipends for volunteers
- Lifeline Medical Alert Services

Intergenerational Program (Foster Grandparents)

The Foster Grandparent Program provides trained senior volunteers to schools, Head Start and day care centers. Individuals 55 years of age or older, who love children and meet income eligibility requirements, may apply to become a Foster Grandparent and earn a tax-free stipend and other benefits.

- Placement of persons 55 years and older in volunteer situations with children from infancy to age 21
- Reimbursement of approved expenses and stipends for volunteers

Housing (Service Coordination Program)
The Service Coordination Program serves seniors and disabled residents living in subsidized housing with referrals to service providers, advocacy and complaint resolution, linkage with SWIC/PSOP programs, and individual needs assessment. Information on affordable housing options is also available.

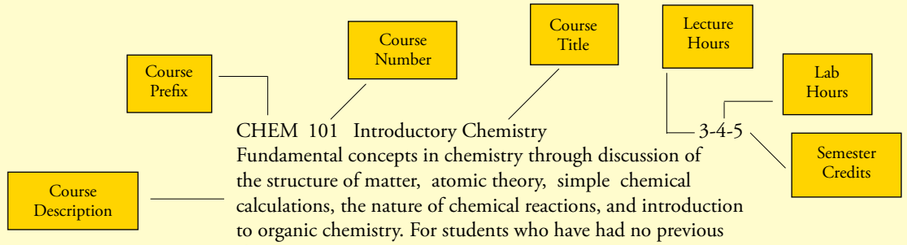
Illinois Telecommunication Access Corporation (ITAC)
PSOP is a selection/testing center for the Illinois Telecommunication Access Corporation program which provides a free amplified telephone for people who are hard of hearing, late deafened, deaf, deaf-blind or speech disabled. Eligibility requirements for an ITAC amplified phone include: legal Illinois resident, any age/any income, working standard phone service in residence (landline phone) and certified as unable to use the standard phone system by licensed family physician or audiologist. For information visit www.itactty.org.

Transportation

Alternative Transportation System (ATS)
Curb-to-curb transportation service is provided to Americans with Disabilities Act-eligible individuals and individuals 60 years of age or older in some areas. Reservations are necessary.
- Multiple township service areas
- Fare paid for any trip purpose
- 618-239-0749

COURSE DESCRIPTION GUIDE

How To Read A Course Description



Course Numbering

Below 100 Courses numbered below 100 are developmental, general studies or refresher courses.

100-199 Courses numbered 100-199 are first-year or freshman-level courses.

200-299 Courses numbered 200-299 are second-year or sophomore-level courses.

Semester Credits

Each course description reflects the number of semester credits that will be earned upon successful completion of the course. In addition, the description reflects the number of hours per week spent on lecture/lab activities.

Requisite

In order to ensure that students are adequately prepared for courses, some courses require completion of foundation courses or demonstrated skill levels prior to enrollment. These requisites are listed at the end of each course description if applicable.

Type

Following courses that have been approved as part of the Illinois Articulation Initiative is a common code used by all participating colleges and universities across the state. This code reflects the area of the *Illinois General Education Core Curriculum* to which the course applies. The following are general coding descriptions:

IAI Code

IAI C – Communications
IAI F – Fine Arts
IAI H – Humanities
IAI L – Life Science
IAI M – Mathematics
IAI P – Physical Science
IAI S – Social Behavioral Sciences

In addition, the following codes are used to identify course types:

P Developmental courses that are designed to prepare students for college-level courses

T Transfer courses that are generally accepted as major, minor, or elective credit by four-year collegiate institutions

C Career oriented courses that are intended for AAS degrees or occupational certificates

Course Prefixes

Accounting ..... ACCT
Administration of Justice ..... AOJ
Aeroronautical Information Systems ..... AVG
Aerospace Studies – Air Force ROTC ..... AS
Agriculture ..... AGRI
See also *Agriculture Business Administration*
Agronomy
Anthropology ..... ANTH
Art ..... ART
Astronomy ..... ATY
Automated Manufacturing Systems – *See Electrical/Electronics Technology*
Aviation Maintenance Technology ..... AVMT
Aviation Pilot Training/Aviation Management ..... AVIA
Avionics ..... AVE
Biology ..... BIOL
Bricklayer Apprentice ..... BLA
Business ..... BUS
See also *Accounting*
Economics
Esports Management
Management
Marketing
Cannabis ..... CAN
Chemistry ..... CHEM
Child Care Services – *See Early Childhood Education*
Chinese ..... CHIN
Cisco Networking Academy ..... CISC
Civil Engineering Technology ..... CET
Communications ..... COMM
Community Health Worker ..... CHW
Computer Aided Design ..... CAD
Computer Information Systems ..... CIS
Construction Carpentry ..... CCA
Construction Cement Mason ..... CMA
Construction Ironworker ..... IWA
Construction Management ..... CMT
Construction Painting & Decorating ..... PDA
Construction Sheetmetal ..... SMA
Culinary Arts and Food Management ..... CUL
Cybersecurity – *See Cisco or Networking*
Diagnostic Medical Sonography ..... DMS
Early Childhood Education ..... ECE
Earth Science ..... ES
Economics ..... ECON
Education ..... ED
Emergency Medical Services (Paramedic/EMT) ..... EMS
Engineering ..... ENGR
English ..... ENG
eSports Management ..... ESM
Film ..... FILM
Fire Science ..... FS
French ..... FREN
General Technology ..... GT
Geography ..... GEOG
Geospacial & Aeronautical Information Systems ..... GIS
German ..... GERM
Graphic Communications ..... CIS
Health & Exercise Science ..... HES
Health Information Technology ..... HIT
Health Related Occupations ..... HRO
Heating, Ventilation, Air Conditioning, and Refrigeration ..... HVAR
History ..... HIST
Histotechnology ..... HT
Homeland Security ..... HS
Horticulture ..... HORT
Human Services Technology ..... HMS
Humanities ..... HUM
Independent Study ..... IND
Industrial Electrical Wireman ..... IEW
Industrial Electricity ..... EET
Industrial Mechanics ..... IML
Industrial Pipefilling ..... IDP
Journalism - *see Mass Communication*
Labor ..... LABR
Legal Studies ..... PARL
Literature ..... LIT
Management ..... MGMT
Marketing ..... MKT
Mass Communication ..... MCOM
Massage Therapy ..... MT
Mathematics ..... MATH
Medical Assistant ..... MA
Medical Laboratory Technology ..... MLT
Medical Surgical Technology - see Surgical Technology
Military Science – Army ROTC ..... MSC
Music ..... MUS
Networking ..... CISC, NETW
Nursing Education ..... NE
Orientation ..... ORIE
Pharmacy Technicial ..... PHAR
Office Administration & Technology ..... OAT
Philosophy ..... PHIL
Physical Therapist Assistant ..... PTA
Physics ..... PHYS
Plumbing ..... PLBR
Plumbing Technology ..... PLT
Political Science ..... POLS
Practical Nursing ..... PN
Precision Machining Technology ..... PMT
Psychology ..... PSYC
Radiologic Technology ..... RT
Respiratory Care ..... RC
Russian ..... RUSS
Science ..... SCIE
Sign Language Studies: Interpreter ..... SLS
Sociology ..... SOC
Spanish ..... SPAN
Sterile Processing Technology ..... SPT
Surgical Technology ..... MST
Theatre ..... THEA
Warehousing ..... WRH
Web Development - *see Computer Information Systems*
Welding Technology ..... WLDT

Accounting

ACCT 105 Basic Accounting Procedures 3-0-3
This course will introduce students to the fundamentals of accounting; emphasizing the accounting cycle and financial statements. Financial accounting topics relating to merchandisers, inventory valuation, accounts receivable, internal control, bank reconciliation, petty cash, and current liabilities, including payroll, will also be discussed. Students will explore the benefits and use of budgets, and some limited budget preparation will be included. Excel spreadsheet use and application will be incorporated into the instruction.
NOTE: This course is designed for those students who have never had formal accounting instruction or those who need a refresher. It is required in several AAS degrees but does not carry elective credit for the AA and AS transfer degrees.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

ACCT 106 Introduction to QuickBooks 3-0-3
This course is a review of the implementation of basic accounting concepts via a computerized accounting system. Topics include: opening a company file; customer and vendor maintenance; recording and paying bills; recording sales and collections; payroll setup and processing; end-of-period adjustments; and financial statement preparation. This course is designed for those students who have a basic knowledge of accounting concepts.
NOTE: The course is required in the AAS Business Management-Accounting option and the AAS Office Administration and Technology-Accounting Office Specialist Option, but does NOT carry elective credit for either AA or AS degrees. ACCT 105, ACCT 110, or Accounting experience strongly encouraged.
Semester(s) Offered: Fall, Spring, Summer
Requisite: ACCT 105 or ACCT 110 in the last five years or department approval.
Type: C

ACCT 110 Financial Accounting 4-0-4
This course introduces students to accounting as an information system that produces summary financial statements, primarily for users external to a business or other enterprise. Accounting terminology and concepts along with the analysis, recording, reporting, and interpretation of financial information are examined. Emphasis will be placed on accounting for current and long-term assets, current and long-term liabilities and stockholders' equity, as well as the preparation, interpretation, and analyses of financial statements.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-BUS 903

ACCT 111 Managerial Accounting 4-0-4
This course introduces students to the use of financial and managerial accounting information in making decisions and performing other managerial duties. Cost accumulation, allocation, analysis, control, and performance measurement are examined. Cost-volume-profit analysis, capital budgeting, incremental analysis, and financial statements topics are also explored.
Semester(s) Offered: Fall, Spring, Summer
Requisite: ACCT 110 completed in the last five years with a grade of "C" or better.
Type: T, IAI-BUS 904

ACCT 206 Individual/Business Income Tax 3-0-3
This course introduces students to federal income taxes as they relate to individuals, businesses, and other entities. Students will study income tax concepts, such as filing status, gross income, ordinary gains and losses, capital gains and losses, exemptions, deductions and expenses, business and rental properties, payroll and estimated tax, tax credits and special taxes, depreciation, partnerships, corporations, trusts, and estates. Filling out tax forms in their entirety for individuals and different types of business entities will be covered as well. In addition, students will learn how to find answers to tax questions when unique situations occur.
Semester(s) Offered: Fall
Requisite: ACCT 110 completed in the last five years with a grade of "C" or better.
Type: C

ACCT 210 Cost Accounting 3-0-3
The flow of costs involved in the two main cost systems: job order and process. Standard costing and variance analysis of direct materials, direct labor and factory overhead are covered in depth. Also included are cost-volume-profit analysis, budgeting, direct costing, contribution margin, relevant costs, joint and by-products costing, and spoilage.
Semester(s) Offered: Fall
Requisite: ACCT 111 completed in the last five years with a grade of "C" or better.
Type: T

ACCT 211 Intermediate Accounting I 3-0-3
This course builds on the theories and concepts covered in Financial Accounting. Financial Statements are emphasized and the valuation of cash, receivables, inventory, long-lived assets, intangible assets, and liabilities are explored in more detail.
Semester(s) Offered: Spring
Requisite: ACCT 110 completed in the last five years with a grade of "C" or better.
Type: T

ACCT 212 Certified Bookkeeper Review 3-0-3
The course covers the following topics: adjusting entries; payroll; depreciation; inventory; and accounting error correction. Students who successfully complete this course may sit for the Certified Bookkeeper Review exam (optional; offered through the American Institute of Professional Bookkeepers).
Semester(s) Offered: Spring
Requisite: ACCT 211 completed in the last five years with a grade of "C" or better.
Type: C

ACCT 215 Accounting for Small Businesses 3-0-3
This course emphasizes recordkeeping for a small business. Payroll and sales tax reporting are introduced and income tax reporting will be reviewed. The benefits and use of budgets, cash flow management, financial statement analysis, and internal control are examined.
Semester(s) Offered: Spring
Requisite: ACCT 206 completed in the last five years with a grade of "C" or better.
Type: C

ACCT 269 Accounting AAS Internship 0-15-3
This course is a supervised work-experience program requiring an average of 15 hours per week in an accounting focused position. If the student is already employed in an accounting position, the job may qualify for the internship but is subject to approval by the instructor. The instructor and the college's internship coordinator also provide assistance to students in finding an appropriate internship position.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Sophomore standing; ACCT 110, ACCT 111 completed in the last five years with a grade of "C" or better; minimum GPA of 3.0 in ACCT coursework.. Department consent
Type: C

Administration of Justice

AOJ 100 Intro to Administration of Justice 3-0-3
The study of the criminal justice system and its major components. The criminal justice process is described. Includes history, philosophy and current practice in the administration of justice in a democratic society.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-CRJ 901

AOJ 102 Public Safety Telecommunications 5-0-5
Students will receive instruction in all phases of public safety communications. Students who successfully complete this course will be able to perform the duties of a dispatcher for police, fire, emergency medical services, hospital, civil defense, or ambulance service units.
Semester(s) Offered: Spring
Requisite: Department consent
Type: C

AOJ 103 Introduction to Corrections 3-0-3
Organization, management and operation of correctional institutions and their role in the criminal-justice system.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T, IAI-CRJ 911

AOJ 104 Police Officer Proficiencies 3-6-6
High liability areas are created in Law Enforcement when an officer must stop and/or control resistive behavior along with rendering aid to sick or injured citizens. This course is designed to address four high civil liability areas in Law Enforcement. These civil liability areas are Firearms Training, Medical Response, Law Enforcement Driving, and Arrest Tactics.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

AOJ 105 Police Administration 3-0-3
Principles of organization and management as applied to law enforcement agencies and introduction to concepts of organizational behavior.
Semester(s) Offered: Fall
Requisite: None.
Type: C

AOJ 106 Correctional Administration 3-0-3
This course examines a myriad of issues affecting Correctional Administration and management. The course includes a review of the evolution of Management Theory and contemporary Correctional Administrative Practices. The course also includes an in-depth review of the organizational process, including policy development and budgeting, as well as the impact of the courts, media, and the community on the correctional organization.
Semester(s) Offered: Fall
Requisite: None.
Type: C

AOJ 107 Physical Fitness Skills 0-2-1
This course is a physical fitness course that prepares and educates peace officer recruits on the physical fitness, dynamics of personal health, and the physical agility needed for the entry exam by the IL State Law Enforcement and Standards and Training Board.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

Variable up to
AOJ 110 Issues in Private Security (3)-(6)-(3)
A comprehensive overview of the unique goals, objectives and management responsibilities in private security operations. Specific security functions are delineated. Extant research findings and recommendations are used to support critical thinking exercises for students. Includes case studies. Course will focus on the needs of security managers who must budget for asset protection and the criminal justice professional with public/private interface functions.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

AOJ 111 Correctional Supervision 3-0-3
The study of the principles and practice of supervision and management techniques in the American correctional system. Definitions and levels of supervision are presented; emphasis is placed on practical applications of methods of supervision. Profiles of successful correctional supervision scenarios are presented for study.
Semester(s) Offered: Spring
Requisite: None.
Type: C

AOJ 120 Foundations of Law Enforcement 3-0-3
Foundations of Law Enforcement will explore historical development, current operation, and future trends of criminal justice. Emphasis will be place on contemporary problems in the definition of the law, strategies of policing, judicial systems, sentencing strategies, correctional practices, and emerging forms of justice.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

AOJ 144 Security Officer Certification 2-0-2
This course is approved by the Illinois Department of Professional Regulation for armed security guard certification. Career orientation is accomplished. Basic criminal law, law of arrest, search and seizure, and the legal use of force are covered.
NOTE: Students who successfully complete the course and meet all requirements are certified to work as an unarmed security guard in the State of Illinois.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

AOJ 145 Introduction to Firearms 1-0-1
Introduction to the law, liability and use of handguns, and to the skills required in their care, handling and safety. Course includes both classroom and firing-range activities.

NOTE: Course may be taken by anyone who is at least 18 years old to learn how to legally and effectively use firearms. May also be used as an elective for certain degree programs. Students must have have valid firearm owner's identification (FOID) card. Department Consent required
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: C

AOJ 150 Police Officer Patrol Function 2.5-1-3
This course is designed to introduce the law enforcement officer to the various patrol functions performed by law enforcement officers. The patrol tasks are drug enforcement, crimes in progress, crime prevention, fundamentals of report writing, information sources, patrol procedure, police communications, vehicle stops and occupant control.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

AOJ 151 Policing: Methods and Ethics 3-0-3
This course is an examination of the history, current status, and/or trends in police field operations. A critical review of the extant research on police effectiveness, deployment of personnel, and delivery of services is accomplished. Police integrity standards and hard choice issues concerning police discretion, legality, and morality in police methods are delineated.
Semester(s) Offered: Fall
Requisite: None.
Type: C

AOJ 152 Police Function & Human Behav 4-0-4
This course is designed to introduce the patrol officer to the various types of behavior the officer might encounter. A critical review of why victims, witnesses, and suspects act the way they do, how the officer communicates with people, and how perception and observation affects a person's conduct. Integrity standards and issues concerning discretion, legality, and morality in police methods are considered.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

AOJ 153 Juvenile Delinquency 3-0-3
Analysis of juvenile delinquency as a social problem. Factors related to delinquency causation are considered. Includes delinquency prevention methods. The Juvenile Court System is described in operational terms.
Semester(s) Offered: Spring
Requisite: None.
Type: T, IAI-CRJ 914

AOJ 154 Juvenile Officer Certification 2-0-2
This course is designed to meet the training certification requirements to become a Juvenile Officer in the State of Illinois. Peace officers, recruits and interns are prepared with the knowledge and skills to manage problems unique to the juvenile population. Participants will take a detailed look at the updated Juvenile Court Act and its implication in the field. Juvenile gangs, substance abuse, alternative to detention, abuse, neglect, missing children, exploitation, criminal sexual assault, and more will be covered.
NOTE: Department Permission: Must be a recruit/intern in SWIC Police Academy or certified Police Officer with Illinois Training and Standards Board.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

AOJ 155 Community Policing 3-0-3
Interpersonal, intrapersonal, and life-management skills related to criminal justice work are delineated. Experiential activities are used to develop skills in human communication, conflict resolution, effective behavior, and in the appreciation of cultural diversity. Problem oriented policing strategies are delineated.
Semester(s) Offered: Spring
Requisite: None.
Type: C

Variable up to
AOJ 156 Issues in Criminal Justice (3)-(6)-(3)
Offers an in-depth study of problems facing workers in the criminal justice system. Contemporary issues will determine the course content during any particular offering.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

AOJ 160 Criminology 3-0-3
A course designed to appeal to law-enforcement officers, pre-law enforcement students, educators, civic leaders and concerned citizens who wish to gain new insights into the body of knowledge which regards delinquency and crime as social phenomena. The sociology of law, the conditions under which criminal laws develop, causes of crime and delinquency, and the control of crime and delinquency are examined within the framework of the criminal justice system and a democratic society.
Semester(s) Offered: Fall
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T, IAI-CRJ 912

AOJ 162 Intro to County Corrections 4-0-4
This unit will provide the student with an overview of the role of the sheriff and county corrections in the criminal justice system. An overview of criminal offenses commonly committed in county correctional facilities will be presented. Common activities such as booking, processing and documentation, classifications, medical services, safety and security, fingerprinting, transportation and emergency procedures will be presented and discussed.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

AOJ 164 Correctional Proficiencies 2-5-5
High liability areas are created in Law Enforcement when an officer must stop and/or control resistive behavior along with rendering aid to sick or injured citizens. This course is designed to address the high civil liability areas in corrections. These civil liability areas are Firearms Training, Medical Response, and Arrest Tactics. This unit involves instruction in the Board's 40-hour Mandatory Firearms Training Course for law enforcement officers.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

AOJ 166 Correctional Investigations 4-0-4
Offenses committed within a jail are responded to by corrections officers. Although peace officers generally conduct investigations, the corrections officer must properly protect the crime scene and evidence. This course will inform the student 1) techniques for protecting the scene; 2) identifying witnesses and assuring their availability; and 3) initial actions to identify the perpetrator. In addition, skills necessary to present effective testimony, administrative hearings, conflict resolution in a detention facility, procedures and documentation, effective report writing and dynamics of gangs will be discussed.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

AOJ 168 Correctional Sys Communication 3-0-3
This unit will provide the student with an overview of the role of the sheriff and county corrections in the criminal justice system. An overview of human behavior and the corrections function in dealing with a diverse population. Common activities such as report writing to document incidents while dealing with people during a crisis, mental health and suicide prevention, dealing with gangs, cultural responsiveness and gender responsiveness in the criminal justice system.
Requisite: None.
Type: C

AOJ 172 Intro to Court Security 3-0-3
This unit will provide the student with an overview of the role of the sheriff and county corrections in the criminal justice system. An overview of criminal and elements of offenses commonly committed in county correctional facilities will be presented. Common activities such as booking, processing and documentation, classifications, medical services, safety and security, fingerprinting, transportation and emergency procedures will be presented and discussed.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

AOJ 173 Court Security Officer Proficiencies 2-4.5-4
High liability areas are created in Law Enforcement when an officer must stop and /or control resistive behavior along with rendering aid to sick or injured citizens. This course is designed to address the high civil liability areas in court room interactions. These civil liability areas are Firearms Training, Medical Response, and Arrest Tactics. This unit involves instruction in the Board's 40-hour Mandatory Firearms Training Course for law enforcement officers.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

AOJ 174 Court Security Investigations and Functions 3-0-3
Foundation of law enforcement will explore historical development, current operation, and future trends of criminal justice in the court room environment. Emphasis will be placed on the contemporary problems in the court room setting such as definition of law, the enforcement of law, strategies of policing, judicial systems, sentencing strategies, correctional practices, and emerging forms of justice.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

AOJ 175 Court Security Communications 2-0-2
This unit will provide the student with an overview of the role of the court security officer in the criminal justice system. An overview of human behavior and the court room function in dealing with a diverse population. Common activities such as report writing to document incidents while dealing with people during a crisis, mental health and suicide prevention, dealing with gangs, cultural responsiveness and gender responsiveness in the criminal justice system.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

AOJ 201 Law For Patrol Officers 3-2.5-4
This course is designed to introduce the law enforcement officer to the Federal, State and Case laws affecting a citizen's guarantees under the fourth, fifth and sixth constitutional amendments. Emphasis will be placed on the officer's understanding of the elements of criminal, juvenile and traffic laws.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

AOJ 202 Police Civil Liability 3-0-3
An analysis of the law and trends in the highly controversial area of police-civil liability; police officers and private security personnel are liable for various forms of tortuous conduct ranging from intentional wrongs to negligence in the course of their activities. Court decisions are examined in all relevant areas of concern.
NOTE: The overall course objective is to develop strategies to reduce litigation and limit unfavorable judgments in both the public and private sectors.
Semester(s) Offered: Fall
Requisite: ENG 102 with a grade of "C" or better.
Type: C

AOJ 203 Criminal Law &Admin of Justice 3-0-3
A study of criminal law and procedure. Emphasis on the understanding of the basic elements of criminal offenses. Includes a historical study of the evolution of criminal law and its application to modern law enforcement.
Semester(s) Offered: Fall
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T

AOJ 204 Constitutional Law for Police 3-0-3
Centers on criminal procedure and its application as required by the due-process and equal-protection clauses of the Constitution. The student will be introduced to the responsibilities of a law-enforcement officer in regard to arrest, search and seizure, confessions and self-incrimination, assistance of counsel, freedom of speech, free press, the right to peaceably assemble, and civil rights legislation. The student will develop an understanding of the rules and guidelines which govern the conduct of a professional officer in enforcing both state and federal law.
Semester(s) Offered: Fall
Requisite: ENG 102 with a grade of "C" or better.
Type: T

AOJ 205 Traffic Management & Accident Analysis 3-0-3
Development of the modern transportation system, agencies involved in traffic administration and control, police-traffic engineering, education and enforcement of traffic laws are included. Principles of traffic accident investigation and reconstruction are delineated.
Semester(s) Offered: Fall
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: C

AOJ 206 Police Traffic & Crash Mgmt 2.5-0-2.5
This course is designed to develop an awareness of those components which comprise an effective traffic law enforcement effort. Knowledge and skills essential to a successful traffic crash investigation are considered.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

AOJ 238 Criminal Justice Communication 3-0-3
This course is designed for pre-service Criminal Justice students who want to improve their proficiency in communicating in a verbal or written format to a diverse population of society.
Requisite: None.
Type: C

AOJ 250 Law for Corrections 3-0-3
The course provides an in-depth view on the rights of correctional prisoners and the legal response required of correctional personnel to protect these rights. To understand what rights prisoners have requires studying the development of case law over a considerable period of time. Although there are statutory and administrative laws covering the rights of prisoners, the most important statements regarding prisoners' rights have come from decisions of appellate courts on a case-by-case basis. These decisions come from the Supreme Court and must be respected by state and federal correctional workers.
Semester(s) Offered: Spring
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: C

AOJ 251 Rules of Criminal Evidence 3-0-3
Study of basic rules of evidence applicable to criminal justice procedure. Emphasis on the question of admissibility of evidence and the practical application of procedural/substantive constitutional guarantees. Case law exceptions to the warrant requirement are explained in operational terms.
Semester(s) Offered: Fall
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: C

AOJ 252 Organized Crime 3-0-3
This course addresses in a concise manner the nature, history, and theories of organized crime, together with the criminal justice response. This includes an evaluation of the investigation, prosecution, defense, and sentencing of organized criminals to date. This course is designed, therefore, to provide a synthesis of important developments in the understanding, prevention, and criminal justice response to organized crime in our neighborhoods and our correctional institutions.
Semester(s) Offered: Spring
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: C

AOJ 255 Criminal Investigation - Case Prep. 3-0-3
Fundamentals of criminal investigation theory and practice. Crime scene to courtroom emphasis on techniques appropriate to specific crimes. Interview and interrogation techniques are included.
Semester(s) Offered: Spring
Requisite: ENG 101 with a grade of "C" or better, concurrent enrollment in or completion of AOJ 203.
Type: C

AOJ 256 Crime Scene Investigations 3-0-3
The basic course in forensic science is concerned with the application of the principles of biology, chemistry and physics to the problems of law and law enforcement. Course emphasis will range from the detailed functions of the mobile crime team to the common testing procedures of police crime laboratories. Content will be selected on the basis of contemporary needs of pre-service and in-service law enforcement personnel.
Semester(s) Offered: Spring
Requisite: AOJ 255.
Type: C

AOJ 257 Patrol Investigations 3-0-3
This course is designed to introduce the patrol officer to the skills and procedure needed for solving law violations. This course will include topics of Crimes Against Person, Crimes Against Property, Crime Scene Identification, Interview and Interrogation, Custody Arrest, Booking, Detention Facility Procedures, Fingerprinting-Rolled Impressions, Fundamentals of Investigation, Identification Procedures, Motor Vehicle Theft, and Service Calls.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

AOJ 258 Computer Forensics & Cyber Crime 3-0-3
This course is an overview of computer-related crime, cybercrime laws, and computer crime investigation including the management and custody of digital evidence. It includes an exhaustive discussion of legal and social issues, fully defines computer crime, and provides specific examples of criminal activities involving computers, while discussing the phenomenon in the context of the criminal justice system. It provides a comprehensive analysis of current case law, constitutional challenges, and governmental legislation. Organized crime and terrorism are discussed and how it relates to computer related crimes as well as more comprehensive information on processing evidence and report preparation.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: C

AOJ 261 Probation and Parole 3-0-3
Covers all phases of the correctional field and attempts to reflect a balance between theoretician and practitioner. Viewpoints on theory and practice in juvenile and adult corrections are examined extensively. The law of corrections, probation, parole, and community services to offenders are studied in detail. The point of emphasis of the course starts where the court process ends.
Semester(s) Offered: Fall
Requisite: ENG 102 with a grade of "C" or better.
Type: C

AOJ 278 Work Experience: Internship 0-25-5
A rigidly structured program that attempts to bring training and education into a more meaningful relationship. The student is expected to develop poise and confidence as a relationship is established between academic learning and work in the field. The chief executive or his designee in each participating agency will provide direct supervision. Comprehensive written reports on work and observation activities will be submitted to instructor/coordinator. Formal evaluation process will be used to record student performance.
NOTE: Recommended for all students not transferring to a senior institution. Permission of the AOJ coordinator is required to enroll. Students must have

completed 24 semester credits of AOJ-prefixed degree requirements, and ENG 102 with a grade of C or better.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

AOJ 280 Law Enforcement Transition 3-2-4
This course is designed for those (1) police officers who were employed as part-time officers and now want to become employed as full-time officers, (2) out-of-state officers seeking certification in Illinois, and (3) former Illinois officers who have not been active in law enforcement for a stipulated period. This is an 80-hour transition course and as such the purpose of the program is to reinforce previous training in critical duties and responsibilities. Additionally, the full time officer may find himself/herself less supervised than the part-time officer, thereby needing the skill and knowledge gained during this transition course to ensure the safety of the officer and the public. This reinforcement of the safety of the officer and the public is especially important in the area of liability and public contact.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

AOJ 285 Basic Arson Investigator 9.5-3-11
This course is intended for full-time Firefighter 2 personnel who have been certified in Fire Modules 1 and 2 with a background in Fire Investigation and whose governmental authority is seeking to advance them to an arson investigator position. This course is controlled by the Office of the State Fire Marshal in conjunction with the Illinois Law Enforcement Training and Standards Board. It is not open to AOJ students nor Law Enforcement personnel. This is a 200-hour program that includes 46 hours of practical training (lab).
Semester(s) Offered: Fall
Requisite: None.
Type: C

AOJ 290 Writing for Criminal Justice 3-0-3
A course designed and structured for pre-service law-enforcement students who wish to improve their proficiency in effective writing.
Semester(s) Offered: Spring
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: C

AOJ 299 Spec Topics In Admin of Justice Variable up to (4)-(8)-(4)
Varied topics in policing and/or security will be addressed in order to meet most current needs of the industry.
NOTE: Department consent and requisite varies by topic.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

Aeronautical Information Specialist

AVG 101 Evolution of the AIS 3-0-3
This course will explore the beginning, history, requirements and responsibilities of an Aeronautical Information Specialist. The course will apply FAA policies and objectives to identify, define, manage and organize the multiple work activities of an AIS. In addition, to explore and study the evolution surrounding the design, development and maintenance of Instrument Flight Procedures (IFP's) and related publications. Understand and apply the coordination and integration of IFP's in the National Airspace System (NAS) to include the collection and verification of national and international aeronautical data.
Requisite: None.
Type: C

AVG 102 Introduction and Application of Aeronautical Navigational Systems 3-0-3
An introduction to the current navigational systems primarily used by private, commercial and military aviation today. This course is designed to develop the students understanding and application of Global Positioning Systems, Very High Frequency Omnidirectional Range (VOR's, TACAN and VORTACS), Non-Directional Beacons (NDB's), Distance Measuring Equipment (DME), Localizers, (LOC) Glide Slope and Marker Beacons. This course would include a comprehensive understanding and application of aeronautical navigation systems throughout national and international airspace. Using International Civil Aviation Organization (ICAO) requirements and guidelines the course will explore regulatory applications in the aeronautical navigational spectrum.
Requisite: AVG 101 or Concurrent Enrollment in AVG 101.
Type: T

AVG 105 Introduction to Aviation Safety Management Systems 3-0-3
Safety Management Systems (SMS) introduces an evolutionary process in system safety and safety management. SMS is a structured process that obligates organizations to manage safety with the same level of priority that other core business processes are managed. This applies to both internal Federal Aviation Administration and external aviation industry organizations (Operator & Product Service Provider). SMS is the formal, top-down, organization-wide approach to managing safety risk and assuring the effectiveness of safety risk controls. It includes systematic procedures, practices and policies for the management of safety risk. (FAA Order 8000.369)
Requisite: None.
Type: C

AVG 210 Aeronautical Chart Legend Interpretation 3-0-3
A review, explanation and application of the Federal Aviation Administration National Aeronautical Navigation Services Aeronautical Chart users guide. Topics will include VFR Aeronautical Charts, Topographical Information, Hydrography, Chart Contour Relief, Helicopter route charts, Global Positioning Routes, VFR Flyway planning charts, IFR Aeronautical Charts, Oceanic Route Charts and U.S. Terminal procedures (TERPS). The course utilizes private, commercial and military operational practices that apply to worldwide navigation.
Requisite: Prior completion or concurrent enrollment in AVG 105.
Type: C

AVG 280 AIS Internship 0-6-3
This course is intended to provide the student with an opportunity to apply the science, knowledge and skills of GIS/AIS in a business environment or career area of GIS/AIS and it is the application of business knowledge education received in the technology with actual work conditions and job experience. This course can only be taken if you are performing GIS/AIS work on the job which includes but not limited to employment where GIS/AIS is used, an internship where GIS/AIS is used or where you are using GIS.AIS for volunteer project. The work can be paid or unpaid.
Requisite: None.
Type: C

Aerospace Studies

AS 101 Heritage and Values of the United States Air Force 1 2-0-2
A survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. Leadership Laboratory is mandatory for Air Force ROTC cadets and it complements this course by providing students with followership experiences and prepares them for Field Training. Classroom activity, one hour per week; Leadership Laboratory two hours per week.

NOTE: Grades earned in these courses will be computed in the student's overall grade point average. Semester credits of these courses may be included in the hours needed for graduation at the discretion of individual departmental chairpersons. Classes are held at Saint Louis University.
Requisite: None.
Type: T

AS 102 Heritage and Values of the United States Air Force 2 2-0-2
A survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems, and an introduction to communication skills. Leadership Laboratory is mandatory for AFROTC cadets, and it complements this course by providing students with followership experiences and prepares them for

Field Training. Classroom activity, one hour per week; Leadership Laboratory two hours per week. Aerospace Studies courses (AES 101 through AES 202) are basic courses designed to acquaint students with the United States Air Force and the opportunities available as an officer.
NOTE: Grades earned in these courses will be computed in the student's overall grade point average, but semester credits for these courses will not be included in the total credits for graduation.
Requisite: None.
Type: T

AS 201 Team and Leadership Fundamentals 1 2-0-2
Focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. Leadership Laboratory is mandatory for Air Force ROTC cadets and it complements this course by providing them with their first opportunity for applied leadership experiences and prepares them for Field Training. Classroom activity, one hour per week; Leadership Laboratory two hours per week.
NOTE: Grades earned in these courses will be computed in the student's overall grade point average. Semester credits of these courses may be included in the hours needed for graduation at the discretion of individual departmental chairpersons. Classes are held at Saint Louis University
Requisite: None.
Type: T

AS 202 Team and Leadership Fundamentals 1 2-0-2
Focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. Leadership Laboratory is mandatory for Air Force ROTC cadets and it complements this course by providing them with their first opportunity for applied leadership experiences and prepares them for Field Training. Classroom activity, one hour per week; Leadership Laboratory two hours per week.
NOTE: Grades earned in these courses will be computed in the student's overall grade point average. Semester credits of these courses may be included in the hours needed for graduation at the discretion of individual departmental chairpersons. Classes are held at Saint Louis University.
Requisite: None.
Type: T

Agriculture

AGRI 100 Intro to Ag Business Management 3-0-3
This course prepares students for understanding organization and structure of agricultural businesses; resource evaluation, policy development and implementation, functions of management, and laws and taxes that affect business. An in-depth study of planning, creating, organizing, operating, and managing an agribusiness. Development of a detailed business plan in the student's area of interest.
Semester(s) Offered: Spring
Requisite: None.
Type: C

AGRI 104 Ag Applications of the Computer 2-2-3
This course introduces students to computer hardware, platform environments, file manipulation, printers and the use of word processing, electronic presentations and communications, graphics, spreadsheet, and database management software; solution of agriculture data-related problems and use of prepared software and templates.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

AGRI 105 Principles of Agronomy 3-0-3
This course is a survey of the entire field of agriculture including farm production, supply business, marketing, processing, and agricultural services through each industry pathway. Scientific principles, types of business organization and how each one functions is included, along with the types of jobs available throughout the entire industry. Students will hear from guest speakers who work in all trades and facets of the agronomy sector in preparation to choose their focus of study and program mentor.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

AGRI 107 Introduction to Urban Agriculture 2-2-3
This course focuses on the adaption of agricultural principles to the urban environment, specifically the production of plant crops. Topics include: (I) urban environments and infrastructure, (II) urban crop production practices, (III) urban markets and farm management. Students will be exposed to the breadth of items that they should consider in order to be a successful urban grower.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

AGRI 110 Urban Food Production 2-2-3
This course will explore opportunities and challenges for maximizing the productivity and sustainability of urban food production systems, considering agricultural, environmental, energy, social, and economic issues. Students will examine the science and practice of urban agriculture through scientific and popular literature, case studies, online discussion, and service-learning opportunities. Production systems covered will include both outdoor (e.g., vacant lot urban farms) and controlled environment (e.g., hydroponics and aquaponics) agriculture.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

AGRI 111 Animal Science 3-2-4
The application of the science of genetics, physiology and nutrition to the improvement of the animal industries and an introduction to management and production practices. Includes animal breeds, breeding and selection; anatomy physiology and nutrition and growth; environment, health and sanitation; products and marketing; production technology and economics; animal behavior; and current issues in animal science.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T, IAI-AG 902

AGRI 119 Introduction to Natural Resources 1-2-2
An introduction to natural resources, and how they play an important part in the modern world. This course will include how resource management can assist with biodiversity and sustainability on the local/state/country/world platform will be evaluated.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

AGRI 120 Water Acquisition and Conservation 1-2-2
This course is designed to give students an understanding of the science of water, including its chemistry, its movements in the environment, and its use in agriculture. The course introduces students to traditional and alternative ways of accessing water for agricultural use, as well as methods to conserve this most precious resource.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

AGRI 121 Soil Science 3-2-4
This course presents an introduction to the chemical, physical, and biological properties of soils; the origin, classification, and distribution of soils and their influence on people and food production; the management and conservation of soils; and the environmental impact of soil use.
Semester(s) Offered: Fall
Requisite: None.
Type: T, IAI-AG 904

AGRI 135 Crop Science 3-2-4
The basic principles of plant growth, including human and environmental influences and the theoretical and practical application of agronomic principles to crop production. Includes the historical and economic importance of crop plants for food, feed, and fiber; origin, classification, and geographic distribution of field crops; environmental factors and agronomic problems; crop plant breeding, growth, development, and physiology; cropping systems and practices; seedbed preparation, tillage, and crop establishment; pests and controls; and harvesting, storing, and marketing practices.
Semester(s) Offered: Fall
Requisite: None.
Type: T, IAI-AG 903

AGRI 152 Agricultural Economics 3-0-3
An introduction to the principles of economics including production principles; production costs, supply and revenue; profit maximization; consumption and demand; price elasticity; market price determination; and competitive versus noncompetitive market models. These principles are applied to agriculture and the role of agriculture in the United States and world economies. Other topics include a survey of the world food situation; natural, human and capital resources; commodity product marketing; and agricultural problems and policies.
Semester(s) Offered: Spring
Requisite: None.
Type: T, IAI-AG 901

AGRI 198 Weed Science and Management 2-2-3
This course analyzes the science of weed ecology and management and its environmental and economic impact on agricultural practices. Identification of weed species, creation of management programs, as well as examination of future challenges in weed management at the forefront of the course. Herbicide terminology, formulations, calibration, environmental concerns, safe handling, and laws and regulations concerning herbicides.
Semester(s) Offered: Intermittently
Requisite: Successful completion of AGRI 121 and AGRI 135 or Program Coordinator consent.
Type: C

AGRI 199 Entomology Science Management 2-2-3
This course analyzes insect science and management in relation to its environmental and economic impact on human society with a focus in agricultural. Examine the biology and evolution of insects, evaluate their role in natural ecosystems, identify the basics of their physiology, development, and behavior, as well as develop and apply management strategies in relation to agricultural careers are at the core of this course.
Semester(s) Offered: Intermittently
Requisite: BIOL 151, AGRI 105, AGRI 121, AGRI 198, Concurrently enrolled in course AGRI 200 or Program Coordinator consent.
Type: C

AGRI 202 Plant Pest Management 3-1-4
This course introduces plant pest pathology and management, with an emphasis on the identification and control of common agricultural pests, including weeds, insects, and diseases. Students will explore various management strategies such as prevention, cultural practices, biological controls, and the safe and effective use of pesticides. The course will cover essential pesticide concepts including, terminology, formulations, calibration, application techniques, environmental impacts, legal regulations, and safe handling practices. By the end of the course, students will be well-prepared, to take the pesticide applicator licensure test, gaining the practical knowledge and skills needed for responsible pest management in agricultural settings.
Semester(s) Offered: Fall
Requisite: Successful completion of AGRI 121 and AGRI 135 or Program Coordinator consent.
Type: C

AGRI 203 Plant Pathology 2-2-3
This course introduces basic concepts of plant pathology and control. In this course students will grasp a basic understanding of various disorders caused by fungi, viruses, bacteria, and nematodes, in addition to environmental disease-causing agents such as temperature, moisture and more as well as evaluate how these factors contribute to the development of epidemics.
Semester(s) Offered: Intermittently
Requisite: BIOL 151, AGRI 105, AGRI 121, AGRI 198, Concurrently enrolled in course AGRI 200 or Program Coordinator consent.
Type: C

AGRI 204 Hydroponics Growing System 1-2-2
A course in hydroponic plant production that provides the practical skills and scientific concepts of growing plants in soilless growing media. A focus on food production will allow students to design, build, and experiment with hydroponic systems.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

AGRI 206 Crop Scouting 2-2-3
This is a course designed to give students an in-depth study of crop scouting procedures. Topics include seedling and mature broadleaf weeds and grasses, diseases, insects and crop injury affecting corn, soybeans, wheat, alfalfa and specialty crops.
Requisite: AGRI 121, AGRI 235 or Department Consent.
Type: C

AGRI 211 Crop Machinery & Equipment 3-0-3
Principles of choosing, operating, and maintaining machines and equipment used in production of field crops. This course incorporates mandatory OSHA Safety Awareness certification program in which successful completion results in students earning their OSHA Safety Awareness certification.
Semester(s) Offered: Intermittently
Requisite: AGRI 106, AGRI 121, AGRI 235, concurrent enrollment in AGRI 202 or Department Consent.
Type: C

AGRI 213 Soil Fertility & Fertilizers 2-2-3
Use of fertilizers for peak production at optimum cost; evaluation and comparison of different forms of macro- and micro-nutrients, their manufacture, handling, and application; plant and soil chemistry.
Semester(s) Offered: Spring
Requisite: None.
Type: C

AGRI 216 Agriculture Sales 3-0-3
This course examines the principles and techniques used in selling agricultural goods and services. Practical application and development of the skills and techniques necessary to sell agricultural products will be the primary focus.
Semester(s) Offered: Intermittently
Requisite: AGRI 100.
Type: C

AGRI 217 Agriculture Finance 3-0-3
This course is designed to give an understanding of the finance of the farming operation. Included topics are finance and credit and the uses, sources and methods of obtaining credit. Also discussed is personal money management.
Semester(s) Offered: Intermittently
Requisite: AGRI 100.
Type: C

AGRI 218 Agricultural Marketing 3-0-3
This course is an introduction to the marketing of agricultural products. The course will focus on marketing strategies, futures markets, and cash markets for both livestock and grain commodities. The course will also explore the use and application of modern technology to buy, sell, and trade agricultural commodities.
Semester(s) Offered: Intermittently
Requisite: AGRI 100.
Type: C

AGRI 219 Designing Urban Agriculture 2-2-3
This course emphasizes the design process and principles related to food production in urban environments. Lecture topics will include assessing, planning, and transforming the landscape at multiple scales from regional to neighborhood to specific site. In group discussions students will critically review readings from peer-reviewed and popular literature. Students will engage in analysis and design of an existing site to integrate multiple functions, emphasizing the permanent infrastructure and perennial vegetation.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

AGRI 220 Internship Variable up to 0-(15)-(6)
Students are placed in an internship according to their career objectives in selected agricultural industries. This allows students to experience actual working conditions and on-the-job training. Students also develop relationships that often lead to future employment. A minimum of 75 total contact hours, or approximately 5 hours per week for 15 weeks, under supervised internship and associated course requirements are required for each credit hour. This course is repeatable for additional credit. A maximum of 8 credit hours of AGRI 220 and AGRI 299 can be applied toward AAS degree completion.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

AGRI 236 Crop and Irrigation 2-2-3
Weed identification and control, cultivation and fertilization, tissue testing, monitoring pests and weed, and record keeping for crops. Introduction to irrigation, crop water requirements, water resources, supply irrigation methods, surface sprinkler irrigation, water rights and legal aspects of irrigation combining irrigation scheduling with field scouting.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

Variable up to
AGRI 299 Special Topics in Agriculture (3)-(4)-(4)
This course will cover special topics or problems in agriculture and provide students with the knowledge and ability to deal with those topics or problems in relation to their special requirements.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

Anthropology

ANTH 150 Cultural Anthropology 3-0-3
Cultural anthropology provides an introduction to the study of human culture as a mechanism that allows people to adapt and survive over generations, which focuses on the everyday lives, languages, religions, social organization, economics, political systems, and technologies of various people around the world in the past and in present times. Cultural anthropology can be a powerful tool for understanding our lives in the modern global society and for improving cross-cultural interactions. Completion of this course fulfills the Non-Western Culture requirement for graduation from Southwestern Illinois College. .
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-S1 901N

ANTH 160 Biological Anthropology 3-0-3
This course is an introduction to physical anthropology. It includes the study of human evolution, the relationship of humans to other primates both physically and behaviorally, the relationship between human evolution and the development of culture, physical variation of modern human populations, and applications of physical anthropology in medicine and forensics.

NOTE: The goal is to understand the connections between human biology, behavior, and culture through an examination of the process of evolution.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: T, IAI-S1 902

ANTH 210 Native American Cultures 3-0-3
This course examines the variety of Native American cultures. It will use an anthropological perspective to examine linkages between the cultures and their environments, their histories (written, oral and archaeological), art, religion, social structures, kinship, and political systems. Current challenges to these cultures will be examined. It is designed to give students a broad overview of indigenous cultures in North America.
Semester(s) Offered: Fall
Requisite: Eligible for ENG 101.
Type: T

ANTH 250 Introduction to Archeology 3-0-3
This course focuses on the theory and application of archaeology. Students will be concerned with interpretation of material remains of past cultures, and through the study of such evidence, attempt to recreate the history of humanity from its earliest past to determine the nature of cultural systems at different times and places. The nature of culture (material and non-material), excavation and dating techniques, major shifts in habitation patterns and subsistence techniques, and major prehistoric world civilizations are explored and emphasized.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101.
Type: T, IAI-S1 903

Variable up to
ANTH 299 Special Topics in Anthropology (4)-0-(4)
Special topics and issues in Anthropology presented through lectures, discussions, readings, and/or individual research. Topics vary each semester. Course may be taken more than once if different topics are covered.
Semester(s) Offered: Intermittently
Requisite: Sophomore standing and one course in Anthropology.
Type: T

Art

ART 101 Art Appreciation 3-0-3
This course for non-art majors is an introduction to the visual arts and is intended to foster an appreciation of our Western art heritage. The focus will be on helping students understand and consequently appreciate how visual art works are made, as well as how they function or communicate within their societal context, both past and present.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-F2 900

ART 103 Survey of Non-Western Art 3-0-3
This course is a survey of the visual arts (painting, drawing, printmaking, sculpture and architecture) in selected non-Western societies. Included are the works of Neolithic/Paleolithic man; Oceanic; African; Native American; Mezzo-American; Eastern/Far Eastern to include Islamic; India; China and Japan. Emphasis will be on artistic, cultural, social, historical, and geographic contexts of the major non-Western societies. Successful completion of this course fulfills the non-Western culture requirement at SWIC.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-F2 903N

ART 104 Art History I: Prehistoric-Gothic 3-0-3
This course is a survey of the historical progression of European and near Eastern Art covering Prehistoric, Egyptian, the Ancient New East, Aegean, Greek, Etruscan, Roman, Early Christian, Medieval, Romanesque, and Gothic art. Various samples of art from each artistic style will be critically observed and analyzed as they connect to and impact societal beliefs and norms. The course will utilize large screen projection, Power Points, DVDs, lectures, discussions, and a museum trip.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-F2 901

ART 105 Art History II: Renaissance-Modern 3-0-3
A survey of European art covering the following units: Renaissance, Baroque, Rococo, neoclassicism, and romanticism; realism, impressionism, post-impressionism, symbolism, and art nouveau; and 20th century art. The course will utilize front screen projection, DVDs, PowerPoints, lectures, discussions, and a museum trip.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-F2 902

ART 106 History of Photography 3-0-3
This course investigates the historical development of photography as an art form from 1839 to the present, including critical analysis of types of photographs and aesthetic movements in photography. Photographs are examined for their aesthetic and humanistic values, emphasizing photographers within their cultural and social contexts.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T, IAI-F2 904

ART 107 Graphic Design I 1-5-3
This course is an introduction to graphic design principles and applications, typography usage, and the creation of visual content to communicate messages. Students are expected to supply their own creative software and hardware.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

ART 108 Printmaking I 1-5-3
In this course students will be introduced to a range of fine art printmaking techniques. Methods explored will include relief, monotype, and basic etching processes. Hand printmaking concepts of drawing, design, color, layering, mark and space are emphasized along with engaging the students with problem solving through these techniques. Students will be introduced to the work of artists and the history/tradition of fine art prints.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

ART 109 Introduction to Graphic Illustration 1-5-3
This is an introductory course in Graphic Illustration based on the fine art principles of design that is intended to provide students with a studio experience in which they will become familiar with the concepts and techniques applied in illustration for comics, graphic novels, and illustrated books. Students will be exposed to a variety of traditional mediums and digital means for creating illustrations. Studio assignments will provide training in the practical applications.
Requisite: None.
Type: T

ART 110 Art & Gender 3-0-3
This course is a linear overview of the role of women artists in the history of the visual arts from medieval to modern times and the impact of these artists on the world of fine art.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-F2 907D

ART 111 Basic Design I 1-5-3
A studio course introducing an exploration of the elements and principles of two-dimensional design emphasizing the use of black and white media. The students will develop an understanding of compositional structure and their applications through a series of design related projects. The students will experiment with the use of line shape, texture, space, value and color. The course explores the possibilities and limitations of processes, materials and techniques as related to two-dimensional design in visual art.
NOTE: There is an expectation that all studio-based courses include appropriate instruction in health and safety issues relative to the methods of course materials being used.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T, IAI-ART 907

ART 112 Basic Design II 1-5-3
A studio art course reinforcing the exploration of the elements and principles of design as they relate to three-dimensional approaches. The students will develop an understanding of compositional structure and its application through a series of projects. The students will experiment with the manipulation of line, form, texture, space, light, color, time and movement. The course explores the possibilities and limitations of materials and construction methods.
NOTE: There is an expectation that all studio-based courses include appropriate instruction in health and safety issues relative to the methods of course materials being used.
Semester(s) Offered: Fall, Spring
Requisite: ART 111.
Type: T, IAI-ART 908

ART 113 Ceramics I 1-5-3
A studio course introducing clay as a medium of expression using ancient and modern forming techniques. The students will gain an understanding of hand building, wheel throwing, and alternative forming methods through application and practice. Emphasis will be placed on surface decoration through the application of stains, slips, engobes and glazes. Firing techniques including oxidation and gas reduction will be examined.
NOTE: There is an expectation that all studio-based courses include appropriate instruction in health and safety issues relative to the methods of course materials being used.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T

ART 114 Ceramics II 1-5-3
A studio course reinforcing the content of Ceramics I: approaching clay in a more personal way focusing on the development of an individual approach to the medium. Emphasis will be placed on aesthetic development and proficiency in clay forming methods, surface applications, and kiln firing techniques.

NOTE: There is an expectation that studio-based courses include appropriate instruction in health and safety issues relative to the methods of the course and the materials being used.
Semester(s) Offered: Fall, Spring, Summer
Requisite: ART 113.
Type: T

ART 116 Photography I 1-5-3
An introductory course that covers the basic principles of black and white photography including equipment selection and use, image processing (wet and/or digital darkrooms), and the aesthetic concerns as a Fine Art medium. Framing, composition and exposure control for both traditional and/or digital equipment will be covered as well as an overview of the history of photography and its content as both a commercial medium and form of artistic expression. Basic manipulation skills and output will be linked to the technology utilized.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

ART 120 Introduction to Computer Art 1-5-3
This is an introductory course in computer art based on the fine art principles of design that is intended to provide students with a studio experience in which they will become familiar with the MAC operating system. Students will be exposed to the major computer applications that support art work in the field of computer art. These include Adobe Illustrator, Photoshop, Corel Draw, Painter, Sketchbook and Poser. Studio assignments will provide training in the practical applications of each of these programs.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

ART 129 Typography 1-5-3
This course will provide a beginning study of the art of typographical design and the refined use of typography as the communication tool of the graphic designer. Lectures will focus on the historical development of letter forms and their use in the designing of various typographical pieces meant for communication. Following discussions of letter design and typeface families, creative projects will be assigned that will involve the use of letter forms as key visual components, in designs, whose purpose it is to communicate in a creative way. These assignments will provide an opportunity for students to gain practice in the unique application of text, and the letter, as a design element.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

ART 150 Drawing I 1-5-3
An introduction to the fundamental concepts and techniques of drawing using a variety of black and white media will form the core content of this course. There will be a strong emphasis on introductory perceptual drawing skills such as perspective, spatial relationships, and contrast through line and value. The students will work directly with a still life and will not be drawing from photos. Coursework includes vocabulary development, critical analysis activities and references to historic models of drawing.
NOTE: There is an expectation that studio-based courses include appropriate instruction in health and safety issues relative to the methods of the course and the materials being used.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T, IAI-ART 904

ART 200 Art Presentation and Portfolio 1-5-3
In this course students will be introduced to a range of professional techniques in presentation and in building a portfolio. Ideas explored will include digital portfolio related to individual medium on multiple platforms. Historically significant and contemporary methods of presentation of work will be discussed and researched. Students will be introduced to the work of other working artists and venues.
Semester(s) Offered: Intermittently
Requisite: One studio art class.
Type: T

ART 207 Graphic Design II 1-5-3
This course is a continuation of Graphic Design I principles and application, intermediate desktop design and publishing, electronic typography, pagination, symbol, logo, poster and publication design.
Semester(s) Offered: Fall, Spring
Requisite: ART 107.
Type: T

ART 208 Printmaking II 1-5-3
This course builds upon Printmaking I fundamentals and continues to explore a range of fine art printmaking techniques. Methods explored will include relief, monotype, and etching processes. Hand printmaking concepts of drawing, design, color, layering, mark and space are emphasized along with engaging the students with problem solving and individual expression.
Semester(s) Offered: Fall, Spring
Requisite: ART 108.
Type: T

ART 209 Graphic Illustration II 1-5-3
Introductory concepts will be continued from Introduction to Graphic Illustration as new concepts are introduced. A strong emphasis will be on perceptual drawing skills from creative character and environmental designs. Special focus will be given to invention with compositional and color studies. Historical models are referenced throughout as standards for drawing excellence. Studio assignments will emphasize preparatory research and development.
Semester(s) Offered: Fall, Spring
Requisite: ART 109.
Type: T

ART 211 Painting I 1-5-3
This course is an introduction to basic painting techniques, color principles and theory applied to the exploration of oil and/or acrylic painting media. Historic and contemporary methods will be examined and will serve as both models and standards. Skills and idea development are stressed.
NOTE: There is an expectation that studio-based courses include appropriate instruction in health and safety issues relative to the methods of the course and the materials being used.
Semester(s) Offered: Spring
Requisite: ART 111 or ART 150.
Type: T

ART 212 Painting II 1-5-3
Exploration and refinement are experiences stressed in this, a continuation of Painting I. Special emphasis is given to invention, color utilization and compositional studies. Oil painting methodologies to be explored include the indirect, alla prima and various contemporary approaches. Historical models are referenced throughout as standards for painting excellence.
NOTE: There is an expectation that studio-based courses include appropriate instruction in health and safety issues relative to the methods of the course and the materials being used.
Semester(s) Offered: Spring
Requisite: ART 211.
Type: T

ART 213 Color Theory 1-5-3
This course will provide an exploration of the fundamentals of color theory and its properties in two-dimensional and three-dimensional art. The students will attain an understanding of color systems, color concepts and their applications through a series of projects. The course will explore the possibilities and limitations of color usage in the visual arts and the development of personal color sensitivities.
NOTE: There is an expectation that all studio-based courses include appropriate instruction in health and safety issues relative to the methods of course materials being used.
Semester(s) Offered: Intermittently
Requisite: ART 111 or ART 150.
Type: T

ART 217 Photography II 1-5-3
This course is a further introduction to photography and the visual language associated with the practice and cultural uses of the discipline in fine art photography. Lectures will focus on the formal design elements of photography; from composition, color and form to camera control operations; including control of aperture, depth of field, shutter speed, and focal length; and lastly, digital or film printing output. Students will utilize their digital still-image recording devices, which may range from camera phones to digital compact to the preferred DSLR cameras or SLR film camera. Use of nontraditional cameras (Holga, Diana and pinhole) in order to expand the vision of the photographer will be encouraged.
Semester(s) Offered: Fall, Spring
Requisite: ART 116.
Type: T

ART 218 Introduction to Sculpture 1-5-3
This course is a basic introduction to sculptural materials, processes techniques and equipment. Includes a fundamental investigation of sculptural problems in the areas of modeling, casting, carving and fabrication.
NOTE: There is an expectation that all studio-based courses include appropriate instruction in health and safety issues relative to the methods of course materials being used.
Semester(s) Offered: Fall
Requisite: None.
Type: T

ART 219 Sculpture II 1-5-3
This course is a continuation of Sculpture I, approaching sculpture techniques in a more personal manner, focusing on the development of an individual approach to media. Emphasis will be placed on aesthetics related to contemporary and historical trends in sculpture. Individual projects focus on experimentation and research into the use of materials, tools and equipment appropriate to sculptural expression. Includes a fundamental investigation of sculptural problems in the areas of modeling, casting, carving and fabrication. Studio safety will be emphasized. NOTE: There is an expectation that all studio-based courses include appropriate instruction in health and safety issues relative to the methods of course materials being used.
Semester(s) Offered: Fall
Requisite: ART 218.
Type: T

ART 220 Computer Art II 1-5-3
Introductory concepts will be continued from Introduction to Computer Art I. A strong emphasis will be on perceptual skills working from 3D maquettes of objects, complete scenes, and related lighting. Historical models are referenced throughout to support traditional studio practice while using digital imaging programs.
NOTE: There is an expectation that studio-based courses include appropriate instruction in health and safety issues relative to the methods of the course and the materials being used.
Semester(s) Offered: Fall, Spring
Requisite: ART 120.
Type: T

ART 239 Advanced Typography 1-5-3
This second semester course will provide advanced instruction in the history, theory and practice of typography. Lectures will focus on the influence of visual art styles and technology on new font families that are created and introduced into the field of graphic design. Students will study best practices for using fonts that are available for their design work. Creative assignments will focus on the unique design possibilities of letterforms as images in pieces intended for mass communication.
Semester(s) Offered: Intermittently
Requisite: ART 129.
Type: T

ART 250 Drawing II 1-5-3
Introductory concepts will be continued from Drawing I as color is introduced in Drawing II. A strong emphasis will be on perceptual drawing skills from a still life. Special focus will be given to invention with color utilization and compositional studies. Historical models are referenced throughout as standards for drawing excellence.
NOTE: There is an expectation that studio-based courses include appropriate instruction in health and safety issues relative to the methods of the course and the materials being used.
Semester(s) Offered: Fall, Spring
Requisite: ART 150.
Type: T, IAI-ART 905

ART 252 Life Drawing 1-5-3
An introduction to the fundamental concepts and techniques of figure drawing using a variety of black and white and color media. Some skills and concepts explored will include: value, contour/line, space, mass/volume, form, gesture, proportion/scaling, perspective, and rendering surface qualities.
Semester(s) Offered: Fall, Spring
Requisite: ART 111, ART 150.
Type: T

ART 253 Life Drawing II 1-5-3
This course is a further exploration of the concepts and techniques of Life Drawing I using a variety of black and white and color media. Skills and concepts will build upon the following: value, contour/line, space, mass/volume, form, gesture, proportion/scaling, perspective, and rendering surface qualities. In addition, there will be exploration with anatomy, planar structure, and spatial relationships.
NOTE: There is an expectation that studio-based courses include appropriate instruction in health and safety issues relative to the methods of the course and the materials being used.
Semester(s) Offered: Fall, Spring
Requisite: ART 252.
Type: T

ART 290 Studio in Sculpture 1-5-3
This course is a continued exploration of sculptural materials, processes techniques and equipment. Emphasis will be placed on idea development and gaining proficiency in the selection, use and manipulation of sculptural materials and processes. Continued emphasis will be placed on studio safety. The course of study is preparation for scholastic continuation in sculpture.
NOTE: There is an expectation that studio-based courses include appropriate instruction in health and safety issues relative to the methods of the course and the materials being used.
Semester(s) Offered: Intermittently
Requisite: ART 219.
Type: T

ART 291 Studio in Ceramics 1-5-3
A studio course reinforcing the content of Ceramics II: approaching clay as a self-directed course of study further focusing on the development of an individual approach to the medium. Emphasis will be placed on continued aesthetic development and proficiency in clay forming methods, surface applications, and kiln firing techniques. The course of study is preparation for scholastic continuation in ceramics.
NOTE: There is an expectation that studio-based courses include appropriate instruction in health and safety issues relative to the methods of the course and the materials being used.
Semester(s) Offered: Fall, Spring, Summer
Requisite: ART 114.
Type: T

ART 292 Studio in Drawing 1-5-3
Continuation of Drawing I and II. Emphasis will be on individual direction, special problems, life drawing, and research.
Semester(s) Offered: Fall, Spring, Summer
Requisite: ART 250.
Type: T

ART 294 Studio in Painting 1-5-3
A continuation of Painting II with more emphasis on personal expression and artistic development.
Semester(s) Offered: Fall
Requisite: ART 212.
Type: T

ART 296 Studio in Graphic Illustration 1-5-3
Continuation of Graphic Illustration I and II. Emphasis will be on creating models for objects and model set design with the intent of using as visual preparatory materials for 2D illustration.
Semester(s) Offered: Fall, Spring
Requisite: ART 109, ART 209.
Type: T

ART 297 Studio in Life Drawing 1-5-3
This course is a continuation of Life Drawing I & II. Emphasis will be on individual artistic growth concerning different mediums, concepts, research and special problems.

NOTE: There is an expectation that studio based courses include appropriate instruction in health and safety issues relative to the methods of the course and the materials being used.
Semester(s) Offered: Fall
Requisite: ART 253.
Type: T

ART 298 Studio in Photography 1-5-3
This course is a more focused approach to aspects of photography and the visual language associated with the practice and cultural uses of the discipline in fine art photography. Lectures will focus on the deeper understanding of the formal design elements of photography; from composition and form to camera control operations; studio lighting techniques in portraiture and small product. Students will utilize their digital still-image recording devices preferred DSLR cameras or SLR film camera.
Semester(s) Offered: Fall, Spring
Requisite: ART 217.
Type: T

ART 299 Special Topics in Art Variable up to (4)-(5)-(4)
An in-depth study of various areas in art presented through lectures, discussions, and/or individual research by the students. Topics will vary. May include travel/study activities.
Semester(s) Offered: Intermittently
Requisite: ART 111.
Type: T

Astronomy

ATY 101 Astronomy 3-2-4
A one-semester course covering the fundamentals of descriptive astronomy. Topics include identification of heavenly bodies, astronomical instruments, cosmology, the composition of the universe, time, and the solar system.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Math placement into MATH 97 or higher; Eligible for ENG 101 .
Type: T, IAI-P1 906L

Aviation Maintenance Technology

AVMT 121 Aircraft Systems I 2-2-3
This airframe course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for the topics in: aircraft instrument systems, communication and navigation systems, and water & waste systems.
Requisite: Eligible for ENG 101.
Type: C

AVMT 122 Aircraft Systems II 2-2-3
This airframe course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for the topics in: flight controls, airframe inspections, aircraft fuel systems, ice and rain control systems, and rotorcraft fundamentals.
Requisite: None.
Type: C

AVMT 126 Aircraft Structures I 2-2-3
This airframe course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for the topics in: non-metallic structures.
Requisite: Eligible for ENG 101.
Type: C

AVMT 127 Aircraft Structures II 2-2-3
This airframe course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for the topics in: metallic structures.
Requisite: None.
Type: C

AVMT 131 Aircraft Electrical I 2-2-3
This airframe course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for the topics in: aircraft electrical systems.
Requisite: Eligible for ENG 101.
Type: C

AVMT 132 Aircraft Electrical II 2-2-3
This airframe course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for the topics in: aircraft electrical systems and environmental systems.
Requisite: Eligible for ENG 101.
Type: C

AVMT 136 Aircraft Components I 2-2-3
This airframe course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for the topics in: hydraulic and pneumatic systems and airframe fire protection systems.
Requisite: Eligible for ENG 101.
Type: C

AVMT 137 Aircraft Components II 2-2-3
This airframe course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for the topics in: landing gear systems.
Requisite: Eligible for ENG 101.
Type: C

AVMT 140 Materials, Processes & Fabrication 2-2-3
This general course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for the topics in: fluid lines and fittings, aircraft materials, hardware, and processes, and inspection concepts and techniques.
Requisite: Eligible for ENG 101.
Type: C

AVMT 145 Basic Electricity & Technology 2-2-3
This general course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for topics in: fundamentals of electricity and electronics, weight and balance.
Requisite: Eligible for ENG 101.
Type: C

AVMT 150 Fundamentals & Operations 2-2-3
This general course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for topics in: aircraft drawings, ground operations and servicing, and mathematics.
Requisite: Eligible for ENG 101.
Type: C

AVMT 155 Regulations & Science 2-2-3
This general course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for topics in: cleaning and corrosion, regulations, maintenance forms, records, and publications, physics for aviation, and human factors.
Requisite: Math placement into MATH 97 or higher; Eligible for ENG 101.
Type: C

AVMT 157 Propulsion Systems I 2-2-3
This powerplant course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for topics in: turbine engines and turbine engine air systems.
Requisite: Eligible for ENG 101.
Type: C

AVMT 158 Propulsion Systems II 2-2-3
This powerplant course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for topics in: ignition and starting systems.
Requisite: Eligible for ENG 101.
Type: C

AVMT 171 Powerplant Systems I 2-2-3
This powerplant course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for topics in: engine fire protection systems, lubrication systems, reciprocating engine induction and cooling systems, and engine exhaust and reverser systems.
Requisite: Eligible for ENG 101.
Type: C

AVMT 172 Powerplant Systems II 2-2-3
This powerplant course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for topics in: engine fuel and fuel metering systems.
Requisite: Eligible for ENG 101.
Type: C

AVMT 176 Powerplant Components I 2-2-3
This powerplant course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for topics in: propellers.
Requisite: Eligible for ENG 101.
Type: C

AVMT 177 Powerplant Components II 2-2-3
This powerplant course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for topics in: engine instrument systems and engine electrical systems.
Requisite: Eligible for ENG 101.
Type: C

AVMT 186 Reciprocating Engine Maintenance I 2-2-3
This powerplant course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for topics in: reciprocating engines.
Requisite: Eligible for ENG 101.
Type: C

AVMT 187 Reciprocating Engine Maintenance II 2-2-3
This powerplant course is designed to cover the knowledge, risk management, and skills set forth by the FAA ACS for topics in: reciprocating engines and engine inspection.
Requisite: Eligible for ENG 101.
Type: C

AVMT 299 Special Topics in Aviation Maintenance Variable up to (4)-(4)-(4)
This course will cover special topics or problems in the aviation maintenance field and provide students with the knowledge and ability to deal with those topics or problems in relation to their special requirements.
Requisite: None.
Type: C

Aviation Pilot Training/ Aviation Management

AVIA 101 Private Pilot Flight Theory 4-0-4
An introductory course designed to provide the student with the basic theory of flight, aircraft design and aircraft control. This course also introduces basic meteorology, pilotage, dead reckoning and electronic navigational skills, the flight computer, cross country planning along with the Federal Aviation Regulations that pertain to private pilots.

NOTE: At the completion of this course, the student will have gained the knowledge and skills required to successfully pass the Federal Aviation Administration Private Pilot Airplane written exam.
Requisite: None.
Type: C

AVIA 102 Flight Training Private Part I 2-0-2
Flight instruction in pre- and post-solo phases of private pilot training. Instruction on specific procedures and maneuvers will prepare the applicant for solo flight in the local area.
Requisite: Concurrent enrollment in or completion of AVIA 101, AVIA 103.
Type: C

AVIA 103 Simulator Private 1-0-1
During this course the student will train individually with the instructor in acquiring an operational introduction of the primary aircraft maneuvering skills along with mastering many of the flight operations needed prior to conducting the first solo flight. In addition, the student will develop the ability to control the aircraft solely by reference to flight instruments. He/she will also learn the operation and utilization of basic electronic navigational systems for cross country flight operations.
Requisite: None.
Type: C

AVIA 104 Flight Training Private Part II 3-0-3
Instruction on specific procedures and maneuvers that will prepare the applicant for cross country, night flight and FAA Private Pilot certificate.
Requisite: AVIA 102.
Type: C

AVIA 105 Intro to Civil Aviation Ops & Safety 3-0-3
An in-depth study of the structure of Civil Aviation through the examination of Commercial Air Carrier Operations. Specific requirements of the air carrier's management structure and operating guidelines under the Federal Aviation Administration (FAA) are introduced. Airworthiness specifications, maintenance program structure, practices and safety management systems covered under Part 121 of the Federal Aviation Regulations are reviewed.
Requisite: None.
Type: C

AVIA 108 Aviation History 3-0-3
A chronological review of the history of aviation beginning with the first balloon flight in 1783 continuing through the development of the modern turbofan jet transport airplane. This course covers the advancement of aircraft through the technological research by the military and space flight developments.
Requisite: None.
Type: C

AVIA 111 Private Pilot Flight Theory Helicopter 3-0-3
AVIA 111 is an introductory course designed to provide the student with the basic theory of helicopter flight operations, aircraft design, components, aerodynamics, and safe flight operations. This course also introduces the meteorological aspects related to flight, weather reports, forecasts and data available to the flight. The student will receive training to develop proficiency in local and cross country VFR flight operations utilizing proper aircraft operation and performance data. The student will also become familiar with the Federal Aviation Regulations that govern flight operations.
NOTE: At the completioN of this course the student will have gained the required knowledge to successfully pass the FAA knowledge exam for Private
Pilot Helicopter.
Requisite: None.
Type: C

AVIA 112 Flight Training Private Helicopter Part I 2-0-2
During this course the student develops the ability to conduct the first solo flight operation. The student will receive instruction on ground operations, basic flight maneuvers, in-flight emergencies, flight using ground references, takeoffs, traffic patterns and landings.
Requisite: Concurrent enrollment in or completion of AVIA 111.
Type: C

AVIA 113 Simulator Private Helicopter 1-0-1
During this course the student will train individually with the instructor in acquiring an operational introduction of the primary aircraft maneuvering skills. In addition the student will master many of the flight operations needed prior to conducting the first solo flight. He/She will also practice emergency procedures to a level of proficiency before solo flight.
Requisite: None.
Type: C

AVIA 114 Flight Training Private Helicopter Part II 2-0-2
During AVIA 114, the student will receive instruction in an all operations and procedures required at the Private Pilot level. Training will include local and cross-country flights, operations into unfamiliar airport, auto rotation landing procedures, confined areas, pinnacle operation and night operations.
NOTE: At the completion of the course the student must develop the ability to successfully accomplish the practical FAA test.
Requisite: Concurrent enrollment in or completion of AVIA 111 and AVIA 112.
Type: C

AVIA 122 Aircraft Systems and Components 2-0-2
An in-depth study of the systems installed on single-engine general aviation aircraft certified under FAR Part 23. Subjects include aircraft certification, construction, flight controls, engine design and operation, fuel systems, basic hydraulics, electrical systems, instruments and landing gear. This course is designed to provide flight students and certified pilots a thorough understanding of systems and prepares the individual for the advanced AVIA 222 Transport Aircraft Systems course.
Requisite: None.
Type: C

AVIA 126 UAS Pilot Certification 1-0-1
An introductory course designed to provide the student with the training required to successfully accomplish the Federal Aviation Administration Unmanned Aircraft Systems knowledge exam. This course provides the student with an in-depth knowledge of the Federal Aviation Regulations along with law enforcement and privacy issues governing Unmanned Aircraft Systems. In addition he//she will receive classroom training covering airspace requirements, weather, weight and balance and safety management considerations.
Requisite: None.
Type: C

AVIA 131 Air Traffic Control Systems 3-0-3
This course outlines the development of the Air Traffic Control system along with many of the FAA rules and regulations governing visual and instrument flight. This course includes a review of the intricate procedures, rules, systems and phraseology used today for controlling air traffic and provides a brief look at future requirements in the domestic and international arena. This course is a basic systems course providing current and future pilots, air traffic controllers and individuals pursuing a career in aviation, a background in the National Airspace System. Normally complemented by a field trip to a local air traffic facility.
Requisite: None.
Type: C

AVIA 133 Human Factors in Aviation 3-0-3
Human factors in aviation consist of a study of the physiology of flight and related operations in aviation. This course provides an in-depth study of the human element and how we interact with the various factors that affect safety and performance.
Requisite: None.
Type: C

AVIA 141 Federal Aviation Regulations & Law 3-0-3
A study of the Federal Regulations under the Title 14 Code of the Federal Register that regulates Civil Aviation. Applicable parts of the Federal Aviation Regulations that include Definitions, General Aviation, Commercial Aviation, Training Requirements along with the National Transportation Safety Board Reporting Requirements are reviewed. Enforcement actions taken in aviation and the analysis of aviation regulatory environments such as rule making are also included.
Requisite: AVIA 101.
Type: C

AVIA 151 Commercial Pilot Flight Theory 3-0-3
An advanced course preparing the student for the commercial pilot written examination. Advanced instruction on weight and balance, advanced meteorology, flight computer, navigation and radio, federal aviation regulations and aircraft systems. Advanced use of computers for weather and flight planning is emphasized. To complete this course the student is required to take the FAA commercial pilot written examination.
Requisite: AVIA 101.
Type: C

AVIA 153 Simulator Intermediate 1-0-1
During this course the student will continue to develop proficiency in execution of the required flight operations in preparation for the completion of training for the Private Pilot Certificate. Emphasis will be placed on related visual reference and instrument references operations for continued development of the basic attitude instrument flight skill proficiency requirements. The student will also develop his/her ability to conduct additional in-depth navigational functions utilizing VOR and Global Positional navigational systems with emphasis on the Garmin GNS 530 Global Navigation System.
Requisite: AVIA 103.
Type: C

AVIA 154 Flight Training, Commercial I 3-0-3
Flight training that consists of both dual instruction and pilot in command time under the direction of the FAA Certified Flight Instructor. The Commercial Pilot applicant will gain in-depth training on commercial operations that will increase proficiency and operational knowledge while operating technologically advanced aircraft.
Requisite: Department consent
Type: C

AVIA 155 Flight Training, Commercial II 2-0-2
Instruction on specific procedures and maneuvers that will prepare the applicant for an FAA Commercial Pilot License.
NOTE: This course is based on the applicant obtaining an FAA Instrument Rating before enrolling in this course.
Requisite: Department consent
Type: C

AVIA 160 Aviation Management I 3-0-3
Introductory course in air transportation management that introduces the characteristics, scope and economic significance of the aerospace industry and its major segments. Provides an historical perspective of the U.S. airlines, air transportation, regulators and associations and the general aviation industry. Includes a study of the roles played by federal agencies that interface with the air transportation industry. The Department of Transportation, the Federal Aviation Administration and the National Transportation Safety Board.
Requisite: None.
Type: C

AVIA 161 Commercial Pilot Flight Theory Helicopter 3-0-3
An advance course that prepares the student to successfully complete the Commercial Helicopter Knowledge Exam. Subject matter includes: flight operations, aviation weather, emergency procedures and flight maneuvers. Instruction also includes advanced aerodynamics, engine operations, instruments, the flight environment, safe airport operations, communications, regulations, airspace, advanced meteorology, aircraft performance, charts and aeronautical decision making. The course also includes advanced air navigation, flight planning, safe cross-country flight operations and flight related hazards. The student will develop the ability to make quick, decisive and mature decisions in normal flight as well as in emergency situations.
Requisite: AVIA 111, AVIA 112, AVIA 114, AVIA 211 and AVIA 212.
Type: C

AVIA 163 Simulator Intermediate Helicopter 1-0-1
During this course the student will develop proficiency in execution of the required flight operations for the Instrument/Commercial Pilot Certificate. Emphasis will be placed on the related visual reference maneuvers and instrument reference operations for continued development of the basic attitude instrument flight skill proficiency requirements. The student will also develop his/her ability to conduct additional in-depth navigational functions utilizing VOR and Global Positioning Navigational systems with emphasis on the Garmin Navigational System.
Requisite: AVIA 113 or hold a Private Pilot Rotary Wing Pilot Certificate.
Type: C

AVIA 201 Instrument Flight Theory 4-0-4
A complete study of instruments, systems, advanced meteorology, instrument-flight charts, clearance shorthand, IFR planning, approach procedures, IFR regulations, and data related to instrument flight. To complete this course the student is required to take the FAA instrument pilot written examination.
Requisite: AVIA 101.
Type: C

AVIA 202 Flight Training Instrument 3-0-3
The student is introduced to all phases of instrument flying such as straight and level, climbs, turns, descents, recovery from unusual attitudes, communications, navigation, holding procedures, approaches and missed approach procedures. The training within this course is primarily conducted in the aircraft with specific segments completed in a simulator under the guidance of the instructor.
Requisite: AVIA 201, AVIA 203.
Type: C

AVIA 203 Simulator Instrument 1-0-1
During this course the student will become familiar with the instrument flight enroute and approach procedures required of an instrument rated pilot. The student will perform a series of instrument holds, VOR, nondirectional beacon and instrument landing system approaches in a BATD flight trainer.
Requisite: AVIA 103, AVIA 153.
Type: C

AVIA 205 Garmin GNS 430 VFR Operations 0.5-0-0.5
This course will introduce the student operating under visual flight rules to the operational concepts, terminology and user functions of the worldwide Global Positioning System for aircraft in-flight navigation. Students will become familiar and proficient with the features, controls, range displays, menus, flight planning and navigational source displays along with the user functions of the VHF communication radio and VOR function of the Garmin GNS 430 system.
Requisite: None.
Type: C

AVIA 207 Garmin G 1000 System Training 0.5-0-0.5
This course consists of a system overview of the components, line replaceable units and functional displays of the Garmin G1000 Integrated Flight Display and Global Navigational System for both VFR and IFR pilot operations. Instructional topics include the function of each LRU and the data that it provides for the integrated Primary and Multi-Function Flight Displays. Instructional topics also cover the data input sources for the G1000 integrated system and functional inputs to the panel displays.
Requisite: None.
Type: C

AVIA 208 Simulator-Garmin GNS 1000 VFR 0.5-0-0.5
This course consists of eight hours of VFR operational training for the Garmin GNS 1000 Global Navigational System. The student will become familiar with the operation of the GNS 1000 along with the interpretation of aircraft operational and flight data displayed on the Primary and Multi-Function displays. The student will develop competency in operation of the GNS 1000, menus and menu pages that contain the operational functions of the GNS 1000. The student will also become competent in aircraft control by reference to instrumentation as displayed on the Primary Flight Display and Multi-Function Flight Displays. Both terminal and cross country operations will be covered. Instructional topics will also cover emergency procedures and system resolution.
Requisite: AVIA 207.
Type: C

AVIA 209 Simulator-Garmin GNS 1000 IFR 0.5-0-0.5
This course consists of eight hours of IFR operational training for the Garmin GNS 1000 Global Navigational System. The student will become proficient in the operation and function of the GNS 1000 system that includes Waypoint storing or deletion, flight plan development, RAIM prediction, vertical navigation, holding, GPS approaches, ILS approaches, VOR approaches and missed approach procedures.
Requisite: AVIA 208.
Type: C

AVIA 211 Instrument Flight Theory Helicopter 3-0-3
The purpose of this course is to develop the student understanding of flight instruments, human factors and safe and efficient operation under instrument flight rule operations. Training also focuses on Instrument navigation, approaches, enroute operations along with the air traffic control system. Federal Regulations for instrument flight, helicopter Instrument operations, Aviation Weather along with the recognition of critical weather conditions are also a major area of study.
Requisite: AVIA 111, AVIA 112, AVIA 114 or hold a Private Pilot Rotary Wing Pilot Certificate.
Type: C

AVIA 212 Flight Training Instrument Helicopter 3-0-3
This course prepared the student for the instrument rating through two stages of training. During Stage l the student will receive instruction on preflight preparation, preflight procedures, air traffic control clearance and procedures, flight by reference to instruments, navigation systems and instrument approach procedures. Stage ll will provide instruction on Instrument procedures, enroute procedures and in-flight emergency.
NOTE: At the completion of this course the student must develop the ability to successfully accomplish the FAA practical test.
Requisite: AVIA 211 and hold a Private Pilot Rotary Wing Pilot certificate. Department consent
Type: C

AVIA 213 Instrument Training - Part I 1.5-0-1.5
This is a 20-hour lgggable training course in a Flight Device with an FAA-Certified Flight Instructor. The time logged in this course applies toward the FAA requirements of FAR Part 61.65(e)(2) instrument rating.
Requisite: Department consent
Type: C

AVIA 214 Instrument Flight Training - Part II 1.5-0-1.5
An equivalent training credit course. This course is designed to provide the student equivalent credit for the completion of the Instrument Pilot Flight Certification after the student completes the AVIA 213 20-hour simulator course. AVIA 214 will grant the student equivalent credit for the completion of the Instrument Flight Training resulting in the issuance of the FAA Airplane Instrument Rating.
Requisite: AVIA 213.
Type: C

AVIA 216 Advanced Instrument Approaches 1-0-1
This course is designed to provide the student with a review of VOR, GPS, and ILS approaches and to gain measurable proficiency in the execution of Localizer Back Course Approaches, DME Arc Approaches and Global Positioning System Approaches.
NOTE: This course can be applied toward the 50-hour simulator allowance authorized by FAR Part 61.129 (i)(1) for the Commercial Pilot Airplane Certification.
Requisite: Department consent
Type: C

AVIA 217 Instrument Departures and Arrivals 1-0-1
This course enhances the student's ability and experience to perform published standardized instrument Departure Procedures and Standard Instrument Arrival Procedures while transitioning to and from the enroute flight phase. The student will spend a minimum of 10 hours with an FAA-Certified Instrument Flight Instructor in an FAA-Approved Flight Training Device conducting simulated instrument flight conditions.
NOTE: This course can be applied toward the 50-hour simulator allowance authorized by FAR Part 61.129(i)(1) for the Commercial Pilot Airplane Certification.
Requisite: Department consent
Type: C

AVIA 220 Instrument Currency and Review 0.5-0-0.5
A multi-functional eight-hour course designed to review Instrument Flight Operations. This course consists of four hours of loggable dual instrument review in an FAA-Certified Flight Training Device that covers holding, course intercepts and tracking through use of navigational systems, non-precision and precision approach procedures. A written and oral review of the Instrument Operations and Federal Regulations that pertain to instrument flight will be included. This course can serve to provide proficiency prior to a corporate or air carrier interview simulator check or to fulfill instrument currency and proficiency.
Requisite: Department consent
Type: C

AVIA 221 Airline Simulator Transition 2-0-2
During this course the student will be introduced to initial training in a Crew Concept Flight Officer Environment of Pilot Flying, Pilot Monitoring operating under Part 121 of the Federal Aviation Regulations. He/She will be trained and required to perform specific duties related to the assigned pilot position. Emphasis is placed on crew coordination and Crew Resource Management in a multi-position crew operation.
Requisite: Student must hold an FAA Airplane Category Commercial Instrument Multi-Engine Pilot Certification or completion of AVIA 155, AVIA 201, and AVIA 270.
Type: C

AVIA 222 Transport Aircraft Systems 3-0-3
Transport Aircraft Systems is a General Familiarization course similar to an airline ground training course based on the systems incorporated on the Bombardier CRJ 700 or Embraer ERJ 145 Regional Jetliner. (Consult with the program coordinator regarding the type of aircraft taught during the planned enrollment semester). The Transport Aircraft systems course is designed for individuals who are planning a career in Commercial Aviation as a pilot or maintenance technician and desire to gain an in-depth understanding of the systems incorporated on FAR Part 25 aircraft. Subject areas covered include aircraft construction, air-conditioning, pressurization, electrical, flight controls, hydraulics, landing gear, pneumatics, fuel systems, ice and rain protection, navigation, fire protection, auxiliary power and power plants.
Requisite: Department consent
Type: C

AVIA 226 Advanced UAS Professional Pilot Certification 4-0-4
AVIA 226 is an expanded Professional level Commercial UAS course designed to provide the student with advanced in-depth training designed to satisfy a professional level of UAS operational competency. The student will meet the Federal Aviation Administration standards required to successfully accomplish the Unmanned Aircraft Systems knowledge exam. This course provides the student with an expanded operational knowledge of the Federal Aviation Regulations, Meteorology, Airspace, Human Factors, Airport Operations, Weight and Balance, Aeronautical Charts and Safety Management Systems related to UAS operations. FAA programs such as Aeronautical Decision Making and Safety Management Systems are integrated into the Human Factors concepts that relate to accidents and incidents. Student will also receive training in civil law enforcement and privacy issues governing Unmanned Aircraft Systems. This course also includes a flight operations segment that provides the student the ability to gain basic flight operations proficiency. In addition, an orientation to photography and video equipment is also included.
Requisite: None.
Type: C

AVIA 232 Air Traffic Controller Training 3-0-3
Preparatory Course in fundamentals of Air Traffic Control and the National Airspace System. Students are introduced to the intricate procedures, rules, systems and phraseology used today for controlling air traffic in the domestic and international arena. This course is complimented by one or more field trips to local traffic facilities.
Requisite: AVIA 131.
Type: C

AVIA 233 Intro to Aviation Labor Law 3-0-3
A study of the general elements concerning the process of United States Labor & Management relations in the Aviation and Aerospace Industry with other emphasis on elements of the industry covered under intrastate commerce regulations. The course is designed to provide a broad overview of two major federal labor laws utilized in the aviation labor environment; the Railway Labor Act and the National Labor Relations Act. The course will move from a survey of the historical, legal, and structural environments to a close examination of negotiations, administration and major content of the labor agreement.
Requisite: None.
Type: C

AVIA 237 Human Resources in Aviation 3-0-3
For the first time in the history of the United States, the workplace is becoming more generationally diverse than ever before. According to the Bureau of Labor Statistics, for the first time, there are five generations working together in the workforce. It is possible to have a 60+-year-olds working beside 20-year-olds and recent college graduates supervising employees old enough to be their parents. Each of these definable categories has different core values, substantially impacting the workforce. Understanding and appreciating each generation's different values, attitudes, expectations, needs, and motivations, can make it more challenging to manage and integrate

everyone into a cohesive corporate culture. Each generation works, thinks, trains and communicates differently. This course is designed to identify and understand those core values and develop an understanding of basic communication predicted on a single trait of all categories, how body language works towards effective communication. This class is designed to make the student aware of the generational core values, how to interact in a diverse setting and how to utilize body language for effective communication.
Requisite: None.
Type: C

AVIA 240 Aircraft Dispatcher Practical I 3-0-3
This course prepares the student for the FAA Dispatcher computer test to include: Regulations, Equipment, Navigation & Facilities, Aerodynamics, Performance, Weight and Balance, Flight Operations, Emergencies, Hazard & Flight Physiology, Meteorology & Weather Service, based on the Federal Aviation Regulations, ASA and Gleim Test Prep Books.
Requisite: AVIA 101, AVIA 131, AVIA 141, AVIA 201, AVIA 260 or equivalent transfer credit in each; concurrent enrollment in AVIA 241. Department consent
Type: C

AVIA 241 Aircraft Dispatcher Practical II 3-0-3
This course is designed to prepare the student for the FAA oral/practical exam to include: Flight Planning/Dispatcher Release, Preflight, Takeoff and departure, Inflight Procedures, Arrival, Approach and Landing Procedures, Post Flight Procedures, Abnormal and Emergency Procedures and Practical Dispatch Applications.
Requisite: AVIA 101, AVIA 131, AVIA 141, AVIA 201, AVIA 260 or equivalent transfer credit in each; completion of or concurrent enrollment in AVIA 240. Department consent
Type: C

AVIA 251 Flight Instructor Theory 3-0-3
An introduction to the fundamentals of flight instruction. A study of the performance and analysis of flight-training maneuvers. Prepares the pilot for the flight instructor written examination.
Requisite: AVIA 151, AVIA 201.
Type: C

AVIA 252 Flight Training - Instructor 3-0-3
Flight instruction in preparation for the Flight Instructor Certificate. The material studied in AVIA 251 is applied in this course.
Requisite: Department consent
Type: C

AVIA 254 Flight Train-Instrument Instructor 3-0-3
Flight instruction in preparation for the addition of an instrument instructor rating to a flight instructor certificate.
Requisite: Department consent
Type: C

AVIA 255 Flight Train-Multi Engine Instructor 3-0-3
Flight instruction in preparation for the addition of a multi-engine rating to a flight instructor certificate.
Requisite: Department consent
Type: C

AVIA 260 Aviation Meteorology 3-0-3
This course provides current and future pilots an in-depth look at basic meteorological fundamentals. Discover the driving forces behind the global weather picture and the impacts on aviation pre- and in-flight weather. Subject matter covers basic atmospheric dynamics, weather chart analysis, storm structure, flight weather hazards and aviation weather products. The course has interactive lab activities including a comprehensive flight weather evaluation.
Requisite: None.
Type: C

AVIA 261 Aviation Management II 3-0-3
Undergraduate course in airline management that builds on the AVIA 160 Aviation Management I (Introduction to Air Transportation). This course provides an in-depth analysis of the airline characteristics, scope and economics focusing on airline management technical tools and management functions. Provides an historical perspective of the U.S. airlines, air transportation and regulators and associations. Familiarizes students with the US airline industry, management, organization and studies forecasting methods, marketing, scheduling, fleet planning, financing and labor relations. Examines basic management functions of planning, organizing and directing with a focus on airline management.
Requisite: AVIA 160.
Type: C

AVIA 262 Aviation High Altitude Meteorology 3-0-3
Aviation High Altitude Meteorology consists of a study of high altitude weather systems and phenomena that exists primarily above 25,000 feet and the resultant effects on surface weather features. This course provides an overview of general atmospheric meteorology and climatology on a global basis encountered during enroute and terminal flight operations primarily by flight crews utilizing turbine aircraft. An in-depth study of obtaining global weather conditions and forecasts for pilots is also included.
Requisite: AVIA 260.
Type: C

AVIA 263 Flight Training Commercial Helicopter Part I 2-0-2
During this course the student will initially refresh and reinforce helicopter maneuvers learned during the Private Pilot Training. The student will receive advanced instruction on ground operations, basic flight maneuvers, in-flight emergencies, flight using ground references, takeoffs, traffic patterns and landings. The student will also begin cross country flight operations for the commercial certificate.
Requisite: AVIA 161 and AVIA 212 or consent of the coordinator.
Type: C

AVIA 264 Mgmt of Aircraft Maintenance 3-0-3
A comprehensive overview of the structured aircraft maintenance and engineering programs established by the aircraft manufacturer and certified by the Federal Aviation Administration for Civil Aviation. Areas of emphasis include maintenance program development, maintenance documentation, the role of engineering, maintenance, maintenance support, quality control, reliability and safety within the program. This course provides the student with an overall understanding of the maintenance programs required for aircraft operating under FAR Part 121 in the commercial air carrier fleets.
Requisite: None.
Type: C

AVIA 265 Flight Training Commercial Helicopter Part II 2-0-2
This course continues the Commercial Pilot Flight training with student training of Commercial maneuvers and operations as directed by their Instructor Pilot. Continued instruction will provide additional local and flight operations training to unfamiliar airports. Pinnacle and platform operations along with soft and short-field take-off and landing procedures and night operations will be accomplished. At the end of this course the student will be ready to complete the FAA check ride for the Commercial Rotary Wing Pilot Certificate.
Requisite: AVIA 263.
Type: C

AVIA 266 Airport Planning and Management 3-0-3
A comprehensive examination of the management and operation of civil airports. Areas of emphasis include master planning. Federal Aviation Regulations dealing with airport operations, environmental issues, land use planning, airport capacity and delay, access factors, economic impacts, financial analysis and budgeting systems, security, liability, maintenance, professional qualifications and public relations.
Requisite: AVIA 101.
Type: C

AVIA 269 Multi-Engine Flight Theory 1.5-0-1.5
An in-depth study of the fundamentals of multi-engine flight operations and aerodynamics. During this course the student will become familiar with high performance aircraft engine operation, electrical systems, fuel systems, landing gear systems (both hydraulic and electric), pressurization and aircraft performance calculations. A review of normal, abnormal, and emergency procedures required for multi-engine instructor and multi-engine ATP are accomplished.
Requisite: AVIA 101, AVIA 151, AVIA 201.
Type: C

AVIA 270 Flight Training Multi-Engine 1-0-1
This course consists of the flight training to prepare students for the multi-engine rating. Emphasis will be placed on aircraft systems and engine.
Requisite: Department consent
Type: C

AVIA 271 Flight Instructor Helicopter Theory 3-0-3
This course prepares the student to develop instructional techniques by learning the fundamentals of the learning process, elements of effective teaching, instructor candidate evaluation and testing, course development, lesson planning, classroom training techniques and aeronautical knowledge areas required for the Private and Commercial Rotorcraft Helicopter Certificate.
Requisite: Hold a Commercial Instrument Rotary Wing Pilot Certificate
Requisite: Department consent
Type: C

AVIA 272 Flight Training Helicopter Instructor 2-0-2
This course provides the flight instructor candidate with the flight training to accomplish the FAA practical test for a Rotary Wing Flight Instructor Certificate. Training includes ground operations, flight maneuvers for rotary wing and flight related emergency procedures. The applicant must meet the appropriate standards as listed in the FAA Airmen Certification Standards.
Requisite: Concurrent enrollment in or completion of AVIA 271.
Type: C

AVIA 273 Flight Instructor Helicopter Instrument Theory 2-0-2
An advanced instructor course that prepares the student for the FAA Instrument Instructor Rotary Wing Knowledge Exam. Course contents includes; fundamentals of instruction, the learning process, elements of effective teaching, instructor candidate evaluation and testing, course developments lesson planning and classroom training techniques. The course also provides training on flight instruments, human factors, safe operations under IFR and IFR navigation, Instrument approaches and IFR enroute. In addition, the course provides training in ATC procedures, Federal Aviation Regulations for IFR flight, Helicopter IFR operations and Aviation Weather that includes recognition of critical weather conditions.
Requisite: AVIA 272 or coordinator approval.
Type: C

AVIA 274 Flight Training Helicopter Instrument Instructor 1-0-1
An advanced instructor course that prepares the student to successfully accomplish the FAA Practical Test for the Instrument Instructor Rotary Wing Certificate. Training emphasis includes preflight preparation, preflight procedures, air traffic control clearances and procedures, flight by reference to instruments, navigation systems and instrument approach procedures. The instrument instructor candidate must the standards as outlined by the FAA Airmen Certification Standards.
Requisite: Concurrent enrollment in or completion of AVIA 273.
Type: C

AVIA 280 Internship 0-15-3
Provides an opportunity to gain experience in the aviation system (non-flight) after completion of prescribed aviation courses. Experience obtained will be through a joint effort on the part of industry, ATC, Airline, FBO, FAA and SWIC faculty. A written report is required.
Requisite: Department consent
Type: C

AVIA 291 Airline Transport Pilot Ground 3-0-3
An advanced ground course that has been designed to prepare the student for the Airline Transport Pilot written examination. Advanced instruction on light and heavy jet aircraft, FAR Parts 121 and 135 will be included. Course meets two weekends, for four days or supervised self-study is available. The final is taking the ATP written examination.
Requisite: Department consent
Type: C

AVIA 292 Flight Training-ATP 3-0-3
Flight instruction in preparation for the ATP rating in airplanes. The materials studied in AVIA 291 are applied in this course.
Requisite: AVIA 291.
Type: C

AVIA 299 Special Topics In Aerospace Variable up to (5)-(10)-(5)
The student will apply aviation knowledge learned to solve problems using case studies, simulations, special or aviation management techniques. Semester credits will be based on the complexity of the problem.
Requisite: None.
Type: C

Avionics

AVE 100 Mathematics for Avionics 1.5-3-3
This course provides a foundational understanding of essential mathematical concepts and their applications in avionics. Students will develop the skills needed to work with avionics systems, troubleshoot electronic components, and analyze data relevant to aviation. Topics include algebra, trigonometry, and basic statistics.
Requisite: None.
Type: C

AVE 101 Intro to AC Maint Practices 1.5-5-4
This course introduces the student to aviation safety practices, safety management, human factors, and electrical safety practices. Students learn aircraft structural design and materials utilized in the construction of the aircraft and control surfaces. Aircraft structural drawings and electrical schematics are introduced to define specific fuselage stations and electrical system power distribution. Students also learn and perform weight and balance calculations required during modifications and upgrades to components and avionics systems. Students are also introduced to general safety procedures and cautions while operating in aircraft movement areas and near operating aircraft. In addition the students will learn to safely perform aircraft ground handling procedures utilizing industry standard precautions. He / She will also become familiar with the aircraft communication and navigation systems installed in the aircraft.
Semester(s) Offered: Fall
Requisite: None.
Type: C

AVE 102 Intro to AC Elec and Elect 3-4-5
This course in an introductory electrical and electronics course for students entering the aviation (Avionics) electronics program. The course introduces students to the fundamental principles of electricity and basic AC/DC circuits, electronic components. The course also introduces electrical /electronic diagrams, provides the student with the opportunity to become proficient in using common test equipment and tools used to construct, install, measure and repair electrical wiring and cabling utilized in aircraft electrical systems. Students will learn to perform a complete electrical analysis of complex DC and AC circuits consisting of resistors, capacitors, inductors, and transformers connected in various series, parallel and series-parallel configurations. The course will also cover applications of these components in common electrical circuits and will begin teaching students basic troubleshooting skills.
Semester(s) Offered: Fall
Requisite: None.
Type: C

AVE 115 Aircraft/Avionics Elec Power 2-4-4
In this course the student will develop an in-depth understanding and operational knowledge of aircraft electrical power systems and distribution. Aircraft Batteries, AC and DC generators, inverters, rectifiers, alternators, and frequency utilized in aircraft operations will be introduced. Students will also learn and demonstrate an operational understanding of digital circuits, signal generation, antennas, amplification, and signal protection utilizing specialized types of cable shielding for signal distribution. Students will be introduced to electrostatic safe operating procedures when conducting maintenance practices on aircraft and aircraft electronic components.
Semester(s) Offered: Fall
Requisite: Concurrent enrollment in or completion of AVE 100, AVE 101, and AVE 102.
Type: C

AVE 131 Avionics Inst/ Harness MFG 2-4-4
This course will focus on the development of avionics equipment wiring, reading, and interpreting wiring diagrams and instructional manuals. The course also covers the introduction to avionics systems, use of applicable test equipment, aircraft wiring diagrams, wire terminations, connections and

construction of wiring harnesses and harness testing. The student will become proficient at reading and interpreting wiring diagrams and instructional manuals, AD 43-13-1B, wire marking and identification, cable routing and wire chafe protection. The student will also become proficient at cannon plug installation, connector terminations, pin installation, crimping and solder connections, proper coaxial cable connections, testing signal loss, wire ring outs and troubleshooting.
Requisite: Concurrent enrollment in or completion of AVE 100, AVE 101 and AVE 102 and AVE 115.
Type: C

AVE 141 Avionics Installation Trends 2-4-4
This course builds from the foundation established in the prior AVE 131 course. This course provides the student with in-depth understanding of the electrical power distribution of the aircraft, how to install the associated connections, system maintenance and the associated troubleshooting process. The course continues to reference wiring diagrams, electrical schematics, installation instructions and FAA guidance material for the installation of equipment, equipment racks and antennas. Guidance for proper documentation is emphasized including aircraft records, aircraft maintenance logbooks and shop work orders.
Semester(s) Offered: Spring
Requisite: Concurrent enrollment in or completion of AVE 102, AVE 115 and AVE 131.
Type: C

AVE 159 VHF Nav and Comm Equip 2-4-4
This course is an intermediate course designed to provide the student with an understanding of the principals of operation of VHF Aircraft communication and Navigation equipment. The student will gain experience in the construction, routing and installation of wiring harness including testing and troubleshooting for communication and navigational components. The student will become proficient at reading and interpreting wiring diagrams and instructional manuals, AC 43-13-1B, wire marking and identification, cable routing and wire chafe protection. The student will also become proficient at cannon plug installation, connector terminations, pin installation, crimping and solder connections, proper coaxial cable connections, testing signal loss, wire ring outs and harness termination at component racks in preparation for unit installation. The student will also be introduced to fiber Optics and the specific requirements for installation. An introduction to navigational data updates through the digital data bus will also be introduced and included in this course.
Semester(s) Offered: Fall
Requisite: Concurrent enrollment in or completion of AVE 131 and AVE 141.
Type: C

AVE 166 Installer /Communications/Navigation Phase I 2-4-4
This course will focus on the production benefits. The student will begin to develop proficiency installing, testing, and troubleshooting VHF communication equipment with the addition of an audio panel. The student will develop skills required to accomplish the installation of accommodations for headphone connections, speaker marker beacon and microphone wiring installations. The student will also develop the ability to assist in the installation of avionics racks utilizing support brackets with proper hardware and materials in accordance with the manufactures recommended procedures. The student will also complete an aircraft updated aircraft weight and balance form after completing the installation. He /She will also accomplish the required return to service documents and work order(s) associated with the installation.
Semester(s) Offered: Fall
Requisite: Concurrent enrollment in or completion of AVE 131, AVE 141 and AVE 159.
Type: C

AVE 167 Transponder/ADS-B & System Installation/Pilot Static System Test 2-4-4
This course introduces the student to the function and installation of the Aircraft Transponder and Automatic Dependent Surveillance - Broadcast (ADS-B) System. In addition, the student will learn the function and testing of the pilot static system to a specific standard. Students will also develop a more in-depth understanding of the digital data bus that provides uploads of aircraft navigational data. This course is a Capstone project designed to develop the student's application of knowledge to practical situations determining faults. The course continues to further the student's in-depth operational knowledge of components installed in the aircraft avionics system and basic troubleshooting of component failures and system faults.
Semester(s) Offered: Fall
Requisite: Concurrent enrollment in or completion of AVE 131, AVE 141, AVE 159 and AVE 166.
Type: C

AVE 168 Installation of GPS Navigation and Electronics Flight Systems Phase II 2-4-4
This course continues to focus on the production benefit. The student will develop the ability to perform the installations, testing, and troubleshooting of navigation, Global Positioning Systems and Electronic Flight Information Displays. The student will also continue to develop his/her ability to support aircraft maintenance personnel with a level of proficiency in avionics rack removals and installation. The course will also include a Capstone project installing flight information displays along with unit function and testing to a specific standard.
Semester(s) Offered: Fall
Requisite: Concurrent enrollment in or completion of AVE 159, AVE 166 and AVE 167.
Type: C

AVE 201 Autopilot/Auto Flight Systems 3-2-4
This course introduces the student to integrated systems input/output functions and troubleshooting of autopilot, auto flight, and fly-by-wire systems. The student will learn analyze and evaluate normal system function of advanced autopilot and fly-by-wire systems. Students will then draw upon their system knowledge to trouble shoot induced system trainer faults. This course is meant to be a summation of Avionics systems integrated operating principles and troubleshooting techniques, highlighting the inputs and outputs from various external systems that support auto flight and fly-by-wire.
Requisite: Concurrent enrollment in or completion of AVE 166, AVE 167 and AVE 168.
Type: C

AVE 203 NCATT AET Test Prep 3-0-3
This course is designed as a review and preparation course prior to taking the National Center for Aircraft Transportation technologies (NCATT) Aircraft Electronics Technician (AET) certification test, with additional focus area emphasis on Aircraft Electronics Installation Technician (AEIT) endorsement.
Requisite: Concurrent enrollment in or completion of AVE 166, AVE 167, AVE 168 and AVE 201.
Type: C

AVE 299 Internship Variable up to 0-(20)-(4)
Allows students to earn academic credit for supervised on-the-job experience. Eighty hours of work per semester are required for each semester credit.
Requisite: Department consent
Type: C

Biology

BIOL 100 General Biology: Ecology, Evolution, & Genetics 3-2-4
A laboratory course emphasizing scientific inquiry through the topics of cell structure and function, genetics, biodiversity, evolution, and ecology. Biological issues with personal and social implications will be introduced. Not intended for science majors.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T, IAI-L1 900L

BIOL 101 Principles of Biology I 3-2-4
A laboratory course emphasizing the fundamentals of organization, metabolism, photosynthesis, growth, genetics and evolution. Intended for science majors.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Math placement into MATH 107 or 111 or higher or successful completion of MATH 95 or MATH 97 with a grade of "C" or better; Eligible for ENG 101.
Type: T, IAI-BIO 910, IAI-L1 910L

BIOL 102 Principles of Biology II 3-2-4
This course is a continuation of BIOL 101. Topics include the origin and phylogeny of life, biodiversity, comparative physiology, and ecology.
Semester(s) Offered: Fall, Spring
Requisite: BIOL 101 with a grade of "C" or better.
Type: T, IAI-BIO 910, IAI-L1 910L

BIOL 105 Human Biology 3-2-4
Essential principles of human anatomy and physiology are presented, including basic chemistry, microscopic investigation of cell and tissue samples, physiologic exercises, and an overview of the following body systems: body organization, basic chemistry, histology of tissues and the integumentary, skeletal, muscular, nervous systems and senses, endocrine, blood, heart and the circulatory system, lymphatic and immune systems, respiratory, digestion, urinary systems, and reproduction. This course is intended as a one semester survey course for certain health sciences and social programs.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T

BIOL 106 Environmental Science 3-0-3
Environmental science is an online course designed to provide a broad understanding of the physical, biological and social aspects of the environment. Topics include basic ecological concepts, sustainability, energy problems, natural resources, human population growth, preserving biodiversity, climate and environmental pollution. Possible solutions to these topics will be considered. This course does not meet the laboratory science requirements at SWIC. Students are expected to dedicate an additional 8 hours per week to study the course content, complete homework, analyze data, and seek assistance in a timely manner.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T, IAI-L1 905

BIOL 107 Human Genetics and Inheritance 3-0-3
A lecture-based course emphasizing scientific inquiry focused on human genetics and heredity. This course will cover the scientific process and the three fundamental areas of modern genetics: transmission, molecular, and evolutionary genetics and will include topics such as cell structure and function, genetics, biodiversity, and evolution. Major principles in each area will be covered in sufficient detail to provide students with a broad understanding of the field. This course is intended to fulfill a general life science requirement without a lab. This course is not intended for Biology Majors.
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T, IAI-L1 906

BIOL 108 General Ecology 3-2-4
General Ecology is more of a "big picture" class that attempts to increase students' understanding of how nature works. The goal is to help students understand why things happen the way they do in the natural world. Ecology is the study of the interaction between organisms, the environment, and each other. Topics covered include: evolution and natural selection, population interactions, biological communities, ecosystems, energy flow, and the human impact on the environment. The lecture portion of this class is online and the lab portion is in person. Laboratory exercises for this class are mostly held outdoors. Some labs will involve students performing experiments, collecting data in the field, while others will involve field trips to areas of ecological significance in the SWIC district.
Semester(s) Offered: Fall, Summer
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T, IAI-L1 905L

BIOL 110 Introduction to Marine Biology 3-0-3
This course focuses on both the biological and physical aspects of marine environment. Topics discussed include the physical geography of the ocean, diversity of life, marine ecosystems, and how humans affect the marine environment. A separate field trip course may be taken to fulfill the lab requirement of this class.
Semester(s) Offered: Summer
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T

BIOL 151 Plants and Society 3-2-4
This course considers the fundamental concepts of plant biology and how plants as living organisms have influenced society. Students will learn plant cell, molecular and tissue biology and examine the diversity that exist in the plant kingdom. Societal topics covered will include the ecology and evolution of plants, the role of plants in the carbon cycle, and human dependence on plants for food, shelter, fuel, medicine, and clothing. Student will read and discuss articles current to plant biology and interpret charts and graphs of agriculture and forest plants as a result of climate change. Weekly labs include examination of plants for antimicrobial properties and making your own microscope slides of plant stomata.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T, IAI-L1 901L

BIOL 157 Human Anatomy & Physiology I 3-3-4
The course begins with a study of cells and tissues followed by a comprehensive anatomical and physiological study of the following human systems: integumentary, skeletal, muscular, nervous and senses. Basic chemistry, microscopic investigations of cells and tissues and vertebrate dissections are an integral part of this course. .
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T

BIOL 158 Human Anatomy & Physiology II 3-3-4
A comprehensive anatomical and physiological study of the following human systems: Endocrine, circulatory, immune, respiratory, digestive, urinary and reproductive. Microscopic investigations of cells and tissues and vertebrate dissections are an integral part of this course.
Semester(s) Offered: Fall, Spring, Summer
Requisite: BIOL 157 with a grade of "C" or better.
Type: T

BIOL 220 Intro to Cadaver Dissection 0-2-1
This course is an introduction to human cadaver dissection with an emphasis on dissection techniques and gross anatomy of the human body. Students will work in small groups to perform supervised dissection of a human cadaver.
Semester(s) Offered: Fall
Requisite: BIOL 105 or BIOL 157 with a grade of "C" or better.
Department consent
Type: T

BIOL 250 Microbiology 3-2-4
This course is the study of the structure, metabolism, reproduction, heredity, evolution, ecological and pathological relationships of microbes including bacteria, viruses, fungi, yeasts and protozoa.
Semester(s) Offered: Fall, Spring, Summer
Requisite: BIOL 101 or BIOL 157 each with a grade of "C" or better, or BIOL 105 and MST 104 each with a grade of "C" or better..
Type: T

BIOL 270 Genetics 3-2-4
This course takes a problem-solving approach to the study of three fundamental areas of modern genetics: transmission, molecular, and evolutionary genetics. Major principles in each area will be covered in sufficient detail to provide students with a broad understanding of the field. Laboratory experiments and activities will enhance and apply concepts covered in lecture.
Semester(s) Offered: Spring
Requisite: BIOL 101 with a grade of "C" or better or departmental approval.
Type: T

BIOL 299 Special Topics in Biology Variable up to (4)-(6)-(4)
This course will give students an opportunity to investigate special topics or problems in biology, and provide students with the knowledge and ability to deal with those topics or problems in relation to their special requirements.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

Brewing

BRW 101 Introduction to Brewing Processes 2-0-2
This is an introductory course covering the fundamental raw materials and methodologies utilized in the processes of brewing and fermentation. This course will not only provide an overview of brewing and fermentation operations, including handling, managing, storing, and sanitizing, but will also provide essential reinforcement of technical terminology as regards to ingredients, equipment, and standard vocabulary used in the industry. More specifically, students will learn about the distinctions in producing wine, cider, beer, and mead, among others.
Requisite: None.
Type: C

BRW 103 Principles of Brewing Science 3-2-4
This course will provide a broad overview of the principles involved in brewing and fermentation science. Basic knowledge of quality and recipe design for various styles of alcoholic beverages will be covered, as well as a general history and understanding of raw materials, proper laboratory techniques, brewing processes, quality assurance matters, and varieties of beverages. The course will act as an introduction to brewing and fermentation sciences in context and will include laboratory meetings, case studies, and excursions to local partnered brewing, packaging, and/or distribution facilities for inspection/assessment of operational equipment.
Requisite: None.
Type: C

BRW 151 Biochemistry of Brewing 3-2-4
This course provides the foundational knowledge for the chemistry involved in brewing and distillation. It introduces students to concepts such as chemical bonding, pH, pressure, enzymes, ingredient analysis, fermentation, and biopolymers in order to identify and analyze the properties of various alcoholic beverages. Students will be expected to apply these principles in the laboratory and utilize this knowledge in order to improve the quality of brewing. This course will include laboratory meetings, case studies, and excursions to local partnered brewing facilities.
Requisite: BRW 103.
Type: C

BRW 201 Brewing Science Operations I 2-2-3
Students will acquire knowledge of brewing science crucial to the management and operation of the laboratory brewing operations when converting raw materials to product. Students be able to recognize each raw material—namely, malt, hops, water, and yeast—and their characteristics and elaborate upon the processes necessary for manufacturing. This course ensures that students are able apply the appropriate calculations and analyze proper chemical properties at each level of the production process. It will highlight standard principles of milling, mashing, separating wort and hops, boiling, and chilling wort in order to yield high quality product. Quantitative and qualitative methods will be implemented to analyze the success and quality control throughout the process. This course will include laboratory meetings, case studies, and excursions to local partnered brewing facilities.
Requisite: Concurrent enrollment in or completion of BRW 103..
Type: C

BRW 202 Brewing Science Operations II 2-2-3
This course will require and reinforce the knowledge learned in the prerequisite Operations in Brewing Science I. The goal will be to take a more in-depth approach to build upon previous topics such as fermentation analysis, aging, yeast handling, conditioning and filtration procedures, converting chilled wort, and other advanced beer making processes. Other topics will include specialty beers, quality assurance, sustainable brewing techniques, packaging systems, as well as touching upon legal requirements and basic cost analysis. An emphasis will be placed on safe and appropriate maintenance, cleaning, and handling of all equipment and materials encountered in daily operations. This course will include laboratory meetings, case studies, and excursions to local partnered brewing facilities.
Requisite: BRW 103 & BRW 201.
Type: C

BRW 207 Beers & Wines of the World 3-0-3
This course will contain a broad look at beer and wine in a cultural and historical context and examine the evolution of their roles and influence through time and various cultures. Students will learn about a variety of beers and wines, how different methods create different styles and tastes, as well as how foods are paired to wines and beers globally. Furthermore, this course will encourage students to value the marketing and presentation of the beverages, including packaging and service, in order to understand traditions and practices around the world.
Requisite: None.
Type: C

BRW 250 Brewing Technology 2-2-3
Through this course students will be exposed to different kinds of brewery equipment, technology, and facilities typically used today. The course will ensure students have a solid understanding of not only the design, construction, installation, performance, and proper maintenance of equipment utilized in beer production, but will also reinforce strict guidelines for safe and efficient operation of the equipment at all stages of the brewing process. This includes utilizing the provided safety equipment and safely disposing of waste materials, but also embraces the practices of sustainable brewing. Students will have contact with operational machinery and engage with brewing technologies directly at local brewery facilities. Some of the equipment involved will include vessels, piping and valves, pumps, heat exchangers, pasteurizers, carbon dioxide systems, counter-pressure-filling machines, conveyers, and other machinery.
Requisite: BRW 101.
Type: C

BRW 251 Intro to Fermentation Science 2-2-3
This course explores the biological and chemical processes involved in fermentation science. Students will gain an understanding of how micro-organisms function in the creation of fermented food and beverages in cultures all over the world. The course will not assume any previous chemistry or biology knowledge and will initially provide an overview discussion regarding chemical bonding, molecule structures, and types of organisms involved in the process of fermentation. Students will engage in lab experiments where basic knowledge of fermentation science can be applied and observed in a variety of beverages and foods.
Requisite: BRW 103.
Type: C

BRW 260 Legal Topics in Brewing 2-0-2
Students will be familiarized with state and federally mandated regulations for the brewing, distillation, and fermentation industry through this course. The course will emphasize quality control of all raw, packaging, and processing materials, ethical obligations, mandatory permits and inspections, sustainability issues, licensing laws, and taxation. Upon completion, students will possess a firm understanding of the legal parameters within the industry at each step process as they pertain to both craft brewing and large-scale manufacturer compliancy.
Requisite: None.
Type: C

BRW 269 Brewing Operations Internship 0-5-1
This course provides an opportunity for hands-on training within the working brewery environment. All progress will be monitored and supervised, and internships will likely take place in a local partnered brewing, packaging, and/or distribution facility. Students can work with other facilities subject to approval by their advisor. Students will be able to apply their knowledge of fermentation and brewing practices, observe daily management and processing techniques, and enhance their brewing and fermenting skills in this practicum. The internship offers a practical augmentation of the instruction provided during the semester in order to properly orient themselves in any facet of the fermentation/brewing operations.
Requisite: BRW 201, BRW 202, BRW 250.
Type: C

BRW 270 Sensory Analysis of Beer 2-2-3
In this course, students will develop the sensory skills necessary to evaluate beer quality and recognize industry quality standards as well as flavor abnormalities that may arise. Students will be provided with commonly used terminology to define beer properties and analyze aromas, finishes, flavors, and expressions as established within the industry and judging systems. Special attention will be paid to understanding the biochemical and microbiological processes that create the gustatory and olfactory expressions amongst a range of styles, but also explain the off-flavors that might occur. Students will be equipped with the skills to pinpoint which steps of the processes—raw material quality evaluation, brewing, fermentation, or sanitation—cause various defects, and can work to improve quality in the future. This knowledge

will also lend itself useful in understanding how beer is paired with foods and giving solid recommendations in customer service.
Requisite: None.
Type: C

BRW 280 Brewing Science Capstone 0-6-3
This course acts as the culmination of the degree through practical application of their brewing and fermentation science skills while engaging with the knowledge accrued throughout previous courses. This practicum will give students an opportunity to showcase their acquired skills by creating their own beer product. A supervisor will oversee the progress and ensure that students comply with all safety measures, but students will be responsible for the process from start to finish, including designing a recipe, choosing raw materials, performing all scientific testing and analysis throughout brewing, recording the appropriate data, observing the quality, maintaining the equipment, and marketing their product.
Requisite: BRW 201, BRW 202, BRW 250.
Type: C

Bricklayer Apprentice

BLA 118 Construction Bricklayer Apprentice I 3-2-4
This course will acquaint the student with some of the basic knowledge of the bricklaying trade. Material covered in the first year will include history, manufacturing processes and structural properties of masonry materials. Types of mortar and sand will also be covered.
Requisite: None.
Type: C

BLA 128 Construction Bricklayer Apprentice II 3-2-4
Materials covered in this course will include manufacturing processes and structural properties of masonry materials. This course is a continuation of BLA 118.
Requisite: None.
Type: C

BLA 138 Construction Bricklayer Apprentice III 3-2-4
This course of study will introduce the student to the tools, math and blueprints used in the bricklaying trade. Material will include the trowel, brick hammer, blacking chisel, story pole, and spacing ruler. Trade arithmetic, blueprints, and sketching will also be covered.
Requisite: None.
Type: C

BLA 148 Construction Bricklayer Apprentice IV 3-2-4
Materials covered in this course will include the trowel, brick hammer, blacking chisel, story pole, and spacing ruler. Trade arithmetic, blueprints and sketching will also be covered. This course is a continuation of BLA 138.
Requisite: None.
Type: C

BLA 258 Construction Bricklayer Apprentice V 3-2-4
This course is designed to give the three-year apprentice some practical shop work along with his on-the-job training. Material covered will include motion study, structural patterns, and laying of units.
Requisite: None.
Type: C

BLA 268 Construction Bricklayer Apprentice VI 3-2-4
Materials covered will include motion study, structural patterns and laying of units. This course is a continuation of BLA 258.
Requisite: None.
Type: C

BLA 299 Special Topics in Construction Bricklaying
Variable up to (4)-(8)-(4)
This course is designed to familiarize students with special topics or problems in the construction bricklayers' field, to provide them with knowledge and ability to deal effectively with those topics or problems in relation to their specific requirements.
Requisite: None.
Type: C

Business

BUS 101 Introduction to Business 3-0-3
A survey of the functional areas of business. Major topics include: the economic, legal, social and global environment in which modern businesses operate; social responsibilities of business; forms of business ownership; functions and responsibilities of managers; and fundamental concepts of marketing, accounting, finance, information management, and labor relations and human resource management.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T

BUS 102 Business Mathematics 3-0-3
This course covers the fundamental processes in mathematical computations used in business and consumer finance. Topics covered include: percentage; interest; consumer credit; cash and trade discounts; mark-up; payroll, property and income taxes; social security; amortization tables; time value of money; stocks; and bonds.
Students may receive credit for only one of the following: BUS 102 or MGMT 102
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

BUS 205 Economic and Business Statistics 4-0-4
The following concepts and statistical techniques are included: measures of central tendency and variability; random variables and probability distributions; binomial, normal, and sampling distributions; estimation; tests of hypotheses; chi square tests; linear regression and correlation; and multiple regression. Statistical software projects are required. Use of a graphing calculator, as recommended by the instructor, is required for this course. At the conclusion of this course, students will be able to extract and interpret information from data and apply statistical tests to make and communicate informed decisions in business and related fields. Students may receive credit for only one of the following: MATH 107, MATH 191, or BUS 205.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Math placement above MATH 112 or completion of MATH 112 with a grade of "C" or better.
Type: T, IAI-BUS 901, IAI-M1 902

BUS 209 Business Computer Systems 3-0-3
This course is designed primarily for students planning to pursue a baccalaureate degree with a major in a field of business. It covers the basics of management information systems from a business perspective. Hardware, operating systems, and applications software used in business enterprises are described. The course also discusses the role of the internet, World Wide Web and e-commerce in modern business enterprises. It introduces application software offered in popular business computer packages, including word processing, database management, spreadsheets, and presentation software, and provides students with a limited amount of hands-on experience with this software.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-BUS 902

BUS 215 Business Law 3-0-3
An introduction to the history and philosophy of law and the American legal system and its relationship to business. Discussed are fundamentals of contracts, agency and employment, business organizations, and personal property and bailment. A lecture case approach is used.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T

BUS 220 Data Analytics for Business 3-0-3
This course will introduce students to the concept of data analysis. Microsoft Excel will be used to analyze and interpret financial data as it applies to business-related decisions.
Semester(s) Offered: Fall
Requisite: None.
Type: C

BUS 240 Ethics in the Workplace 3-0-3
This course explores how ethical principles can be integrated into strategic business decision-making within today's complex legal, social, and political environments. Students examine moral philosophy, social responsibility, corporate governance, sustainability, corporate culture, and multicultural perspectives on global business ethics. Emphasis is placed on applying ethical frameworks and decision-making models to real-world organizational challenges.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: C

BUS 241 Fundamentals Of Finance 3-0-3
This course provides critical financial information required for entrepreneurial success. Topics covered include: forms of ownership; break-even analysis; time value of money; balance sheets, cash flow statements, and income statements; forecasting; risk management; and personal financial management as it relates to business success. Students may receive credit for only one of the following: BUS 241 or MGMT 241.
Semester(s) Offered: Fall, Spring
Requisite: ACCT 105 or ACCT 110 in the last five years with a grade of "C" or better.
Type: T

BUS 261 Business Communications 3-0-3
This course focuses on helping learners to develop skills needed for effective written and verbal communication in professional or work-related settings. During the course, learners will strengthen their knowledge and enhance their communication skills, including key areas of career preparation, listening, team work, culture, ethics, writing, and presenting.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

BUS 280 Copyright/Trademark/Patent Law 3-0-3
This course will provide students with an overview and understanding of the various intellectual property disciplines, including copyright, trade secret, trademark, and patent law. This course will emphasize both the theoretical and practical application of these areas of law. Students will be required to complete writing projects. Students may receive credit for only one of the following: BUS 280 or PARL 280.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

Variable up to
BUS 294 Special Topics/Issues in Business (4)-(8)-(4)
Presents projects and topics in business by simulated experiences, observations, discussions, conferences, readings and individual research. Projects and topics will vary to meet individual interest and needs.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

Cannabis

CAN 101 Cannabis Industry and Law 3-0-3
This course provides an overview of fundamental information about the history, law, and culture of cannabis cultivation and consumption. The course will not only familiarize students with legal issues surrounding the cultivation, production, and use of cannabis today, but also provide a backdrop of knowledge to help students understand the stigma and previous status of cannabis in the U.S. as well as its functions abroad. This course will also give students an overview of regulations and legal issues regarding cannabis cultivation and use throughout the U.S., and students will be able to distinguish between local, federal, and state laws. Students will review federal policies on prescribing and dispensing cannabis and focus particularly on the laws concerning medical marijuana. Important terminologies related to the production/processing of cannabis will be utilized. Students will understand the distinctions between different varieties of cannabis products (e.g., hemp, CBD oil, and marijuana). The course will also emphasize potential career paths within the industry and what requirements may be necessary for different specializations.
Requisite: None.
Type: C

CAN 102 Medical Cannabis Use/Research 3-0-3
This course will provide students with a foundational understanding of how cannabis can be utilized as treatment in the medical field as well as relevant modern topics in cannabis research. Students will learn about how the body reacts chemically to cannabis usage through both benefits and side effects. Legislation specifically regarding the usage of medical cannabis will be covered, and students will become familiar with safe and reliable medical cannabis practices. The course will also seek to address misinformation about cannabis, and students will explore the latest findings from industry experts and research programs in regards to proper cultivation, processing, and usage. The course will not only cover researched benefits, but disadvantageous effects, including misuse, addiction, and social consequences and cultural implications as well. Discussions about ethics in medical and non-medical cannabis usage will also be emphasized
Requisite: None.
Type: C

CAN 130 Cannabis Operations 3-0-3
In this course, students will be exposed to a variety of industry perspectives and will explore different tracks within the cannabis industry, including entrepreneurship, dispensary operations, hemp production, CBD oil processing, medicinal plant chemistry, and greenhouse cultivation. Furthermore, students will apply their knowledge of cannabis dispensary practices, familiarize themselves with daily management and processing techniques, and enhance their understanding of compliance laws through this course. The course will include information about how cannabis careers can be supplemented with further education in related fields, such as agriculture, business, horticulture and Health sciences.
Semester(s) Offered: Fall, Spring, Summer
Requisite: CAN 101, CAN 102 or concurrent enrollment.
Type: C

CAN 220 Cannabis Cultivation 2-2-3
This course provides a basic understanding of cannabis plant biology and cultivation practices, including psychoactive and non-psychoactive constituents. Students will be introduced to the cultivation of cannabis and hemp plants focusing on the agricultural aspects and biology of the plant. Students will work hands-on using hemp as the model plant and apply various applications of cultivation techniques throughout its life cycle. This course will familiarize students with innovative cultivation methods commonly used in cannabis production. Students will learn how to propagate plants from seeds and vegetative cuttings via hydroponic and aeroponic systems. This course also introduces concepts related to the organization of the plant body and the related factors necessary for cultivation in soil and soil substitute growing medium.
Requisite: Completion of CAN 101 and HORT 112/AGRI 121 with a grade of 'C' or better.
Type: C

CAN 240 Pharmacology of Cannabis 2-0-2
This course will examine the benefits, safety, adverse health effects, and dosing standards of phytocannabinoids found in cannabis. Students will explore the physiological changes created by cannabinoid exposure and recognize the mechanisms of action that may have potential therapeutic properties. This course will provide insight into factors that influence drug metabolism within the body, and why this determines the intensity and duration of cannabis's known pharmacological effects. Desirable and undesirable effects from cannabis are exceedingly variable, and cannabis use should be personalized for each individual patient.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Completion of CAN 101 and HORT 112/AGRI 121 with a grade of 'C' or better.
Type: C

CAN 250 Cannabis Products and Processing 2-2-3
This course introduces students to standards, regulations, and practices related to cannabis product processes and their uses. Using hemp as a model plant, students are introduced to isolation of bioactive compounds of the plant using chemical extraction techniques. This course will cover different types of solvent and solventless extraction techniques, and their applicability to manufactured infused products. Students will learn the basics of Good Manufacturing Practices (GMP), Standard Operating Procedures (SOP), food safety and management, and proper product handling techniques with an emphasis placed on large-scale production practices. Students will learn how different business and financial models surrounding cannabis manufacturing

are employed within the industry.
Requisite: Completion of CAN 220 with a grade of 'C' or better, or concurrent enrollment.
Type: C

Chemistry

CHEM 100 Chemistry in Everyday Life 3-2-4
A survey of chemistry in the context of the things that can or do affect us in our everyday lives. Topics include air and water quality, global warming, fossil, solar and nuclear fuels, acid rain, plastics and nutrition. This course is designed for transfer students in liberal arts, and elementary education majors.
Semester(s) Offered: Fall, Spring
Requisite: Math placement into MATH 97 or higher; Eligible for ENG 101 .
Type: T, IAI-P1 903L

CHEM 101 Introductory Chemistry 3-4-5
Fundamental concepts in chemistry through discussion of the structure of matter, atomic theory, simple chemical calculations, the nature of chemical reactions, and introduction to organic chemistry. For students who have had no previous chemistry.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Math placement into MATH 97 or higher; Eligible for ENG 101 .
Type: T, IAI-P1 902L

CHEM 103 Introductory Organic & Biological Chemistry 3-4-5
An overview course designed to give students a basic understanding of organic nomenclature, functional groups, basic organic reactions, and biological molecules such as enzymes, proteins, lipids, carbohydrates and nucleic acids.
Semester(s) Offered: Fall, Spring, Summer
Requisite: CHEM 101 or CHEM 105 each with a grade of "C" or better.
Type: T

CHEM 105 General Chemistry I 3-4-5
Basic principles of inorganic chemistry with emphasis on atomic structure, bonding, stoichiometry, chemical reactions, thermochemistry, gas laws, periodicity, states of matter, and solutions. For the chemistry major, other science major, engineering, pre med, pharmacy and other pre-professional fields.
Semester(s) Offered: Fall, Spring, Summer
Requisite: 1 yr HS Chemistry w/"C" or better & placement above or completion of MATH 112 w/"C" or better; or CHEM 101 w/"C" or better & math placement above or concurrent enrollment in MATH 112; Eligible for ENG 101.
Type: T, IAI-CHM 911, IAI-P1 902L

CHEM 106 General Chemistry II 3-4-5
Continuation of Chemistry 105 with special emphasis on kinetics, thermodynamics, solution chemistry, control of equilibrium, acid-base theory, solubility, electrochemistry, complex ions, and some nuclear chemistry.
Semester(s) Offered: Fall, Spring, Summer
Requisite: CHEM 105 with a grade of "C" or better; Math placement above MATH 112 or completion of MATH 112 with a grade of "C" or better.
Type: T, IAI-CHM 912

CHEM 201 Organic Chemistry I 3-4-5
An introduction to organic chemistry dealing principally with structure, reaction mechanisms and properties of organic compounds; with special emphasis on alkanes, alkenes, alkyl halides, alcohols, and ethers.
Semester(s) Offered: Fall
Requisite: CHEM 106 with a grade of "C" or better.
Type: T, IAI-CHM 913

CHEM 202 Organic Chemistry II 3-4-5
A continuation of Chemistry 201 with special emphasis on spectra, aldehydes, ketones, carboxylic acids, derivatives of carboxylic acids, amines, and phenols.
Semester(s) Offered: Spring
Requisite: CHEM 201 with a grade of "C" or better.
Type: T, IAI-CHM 914

Chinese

CHIN 101 Elementary Chinese I 4-0-4
This introductory language course focuses on establishing a solid foundation in the four basic skill areas of reading writing, listening comprehension and speaking in Mandarin Chinese. Students are also introduced to the history and cultures of the Chinese-speaking world.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

CHIN 102 Elementary Chinese II 4-0-4
This introductory language course is a continuation of CHIN 101 and focuses on establishing a solid foundation in the four basic skill areas of reading, writing, listening comprehension and speaking in Mandarin Chinese. Students are also introduced to the history and cultures of the Chinese-speaking world.
Semester(s) Offered: Intermittently
Requisite: CHIN 101.
Type: T

Cisco Networking Academy

CISC 106 Introduction to Cybersecurity 1-0-1
This course provides an overview of cybersecurity including the importance of cybersecurity, the characteristics and operation of malware, and options for defense against cyber threats. Students will also explore why cybersecurity is important in various industries. NOTE: Successful students will possess a basic understanding of networking concepts prior to enrolling.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

CISC 116 Cisco Cybersecurity Essentials 2-0-2
Cybersecurity Essentials provides foundational knowledge of the security domains in the cyber world. The course introduces information security, systems security, network security, mobile security, and physical security. Additional topics include ethics and laws, related technologies, defense and mitigation techniques use in protecting businesses. The course discusses the characteristics and tactics of cyber criminals and explores the technologies, products, and procedures used by cybersecurity professionals to combat cybercrime.
Semester(s) Offered: Fall, Spring
Requisite: Concurrent enrollment in or completion of CISC 106.
Type: C

CISC 117 Cybersecurity Essentials 3-0-3
The Cybersecurity Essentials course provides a comprehensive introduction to the field of cybersecurity. It is designed for learners interested in pursuing a career in cybersecurity and prepares for a Junior Cybersecurity Analyst role by equipping learners with job skills across three domains: Endpoint Security, Network Defense, and Cyber Threat Management.
Requisite: None.
Type: C

CISC 126 CyberOps Associate 3-2-4
Uncovering cybercrime, cyber espionage, and other networking threats are just some of the exciting cybersecurity jobs spanning across every industry. In this course, you will learn the skills to join this fast-growing field and take advantage of the opportunities found in security operation centers.
In this course you will learn security concepts, security monitoring, host-based analysis, network intrusion analysis, and security policies procedures. This course also aligns with the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework to support consistent communication language for cybersecurity education, training, and workforce development.
Requisite: CISC 116 or CISC 117 or CCST Networking Digital Badge or Certificate.
Type: C

CISC 130 Python Essentials 2-0-2
Python is an essential skill for network automation and network support. The aim of the course is to familiarize students with general computer programming concepts like conditional execution, functions, loops, Python programming language syntax, semantics, and the runtime environment, as well as with general coding techniques and object-oriented programming.
Requisite: None.
Type: C

CISC 161 Cisco Networking Essentials 3-2-4
Cisco Networking Essentials teaches the fundamentals of networking. Students will learn how devices communicate on a network, network addressing, network services, how to build a home network and configure basic security. Additional course topics include configuring devices, and test and troubleshooting networks.
Semester(s) Offered: Fall
Requisite: None.
Type: C

CISC 162 Cisco Network Communication 3-2-4
Cisco Network Communication introduces students to networking architectures, models, protocols and components. These components facilitate the connection of users, devices, applications and data across modern computer networks and through the Internet. By the end of the course, students can build simple Local Area Networks that integrate IP addressing schemes with foundational network security.
Semester(s) Offered: Fall
Requisite: Completion of or concurrent enrollment in CISC 161 or NETW 101, or CCST Networking Badge or Certificate..
Type: C

CISC 163 Cisco Switching and Routing 3-2-4
Cisco Switching and Routing focuses on switching technologies and router operations that support small-to-medium business networks. The course also includes wireless local area networks (WLANs) and security concepts. Students learn fundamental switching and routing concepts. Students will perform basic network configuration and troubleshooting, identify and mitigate LAN security threats, and configure and secure a basic WLAN.
Semester(s) Offered: Spring
Requisite: CISC 162 with a grade of "C" or better.
Type: C

CISC 164 Cisco Enterprise Networking 3-2-4
Cisco Enterprise Networking describes the architectures and considerations related to designing, securing, operating and troubleshooting enterprise networks. This course covers wide area network (WAN) technologies and quality of service (QoS) mechanisms used for secure remote access. It also introduces software-defined networking, virtualization and automation concepts that support the digitalization of networks. Students gain skills to configure and troubleshoot enterprise networks and learn to identify and protect against cybersecurity threats. Students are introduced to network management tools and learn key concepts of software-defined networking, including controller-based architectures and how application programming interfaces (APIs) enable network automation. Students will prepare to take the CCNA certification exam.
Semester(s) Offered: Spring
Requisite: CISC 163 with a grade of "C" or better.
Type: C

CISC 230 DevNet Associate 3-0-3
The Cisco Dev Net Associate course introduces students to software development and automation in modern network environments. It focuses on programming fundamentals, APIs, Cisco platforms, infrastructure automation, and application deployment and security. The course prepares students for the DEV ASC 200-901 certification exam, which validates their ability to develop and maintain applications built on Cisco platforms and automate workflows using Cisco technologies.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

Variable up to
CISC 299 Special Topics in Cisco Networking (4)-0-(4)
This course presents projects and topics in Cisco Networking by simulated experiences, observations, discussions, conferences, readings and individual research. Projects and topics will vary to meet individual interest and needs. Note: Requisite varies by topic.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

Civil Engineering Technology

CET 100 Introduction to Construction 3-0-3
This course is an introduction to civil construction with an emphasis on types of projects, equipment, personnel, materials and methods.
Requisite: None.
Type: C

CET 102 Print Reading for Civil Construction 2-2-3
This course introduces students to civil construction contract documents, including plans and specifications. Emphasis is placed on where to look for and interpret information necessary to construct civil engineering projects. Bluebeam REVU software will be introduced and used to mark-up PDF drawings.
Requisite: None.
Type: C

CET 145 Surveying Fundamentals 2-2-3
This course is designed to introduce fundamental knowledge of surveying methods. Provides the participant with an understanding of the use of the transit, level, tape, Theodolites and total stations, fundamental surveying procedures, and land surveying. After completion of this course students will be able to implement modern survey techniques and skills necessary to present surveying reports in a professional manner. This course is cross-listed with ENGR 251. Students will receive credit for only one of the cross-listed courses, either CET 145 or ENGR 251.
Semester(s) Offered: Spring
Requisite: None.
Type: C

CET 150 Civil Construction Internship 0-0-3
This course is an introduction to civil construction with an emphasis on types of projects, equipment, personnel, materials and methods.
Requisite: None.
Type: C

CET 156 Soils and Aggregates 1-2-2
A laboratory-oriented study of soils testing procedures which identifies the fundamental properties, classification, and behavior of soils and aggregates used in civil engineering and construction applications.
Requisite: None.
Type: C

CET 157 Portland Cement Concrete (PCC) 1-2-2
This course is an introduction to Portland Cement Concrete and includes topics including the plant, delivery and placement of concrete. Special emphasis is placed on testing and quality control.
Requisite: None.
Type: C

CET 158 Asphalt Theory and Design 1-2-2
This course is an introduction to asphalt paving and includes topics including the plant, delivery and placement of asphalt. Special emphasis is placed on tetsing and quality control.
Requisite: None.
Type: C

CET 159 Fluid Mechanics 3-0-3
This is an introduction fluid mechanics; properties of dynamic flow, drainage area and flow calculations.
Requisite: None.
Type: C

CET 200 Civil Construction 3-0-3
This course familiarizes students with basic concepts of construction management with special emphasis on contracts, cost estimating, progress scheduling, engineering economics, and quality control.
Requisite: None.
Type: C

CET 205 Boundary Surveying 2-2-3
This course is designed to introduce fundamental knowledge of land measurement and modern survey application. After completion of this course students will be able to implement modern survey techniques in map making and application relevant to civil engineering projects.
Requisite: ENGR 251.
Type: C

CET 210 Civil 3D Construction 2-4-4
This course introduces the steps necessary for constructing 3-D visuals of infrastructure projects using Autodesk Civil 3-D software. 2-D projects including plans and specifications of constructed roads, buildings & bridges will be used for modelling and identification of assembly parts and products, resulting in a 3-D model.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

CET 245 Data Collection GIS Mapping 2-2-3
This course is designed to familiarize students with the theory of global positioning system and data collection methods associated with geographic information systems.
Requisite: CET 145, CET 205.
Type: C

Communications

COMM 151 Fundamentals of Public Speaking 3-0-3
The basic principles of public speaking, including selecting a subject, determining the specific purpose of the speech, collecting materials, adapting the speech to a particular audience, organizing the speech, wording the speech, using visual materials and delivering the speech. Each student prepares and delivers several informative and persuasive speeches.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-C2 900

COMM 155 Interpersonal Communication 3-0-3
This course will provide the student with the means for becoming a better interpersonal communicator through the study of interpersonal communication theory and the application of major concepts, including language processes; types of verbal and nonverbal communication; oral and visual means of transmitting information; methods of encoding information; social consequences; and creating, maintaining and terminating various types of relationships.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-MC 901

COMM 200 Oral Interpretation 3-0-3
The principles of selecting, cutting and interpreting poetry, prose and drama, and of reading these materials to the class. Also featured is work preparing and taking part in readers theatre presentations.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T, IAI-TA 916

COMM 213 Intro to Public Relations 3-0-3
This course is designed to introduce students to the history and evolution of public relations as a profession. The course looks at the range of responsibilities and functions that public relations practitioners assume in a variety of organizational structures as well as the significant issues and trends that will continue to influence the practice of public relations in the future. Through lectures, discussions, activities and assignments, students will learn about the history and theories of public relations and ultimately have a better understanding of current public relations practices.
Semester(s) Offered: Fall
Requisite: None.
Type: T, IAI-MC 913

COMM 240 Group Communication 3-0-3
Group Communication introduces students to the fundamental principles, skills and dynamics of the group process. The course will give students practical experience in working within the group framework and will focus on problem-solving, leadership, listening, conflict, and interpersonal relationships as they pertain to the overall effectiveness and success of small group discussions and presentations.
Semester(s) Offered: Spring
Requisite: COMM 151 or COMM 155 each with a grade of C or better.
Type: T

COMM 299 Problems in Speech Variable up to (3)-(6)-(3)
Seminar on a special topic or current issue in speech.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

Community Health Worker

CHW 102 Public Health Client Care 1-0-1
This course presents pertinent medical terminology to the profession, client-centered care and communication, cultural awareness and health inequities. Professional communication, conflict resolution, and ethical behaviors will be covered. The course will include health payer systems, patient privacy and consent, and care management concepts.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

CHW 104 Chronic Disease Management 2-0-2
This course provides an overview of chronic disease and epidemiology with relevant medical terminology. Chronic disease pathology, anatomy and physiology, treatment, and healthy maintenance options will be discussed. The course will include client education, health inequities, health outcomes, and documentation of client interaction.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

CHW 106 Behavioral and Mental Health 2-0-2
This course provides an overview of behavioral and mental health conditions with relevant medical terminology. Pathology, contributions, disease progression, treatment options, and support options will be discussed, This course will include client education, coping strategies, medications and related side effects, community health resources, and documentation of client interaction.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

CHW 108 Maternal and Infant Health 2-0-2
This course provides concepts in normal and complicated pregnancy and infant care for the first year of life. Discussions will include anatomical, physiological, and emotional care of the pregnant client, post-partum client, and child. The course will cover special topics including infants with special needs, substance use, vaccinations, and community health resources.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

CHW 110 Clinical Experience 0-8-4
This course is a clinical education experience that provides students an opportunity to practice client care as an individual, small group, or community under the supervision of a practicing community health worker, social worker, or other qualified healthcare professional. Students will intern at the healthcare facility up to 20 hours per week for a maximum of 240 contact hours.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

Computer Aided Design

CAD 100 Print Reading for Tech Trades 3-0-3
This course is an introduction to ASME Y14 drafting standards. Topics such as spatial visualization, orthographic, multiview, oblique, axonometric projection, lettering, sections, geometric construction, auxiliary views, and dimensioning provide the necessary foundation for pictorial communication.
Requisite: None.
Type: C

CAD 101 Intro to Drafting & Design 1.5-3-3
This course is an introduction to sketching and computer aided drafting. Topics such as orthographic, multiview, oblique, axonometric projection, lettering, sections, geometric construction, auxiliary views, and dimensioning provide the necessary foundation for pictorial communication.
Requisite: Concurrent enrollment in or completion of CAD 120.
Type: C

CAD 102 Intermediate Drafting & Design 2-4-4
This course is a continuation of CAD 101, including descriptive geometry, intersections and developments, welding symbols and welding nomenclature, threads and thread nomenclature, working drawings, and introduction to sheet metal bends allowances. Students work in groups to solve problems and create complete sets of drawings simulating the workforce environment.
Requisite: CAD 101, CAD 120.
Type: C

CAD 120 Introduction to AutoCAD 2-4-4
This course is an introduction to Computer Aided Design. It will prepare students to operate the system and understand the applications of CAD to industry standards. Students will create, store, retrieve, edit, and print/plot commercial quality drawings. This course is offered as a dual credit course for area high schools. Credit does go towards the certificate and the associate's degree in Computer Aided Design.
Requisite: Concurrent enrollment in or completion of CAD 101.
Type: C

CAD 200 Manufacturing Processes 3-2-4
This course will introduce the student to various manufacturing processes and reverse engineering. Assembled mechanical components will be unassembled, measurements with use of micrometers, calipers, height gauge, thread gauges, and hole gauges will be taken to create sketches that will be used to create CAD drawings. Students will also be introduced to the various mill, lathe, and CNC equipment as it relates to the manufacturing process.
Requisite: CAD 102, CAD 220.
Type: C

CAD 201 Introduction to Arch Design w/3D 2.5-3-4
This course will introduce the student to plot plans, floor plans, elevation views, and foundation drawings. Students will create the necessary plans to create a scaled model of an architectural structure.
Requisite: CAD 102, CAD 220.
Type: C

CAD 202 Structures Drafting 2-2-3
This course is a continuation of CAD 210. Drawings created in CAD 201 and CAD 210 will be used to create window and door schedules, trusses, and other necessary structural features.
Requisite: CAD 102, CAD 210, concurrent enrollment in or completion of CAD 220.
Type: C

CAD 203 Civil Engineering Drafting 2-2-3
This course covers all aspects of Highway design drafting. Including: typical sections, details, plan and profile drawing, cross sections, drainage basics, and subdivision drawing. Basic survey and roadway calculations are also included..
Requisite: CAD 102, CAD 225.
Type: C

CAD 204 Manufacturing Design 2-2-3
This course is a continuation of CAD 200 with the focus on the design process as it relates to the manufacturing industry. Students will take a problem identified, research and come up with a design. Porotypes will be created with a 3-D printer. A set of working drawings will be created once the porotype functions as designed. Reverse engineering, with the use of precision measuring instruments, will be used to generate sketches. Quality control and inspection will be discussed as it relates to the design process. SolidWorks will be the software utilized in this course.
Requisite: CAD 102, CAD 220, CAD 221.
Type: C

CAD 206 E & I Drafting 2-2-3
This course includes the drafting and design of electrical distribution and instrumentation for the chemical, petroleum, utility and other related industries.
Requisite: CAD 102, CAD 220.
Type: C

CAD 207 Intro to Metallurgy 2-0-2
This course covers physical properties, definitions, abbreviations, and terminology used in making various types of metals.
Requisite: CAD 100.
Type: C

CAD 208 Pipe Drafting 2-2-3
This course reviews aspects of pipe drafting including symbols, piping accessories, equipment, plot plans, piping plans, elevations, sections, isometrics, working drawings and field data.
Requisite: CAD 102, CAD 220.
Type: C

CAD 210 HVAC/EL/Plumb Drafting 2-2-3
This course is a continuation of CAD 201. Drawings created in CAD 201 will be used to create plans and details of the heating, ventilation and air conditioning, power, lighting and plumbing systems for residential/ commercial buildings.
Requisite: CAD 201.
Type: C

CAD 220 Advanced CAD I 2-2-3
An advanced course in Computer Aided Drafting using AutoCAD where the latest industrial standards and procedures will be implemented. Topics include: advance drawing and modification commands, blocks, attributes, layouts and external references.
Requisite: CAD 101, CAD 120.
Type: C

CAD 221 Advanced CAD II 2-2-3
This course begins the semester introducing computer aided design concepts to generate 3D models utilizing Autodesk Inventor software. This course takes an in-depth look at Autodesk Inventor to generate solid model objects. The output of drawings will include detail, assembly, and other presentation drawings including 2D drawings.
Requisite: CAD 220.
Type: C

CAD 222 Autocad Cert Post Assessment 1-0-1
This course will consist of an overview of American Society of Mechanical Engineers Computer Aided Drafting and machine drafting terminology the student has completed during the two years. Emphasis will be placed on machine terminology. Students will take the certification exam at the end of the semester.
Requisite: CAD 200, CAD 221; concurrent enrollment in or completion of CAD 204.
Type: C

CAD 223 Fusion Certification Post Assessment 1-0-1
A successful candidate for this certification is familiar with Fusion 360 features and capabilities, as well as relevant workflows, processes, and project objectives. They are competent using the core tools in the Fusion 360 Design, Render, and Drawing workspaces. They can perform basic Fusion 360 tasks related to component and assembly modeling with limited assistance from peers, product documentation, and support services. They have the ability to answer routine conceptual and applied questions about how to use Fusion 360 without referring basic questions to others. Additionally, they are able to comprehend a technical drawing and have a basic concept of drafting standards.
Requisite: CAD 200, CAD 221; concurrent enrollment in or completion of CAD 204.
Type: C

CAD 224 Inventor Certification Post Assessment 1-0-1
A successful candidate for this certification is familiar with Inventor features and capabilities, as well as relevant workflows, processes, and project objectives. They are competent using the core tools in the inventor Design, Render, and Drawing workspaces. They can perform basic Inventor tasks related to component and assembly modeling with limited assistance from peers, product documentation, and support services. They can answer routine conceptual and applied questions about how to use Inventor without referring basic questions to others. Additionally, they can comprehend a technical drawing and have a basic concept of drafting standards.
Requisite: CAD 200, CAD 221; concurrent enrollment in or completion of CAD 204.
Type: C

CAD 225 MicroStation CAD 2-2-3
The purpose of this of the course is to provide the student with an entry level understanding of the features, limitations, and considerations associated with the operation of MicroStation CAD software.
Requisite: None.
Type: C

CAD 226 Introduction to Geometric Dimensioning & Tolerancing 2-2-3
This course will introduce the student to geometric dimensioning and tolerancing concepts as established by the American Society of Mechanical Engineers (ASME) Y14.5 standards.
Requisite: CAD 102, CAD 220.
Type: C

CAD 230 Advanced 3D Architectural Design 2-2-3
This course focuses on 3-D modeling as it relates to architectural drafting utilizing Revit and 3DMax Autodesk software. Students will create 3-D models from floor plans and elevation views created in CAD 201.
Requisite: CAD 201.
Type: C

CAD 231 Revit Cert Post Assessment 1-0-1
This course will consist of an overview of American Society of Mechanical Engineers Computer Aided Drafting and architectural drafting terminology the student has completed during the two years. Emphasis will be placed on architectural terminology. Students will take the certification exam at the end of the semester.
Requisite: CAD 201, CAD 210, concurrent enrollment in or completion of CAD 202.
Type: C

CAD 232 Structural Detail Mtl Cd & Std 2-0-2
This course is a comprehensive study of steel shapes, grades, sizes, basic codes and AISC (American Institute of Steel Construction) standards. Emphasis is placed on steel formation and properties and routine mathematics and technical calculations associated with steel detailing. Students must have completed college algebra, geometry and trigonometry courses before enrolling.
Requisite: Completion of or concurrent enrollment in CAD 204 or CAD 231..
Type: C

CAD 233 Structural Detail CAD 1-2-2
This course is an introduction to Structural Detailing computer aided drafting using structural modeling 30 building information modeling (BIM) using SDS/2 software. Students will learn how to model structures that incorporate different kinds of building materials, including steel and concrete into a 3D model. Detail, assembly, and other pictorial views for 2D drawings will be covered.
Requisite: Concurrent enrollment in or completion of CAD 232..
Type: C

CAD 234 Basic Structural Detail Draft 2-2-3
This course covers terms, abbreviations and symbols used by structural steel fabricators and by structural steel erectors. Steel erection plans, anchor rod plans, beams, joists and detailed shop fabrication drawings of structural steel beams and columns will be created according to the American Institute of Steel Construction standards. Special emphasis is placed on the design of bolted and welded structural steel connections. It is recommended that students have completed or concurrently enrolled in WLDT 101.
Requisite: CAD 232, CAD 233.
Type: C

CAD 290 Supervised Internship I Variable up to 0-(30)-(6)
This course allows students to earn academic credit for supervised on-the-job experience. Five hours of work per week per semester is required for each hour of credit. The maximum number of internship semester credits permitted in the program is six.
Requisite: Department consent
Type: C

CAD 291 Supervised Internship II Variable up to 0-(30)-(6)
This course allows students to earn academic credit for supervised on-the-job experience. Five hours of work per week per semester is required for each hour of credit. The maximum number of internship semester credits permitted in the program is six.
Requisite: Department consent
Type: C

CAD 292 Supervised Internship III Variable up to 0-(30)-(6)
This course allows students to earn academic credit for supervised on-the-job experience. Five hours of work per week per semester is required for each hour of credit. The maximum number of internship semester credits permitted in the program is six.
Requisite: Department consent
Type: C

CAD 299 Special Topics in Drafting Variable up to (6)-(12)-(6)
The application of drafting principles to specific problems. Case studies, simulations, special problems or problem-solving techniques will be used.
Requisite: Department consent
Type: C

Computer Information Systems

CIS 101 Computer Literacy Skills 1-0-1
This course covers the skills necessary to use a computer, operating system, application software, and the Internet. Students learn to manage files and folders on fixed, removable, and cloud storage, exchange messages and attachments using communications software, search for information and download files from the Internet, and interact with instructor using a learning management system. Additional topics include defending malicious software and the proper and legal use of computers. Keyboarding skill recommended.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

CIS 147 Fonts & Type 3-0-3
This course will teach students the basic concepts and techniques necessary to use type as an element of design and more than just words on a page. The course is designed to look at font faces as well as families, and explores the use of not only the type face but how through the effective use of type tools and color it can interact with other graphics on the page to become a true element of design. Basic computer skills preferred.
Semester(s) Offered: Fall, Summer
Requisite: None.
Type: C

CIS 165 Python Programming 3-0-3
The course introduces the fundamentals of the Python programming language. Students develop business applications written in Python. Procedural programming topics include input, processing, output, variables, decision and repetition structures, lists, and functions written in Python. Object oriented programming topics include creating instances of objects, encapsulation of data attributes and behavior, and class and method definitions. The course also includes an introduction to dictionaries and sets. NOTE: Students who meet the requisite through previous computer programming experience should contact the program coordinator.
Semester(s) Offered: Fall, Spring
Requisite: CIS 180.
Type: C

CIS 168 Graphic Design 3-0-3
This course is designed to teach students the basic design vocabulary, elements, and principles. Individual elements of design such as line, shape, value, texture, space, size and color will be explored as they relate to electronically generated digital formats and print designs. Students will create basic designs in a variety of different software and mediums.
NOTE: File management skills recommended.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

CIS 171 Computer Graphics 3-0-3
This course will teach students advanced design skills in creating vector graphics using Adobe Illustrator. Students will prepare original publications including logos and advertisements. File management skills recommended.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

CIS 172 Photo Manipulation 3-0-3
This course will teach students how to scan, create, modify and reproduce photographs, artwork, and printed advertising pieces. Students will learn how to deal with all types of graphics and prepare them for print or web applications. Students will be exposed to techniques and skills to prepare them for employment as a photo retouch artist, or graphic designer. Students will also be exposed to vector graphic elements and how they interrelate to Adobe Photoshop. File management skills recommended.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

CIS 173 Animation 3-0-3
This class will focus on creating graphic animations utilizing multiple web-based applications. Course curriculum will cover developing buttons and menus, designing interactive web pages, using layers and timeline, animated objects, sound/video, debugging and using HTML. After taking this class, students will have a good understanding of animation design, development, interactivity, usability and how to create user-friendly web and graphic animations. File management skills recommended.
Semester(s) Offered: Spring
Requisite: None.
Type: C

CIS 174 Web Fundamentals I 3-0-3
This course will teach students to create webpages using the latest World Wide Web Consortium standards. They will create multimedia webpages with hypertext links, tables, frames, and forms. They will also be exposed to cascading style sheets, scripting programming, and dynamic content and layout. File management skills strongly recommended.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

CIS 176 Web Fundamentals II 3-0-3
This course allows students to develop a large graphic multimedia website with various industry standard tools. Web authoring, image editing, and website management tools give students a real world prospective.
Note: CIS 174 or HTML coding proficiency skills recommended.
Semester(s) Offered: Spring
Requisite: CIS 174.
Type: C

CIS 177 Web Development I 3-0-3
This course will help students develop basic client-side skills. The techniques include the use of documents, Windows, conditional statements, and loops. Students will work with cookies, string and objects and other advanced functions.
Semester(s) Offered: Fall, Spring
Requisite: CIS 174, CIS 180.
Type: C

CIS 178 Administrative Scripting 3-0-3
This course introduces the fundamentals of a language used to administer client and server operating systems. Students learn to use built-in cmdlets, write and execute scripts, run commands and scripts from remote network locations, and include commands that configure the operating system and manipulate network resources.
Semester(s) Offered: Fall
Requisite: CIS 180.
Type: C

CIS 180 Introduction to Programming 3-0-3
This course is an introduction to computer programming and software development. Students will use a visual development environment and an object oriented programming language to learn fundamental programming concepts. Various predefined object types will be introduced and students will learn how to control object attributes and behaviors as they write event procedures containing variables, conditions, and loops.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

CIS 185 Intro to Information Technology 3-0-3
This course prepares students to be responsible digital citizens. Topics include digital devices and networks, including the Internet and the web, cloud services, operating systems, software design, artificial intelligence, and big data, with a survey of careers in these fields. Students discuss legal and ethical issues so they may navigate digital systems safely and securely.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T

CIS 187 Web Programming I 3-0-3
This course is designed to teach students the basic concepts and skills necessary to create programs using the Web Programming language. Programs will include various control structures and techniques used in creating interactive programs for the Web. Object oriented programming techniques will be used.
Semester(s) Offered: Fall, Spring
Requisite: CIS 180.
Type: C

CIS 195 Introduction to Databases 3-0-3
This course is an introduction to database concepts using relational database management systems. Students are introduced to the fundamentals of the relational model using various relational products and practical case studies. Topics include structured query language, data modeling, database design, and database administration. Products include SQL Server, MySQL, Microsoft Access, and/or Microsoft Excel.
NOTE: File management skills recommended. A computer running Microsoft Windows is required for this course.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

CIS 212 Web Development II 3-0-3
This course introduces the student to web site design, authoring, standards, protocols, tools, and advanced development techniques for client-sided websites.
Semester(s) Offered: Fall
Requisite: CIS 177.
Type: C

CIS 230 Video Graphics 3-0-3
This course will teach students the introduction to digital video storytelling and editing. Students will learn the foundation for video import, export and editing functions. It will incorporate photographs, titles, graphics, animation and audio, capturing, editing, and rendering and digital video.
NOTE: File management skills recommended.
Semester(s) Offered: Fall
Requisite: None.
Type: C

CIS 246 Systems Development & Design 3-0-3
This course introduces the student to basic approaches and methods used in the development of integrated business information systems. Topics include systems study and analysis, specification writing, data flow diagrams, systems flowcharting, data collection techniques, file design, determination of equipment requirements, and reporting methods. Typical business information problems will be analyzed using case studies.
Semester(s) Offered: Spring
Requisite: CIS 185 or CIS 180.
Type: C

CIS 252 C# Programming I 3-0-3
This course introduces the fundamentals of the Visual C# programming language. Students develop Console and Windows Forms applications written in Visual C# using the Visual Studio development environment. Procedural programming topics include variables, control structures, built-in functions and data types, arrays, self-defined subroutines and functions written in Visual

C#. Object oriented programming topics include instantiation, encapsulation, class, property, method, and constructor declarations. The course ends with an introduction to collections, and language integrated queries.
Semester(s) Offered: Fall, Spring
Requisite: CIS 180 or CIS 187.
Type: C

CIS 256 Web Server Programming I 3-0-3
This course students will be introduced on how to plan design, create, and publish dynamic, database-driven websites to a web server.
Semester(s) Offered: Spring
Requisite: CIS 174, CIS 177, CIS 180, CIS 195.
Type: C

CIS 257 Electronic Publishing 3-0-3
This course will teach students to write, assemble and design publications using Adobe InDesign electronic desktop publishing software. Students will prepare publications from four broad categories: reports and proposals; directories, price lists, and catalogs; tables, and charts; and newsletters and magazines. File management skills recommended.
Semester(s) Offered: Spring
Requisite: None.
Type: C

CIS 259 Current Web/Graphic Technology 3-0-3
This course is designed to familiarize students with the most current technology and its impact on web and graphic design. Because this is such a fast-paced field, the course will continually be updated to match the needs of the changing graphic and web design occupations. Topics include content management systems, Adobe suite application integration, current graphic and web development marketing trends and current software applications including graphic design, web design and online content marketing. Interpersonal skills, teamwork, communication skills and ethical considerations applicable to today's graphic and web environment will be developed and practiced.
File management skills recommended.
Semester(s) Offered: Fall
Requisite: None.
Type: C

CIS 262 C# Programming II 3-0-3
This course is a continuation of C# language topics, including exception handling, delegates, inheritance, polymorphism, and interfaces. Students will use the Visual C# language to develop advanced software components and class libraries in Visual Studio.
Semester(s) Offered: Fall
Requisite: CIS 252.
Type: C

CIS 263 Data Access 3-0-3
This course focuses on Microsoft Entity Framework (EF). Students learn to use Code First with reverse engineering to develop EF applications. C# and LINQ are used extensively to query remote SQL Server database sources. Data annotations and Fluent API are used with C# to define database tables, field properties, and relationships. Additional topics include server-side stored procedures, views, data seeding, projections data migrations, and related PowerShell commandlets.
Semester(s) Offered: Spring
Requ**isite: CIS 177, CIS 262, CIS 275.**
Type: C

CIS 264 ASP 3-0-3
In this capstone course, students apply their knowledge of C#, HTML/CSS, LINQ, and SQL to develop an interactive, web-based, shopping cart application using Microsoft ASP .NET Core. Students begin by using Web Forms and ADO .NET with Bootstrap to develop simple apps that present and maintain data from remote SQL Server data sources. Students then advance to ASP MVC and EF Core. MVC topics include Razor views, session state, routing, and model binding.
Semester(s) Offered: Spring
Requisite: CIS 177, CIS 262, CIS 275.
Type: C

CIS 273 Advanced Graphics and Animation 3-0-3
This course is an introduction to one of the industry's most popular motion graphics software tools. Students produce animations through key framing, text, masking, mattes and 3D space. Compositing, video, film and title sequences are emphasized.
Semester(s) Offered: Fall
Requisite: None.
Type: C

CIS 274 R Programming 3-0-3
In this course, students will begin by learning the basics of RStudio, the core elements of the R language, and how to utilize the eidyverse package for data analysis. They will then advance their skills by mastering techniques for creating impactful visualizations, importing data from diverse sources, cleaning and preparing data, and enhancing visualizations for professional presentation. Through the course, students will apply their skills to real-world case studies, including analyses of US election polling data, wildfire data from the US Forest Service, and NBA basketball shot data, equipping them with practical experience and confidence in data analysis.
Semester(s) Offered: Fall
Requisite: CIS 180.
Type: C

CIS 275 SQL 3-0-3
This course introduces students to Structured Query Language, the universal language used to control all relational database management systems. Students will learn to create, manipulate, and query data in a database using SQL commands. Windows PC Recommended.
Semester(s) Offered: Fall, Spring
Requisite: CIS 195.
Type: C

CIS 277 Web Technologies 3-0-3
This course expands upon students' knowledge of front-end development by delving into modern production-grade front-end frameworks and libraries. Students start by reviewing foundational JS concepts with a focus on functional programming. The course also introduces some basic database concepts, so that we can leverage a back-end service (e.g. Supabase) to build a robust app. primarily. The course then progresses from building a simple counter system all the way to building full-blown applications with authentication and database operations.
Semester(s) Offered: Fall
Requisite: CIS 177.
Type: C

CIS 287 Web Programming II 3-0-3
This course is designed to expand the subject material covered in the Web Programming I class. Students will become familiar with file and network I/O, generics, lambdas, threading/concurrency, and database access. Students will use all these to develop text-based interactive applications.
Semester(s) Offered: Fall, Spring
Requisite: CIS 187.
Type: C

CIS 288 Web Server Programming II 3-0-3
This course students will use the skills learned in previous classes to plan, design, create, and publish dynamic, database-driven websites to a web server. The work completed in this course should demonstrate the student's ability to design and manage a complex website.
Semester(s) Offered: Spring
Requisite: CIS 256.
Type: C

CIS 297 CIS Internship 1-10-3
The student will complete a special assignment with an approved employer for 160 hours of related work experience. Evaluation of the student's performance will be a cooperative effort between the employer and the instructional staff. The primary purpose of the field project is to give the student an opportunity to gain meaningful work experience. NOTE: Minimum GPA of 2.5. Students should be enrolled in the last semester of study prior to graduation.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

CIS 299 Topics in CIS Variable up to (4)-0-(4)
CIS 299 is designed to enhance the student's understanding of a particular information processing technology or application. Current technologies, software, and cases relating to the information processing environment will be presented and discussed.
Note: Requisite varies by topic.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

Construction Carpentry

CCA 116 Health & Safety I 1.5-1-2
This course enhances the student's ability to recognize and address hazards involved in residential, commercial, and industrial construction work. This class is designed to help meet the industry demand for a trained workforce. It addresses OSHA safety regulations and safe operating practices related to hazards in construction and the safe use of elevated work platforms.
Requisite: None.
Type: C

CCA 117 Shop Orientation 1.5-1-2
This course is an introductory course whose purpose is to help the beginning-level apprentice become proficient in basic print reading. The apprentice will also be able to recognize and address hazards involving the use of shop power tools as they construct various projects. An introduction is given to the elements of prints, such as lines, symbols, dimensions and notes. Emphasis is placed on both construction drawings (plans, elevations, sectionals, details, and specifications) and shop safety, through lecture and classroom exercises.
Requisite: None.
Type: C

CCA 118 Concrete Formwork I 1.5-1-2
This course is the first of two courses designed to introduce students to basic hands-on concrete forming applications and systems, hardware use, multiple anchoring procedures, use of concrete terminology, and provide the skills needed for psychomotor techniques in concrete construction. Students will also learn how to work with others to make the job more efficient. Students will achieve building layout procedures, establish elevations, install footings formwork, and foundation formwork. Students will also be given an opportunity to read forming diagrams.
Requisite: None.
Type: C

CCA 119 Concrete Formwork II 1.5-1-2
This course is the second of two courses designed to introduce basic hands-on concrete forming applications and systems, hardware use, multiple anchoring procedures, use of concrete terminology, and provide the skills needed for psychomotor techniques in concrete construction. Students will also learn how to work with others to make the job more efficient. Students will achieve building layout procedures, establish elevations and install foundations. Students will be given the opportunity to read forming diagrams. Students will also be introduced to commercial concrete stair forming, insulated concrete forms, piling, and commercial footings and foundations.
Requisite: None.
Type: C

CCA 126 Residential Framing I 1.5-1-2
The Residential Construction course will cover basic home building procedures for sub floor and wall framing. Emphasis will be placed on preparing students to start the lay-out process required for residential home building. Procedures followed and taught will be current field methods used by today's residential carpenters.
Requisite: None.
Type: C

CCA 127 Residential Framing II 1.5-1-2
The Residential Construction course will cover basic home building procedures including the roof framing and basic stair building. Procedures followed and taught will be current field methods used by today's residential carpenters. This class consists of classroom lecture and study, along with hands on shop time constructing a small house with stairs and a hip roof.
Requisite: None.
Type: C

CCA 128 Interior Systems Framing I 1.5-1-2
This course is the first of two courses covering interior systems for carpenters. The emphasis will be on rough framing with metal studs. Students will gain knowledge and develop skills necessary to read commercial prints, layout projects with a laser plumb, level, and square, to be used to erect their projects with metal studs. Coursework will be performed according to the latest codes and the USG Cooperation Handbook.
Requisite: None.
Type: C

CCA 129 Interior Systems Framing II 1.5-1-2
This course is the second of two courses covering interior systems for carpenters. The emphasis will be on rough framing and finishes with metal studs. In this course, students gain knowledge and skills necessary to read commercial prints, layout projects with a laser plumb, level, erect a project with metal studs, plumb, level, and square. Student projects will consist of walls with doors and borrow lights, ceiling joists that overhang to the front, soffits under overhangs, over framing to simulate a storefront, install acoustical ceilings, level, square, develop correct elevation, install drywall, drywall trims per plan, install hollow metal doors, and frames per plan. These activities will be completed according to the latest codes and USG handbook.
Requisite: None.
Type: C

CCA 165 Construction Carpentry Internship I 0-20-4
The Construction Carpentry Internship I course has been developed and established as the on-the-job component of the Construction Carpentry Apprenticeship program. This course will reinforce both knowledge and skills of the apprentice by hands-on experience relating to topics such as the interpretation of drawings and layout, rough framing, roof framing, exterior and interior finish work for the modern home or light commercial building, heavy timber construction and reinforced concrete structures. All of the on-the-job work-related activities will be performed under the direct supervision of a journeyman carpenter.
Requisite: None.
Type: C

CCA 236 Millwright Basics I 1.5-1-2
A mechanical print is a detailed plan of what is to be installed, constructed, or assembled. It contains all of the information necessary to complete a project and may include multiple views, detailed instructions, and precise information about the size and promotion of what is to be built. Reading mechanical prints correctly helps ensure that project is completed properly. This workshop discusses how to read a mechanical print. It introduces the type of prints that may be encountered by a millwright. It also describes the information provided on a print and how to use the information effectively. This course will also address OSHA safety regulations and safe work practices related to hazards in millwright work. Training will be delivered through classroom instruction and a series of hands-on exercises designed to evaluate the proficiency of the student.
Requisite: None.
Type: C

CCA 237 Millwright Basics II 1.5-1-2
Millwright Basics II class is an introduction course whose purpose is to help the beginning-level apprentice become proficient in the safe and accurate manipulation of the tools specific to millwright field. The apprentice will learn to recognize and address hazards involving the use of millwright power tools as they construct various shop projects. An introduction is given to the jobs and tasks specific to millwright trade, as modern machinery is manufactured according to very exact sizing, weight, and quality standards. For this reason, it is vital that the millwright possess the skills necessary to use precision tools necessary to perform safely and effectively on any jobsite. Training will be delivered through classroom instruction and a series of hands-on exercises designed to evaluate the proficiency of the student. Written quizzes and a final exam will also be utilized to evaluate the student's ability to identify specific tools and manipulate them to a job-like setting.
Requisite: None.
Type: C

CCA 238 Carpentry Welding Basics I 1.5-1-2
This is the first course of two courses designed to introduce students to basic hands on cutting and welding processes. Students will also learn this course will provide welding and cutting safety, welding terms and definitions, weld positions, joint design, weld symbols, weld discontinuities, base and

filler metal identification. Students will be provided the skills needed for psychomotor techniques in commercial welding. Students will also learn how to work with others to make the job more efficient.
Requisite: None.
Type: C

CCA 239 Carpentry Welding Basics II 1.5-1-2
This is the second course of two whose purpose is to introduce welder qualification and certification, American Welding Society testing procedures and standards, nondestructive testing, and destructive testing. Vertical up shielded metal arc welding will be the main concentration.
Requisite: None.
Type: C

CCA 246 Safety Orientation I 1.5-1-2
This course is one of two courses designed to introduce students to the safe use of elevated work platforms or scaffolding. This course enhances the student's ability to recognize and address hazards involved in residential, commercial, and industrial construction work. This class is designed to help meet the industry demand for a trained workforce. It addresses OSHA safety regulations and safe operating practices related to hazards in construction and the safe use of scaffolding. Scaffolding Erection provides information and guidance for calculating capacity and contributory leg loads. It introduces criteria for all scaffold types and provides methods for platform construction and assembly techniques for frame, tube and clamp, and system scaffolds. It discusses scaffold access and egress and safe use guidelines, including fall protection and falling object protection. It presents the training requirements for scaffold erectors, dismantlers, and users and provides clarification of the difference between a competent person and a qualified person.
Requisite: None.
Type: C

CCA 247 Safety Orientation II 1.5-1-2
This course is intended to supplement the hands-on experience gained in instruction on rigging techniques and hardware. It introduces the subject by beginning with the history of rigging, followed by information about safety, wire rope, chain construction, slings, hardware, and knot-tying techniques. This will be followed by discussion on rigging procedures that cover common hitch configuration, hardware and sling attachments, working with different types of cranes, and directing crane movements with hand and voice signals used by riggers to signal crane operators.
Requisite: None.
Type: C

CCA 248 Interior/Exterior Trim 1.5-1-2
The Interior/Exterior trim class will cover basic procedures and proven methods of installation for vinyl siding, kitchen cabinets, and finish trim moldings. Procedures followed and taught will be current field methods used in the construction industry. This class consists of classroom work along with hands-on shop experience, although shop time will make up the majority of the class, students will learn safety, procedures, terminology, and estimating in the classroom before proceeding to the shop area.
Requisite: None.
Type: C

CCA 249 Intermediate Prints 1.5-1-2
This course will provide the student with print reading experience in residential and light commercial construction. Print reading fundamentals, construction materials, light frame construction utilized in residential, and light commercial building are covered in detail. Heavy emphasis is placed on residential, commercial building, and the Americans with Disabilities Act code requirements. The student will be introduced to job specifications and how they relate to job prints, mechanical and electrical prints, and schedules for all interior finish products. The course will prepare the student with realistic project experience for future employment.
Requisite: None.
Type: C

CCA 270 Construction Carpentry Internship II 0-20-4
The Construction Carpentry Internship II course has been developed and established as the on-the-job intermediate component of the Construction Carpentry Apprenticeship program. This course will reinforce both knowledge and skills of the apprentice at an intermediate level by hands-on experience relating to topics such as the interpretation of drawings and layout, rough framing, roof framing, exterior and interior finish work for the modern home or light commercial building, heavy timber construction and reinforced concrete structures. All of the on-the-job work-related activities will be performed under the direct supervision of a journeyman carpenter.
Requisite: None.
Type: C

CCA 290 Construction Carpentry Internship III 0-20-4
The Construction Carpentry Internship III course has been developed and established as the on-the-job advanced component of the Construction Carpentry Apprenticeship program. This course will reinforce both knowledge and skills of the apprentice at an advanced level by hands-on experience relating to topics such as the interpretation of drawings and layout, rough framing, roof framing, exterior and interior finish work for the modern home or light commercial building, heavy timber construction and reinforced concrete structures. All of the on-the-job work-related activities will be performed under the direct supervision of a journeyman carpenter.
Requisite: None.
Type: C

CCA 299 Special Topics in Construction Carpentry Variable up to (4)-(8)-(4)
This course is designed to familiarize students with special topics or problems in the Construction Cement Masons' field, to provide them with knowledge and ability to deal effectively with those topics or problems in relation to their specific requirements.
Requisite: Department consent
Type: C

Construction Cement Mason

CMA 113 Construction Cement Mason Apprenticeship I 3-2-4
This course will acquaint the student with some of the practical knowledge of the cement masons trade. Material covered in this first course will include information about job opportunities, concrete materials and quality mix concrete.
Requisite: None.
Type: C

CMA 114 Introduction To Construction Plastering 3-2-4
This course will explore exterior and interior plastering systems common to the industry. Instruction and demonstration will introduce the student to the applied math, tools, and safety regulations of all new employees.
Requisite: None.
Type: C

CMA 123 Construction Cement Mason Apprenticeship II 3-2-4
This course will introduce the student to information concerning tools, placing and finishing concrete slabs, how to estimate during hot weather, and concreting in cold weather.
Requisite: None.
Type: C

CMA 124 Construction Plastering Materials & Systems 3-2-4
This course is an extension of CMA 114. Materials will include working conditions, exterior insulation and finishing systems, backing materials and an overview of scaffolding systems.
Requisite: None.
Type: C

CMA 133 Construction Cement Mason Apprenticeship III 3-2-4
This course is designed to give the second year apprentice practical experience in handling transit level and laying out buildings. The care and use of the hand tools will also be covered.
Requisite: None.
Type: C

CMA 134 Construction Plastering Principles 3-2-4
This course is an extension of CMA 124. Materials will include working conditions, exterior insulation and finishing systems, backing materials and an overview of scaffolding systems.
Requisite: None.
Type: C

CMA 144 Construction Plastering Applications 3-2-4
This course will introduce materials used in construction plastering. Materials will include veneer plaster, grouting, and fireproofing.
Requisite: None.
Type: C

CMA 245 Construction Cement Mason Apprentice IV 3-2-4
This course is designed to give the second-year apprentice practical knowledge in math, concrete figuring and blueprint reading. Also included will be job-site safety and safe work practice.
Requisite: None.
Type: C

CMA 254 Plaster Substrates and Finishes 3-2-4
This course will introduce the student to substrates and various plastering materials, application and mixing procedures.
Requisite: None.
Type: C

CMA 255 Construction Cement Mason Apprenticeship V 3-2-4
This course will include information concerning drafting, types of form layouts and the setting of forms. The course will also include new materials and methods developed for the industry.
Requisite: None.
Type: C

CMA 264 Advanced Plastering Techniques 3-2-4
This course is a continuation of CMA 254. It will cover plastering finishes, applying plaster and the finishing techniques for each type of application. An introduction to blueprint reading will also be included.
Requisite: None.
Type: C

CMA 265 Construction Cement Mason Apprenticeship VI 3-2-4
This course will acquaint the student with practical knowledge of cement troweling machines, CMT paving and blueprint reading. A short course in first aid will also be included.
Requisite: None.
Type: C

CMA 274 Principles of Plaster Material 3-2-4
This course will include cement plaster on metal lath cement block and bricks, below grade foundations. It will include an introduction to molding and ornamentation using plaster.
Requisite: None.
Type: C

CMA 284 Plaster Molds and Ornamentation 3-2-4
This course will include an introduction to plaster ornamentation using various techniques. It will also include Blueprint Reading and Estimating for plasterers.
Requisite: None.
Type: C

CMA 299 Special Topics for Cement Masons Variable up to (4)-(8)-(4)
This course is designed to familiarize students with special topics or problems in the construction cement masons' field, to provide them with knowledge and ability to deal effectively with those topics or problems in relation to their specific requirements.
Requisite: None.
Type: C

Construction Ironworker

IWA 119 Construction Ironworker Apprentice I 3-2-4
The ironworker apprentice in the first course is introduced to the basic information about his trade. Materials covered will include basics in blueprint reading, welding, safety and rigging.
Requisite: None.
Type: C

IWA 129 Construction Ironworker Apprentice II 3-2-4
This course is basically an extension of the first semester course. More information is given in blueprint reading, welding, safety and rigging.
Requisite: None.
Type: C

IWA 139 Construction Ironworker Apprentice III 3-2-4
This is the first section course of an apprentice's second year training. Instruction will be in trade math, blueprints, structural, safety, welding and rigging.
Requisite: None.
Type: C

IWA 249 Construction Ironworker Apprentice IV 3-2-4
This is the second semester of the apprentice's second year training. This instruction will include information in trade math, blueprints, structural, safety, welding and rigging. Although the units of study are the same, the material is more detailed and technical each semester.
Requisite: None.
Type: C

IWA 259 Construction Ironworker Apprentice V 3-2-4
This course is the first semester of the ironworker's third year. The material covered will be included in three basic units of instruction. These units of instruction are blueprints and drawings, welding, structural, reinforcing, safety and ornamental ironwork.
Requisite: None.
Type: C

IWA 269 Construction Ironworker Apprentice VI 3-2-4
This course is the second semester of the ironworker's third year. This course completes the apprentices formal classroom related training. The units of instruction will be the same as used in IWA 259. The material offered in this course, along with new materials, will include a review of the five previous courses of study.
Requisite: None.
Type: C

IWA 279 Construction Ironworker Apprentice VII 3-2-4
This course will supplement the fourth year apprentices on-site work experience with classroom instruction. The course will include reading blueprints for metal buildings; advanced rigging, welding and safety as they relate to metal buildings will also be addressed.
Requisite: None.
Type: C

IWA 289 Construction Ironworker Apprentice VIII 3-2-4
This course will supplement the fourth year apprentices on site work experience with classroom instruction. The course will include advanced blueprint reading, commercial glass installation, commercial fencing, welding and safety training.
Requisite: None.
Type: C

IWA 299 Special Topics in Ironworking Variable up to (4)-(8)-(4)
This course is designed to familiarize students with special topics or problems in the Construction Ironworkers' field, to provide them with knowledge and ability to deal effectively with those topics or problems in relation to their specific requirements.
Requisite: None.
Type: C

Construction Management

CMT 100 Introduction to Const. Management 2-0-2
This course introduces students to Construction Industry and Trends, Design and Construction Project Phases, Construction Contracts, Project Management, Estimating, Scheduling, Project Controls, Project Administration, Quality Control and Health/Safety, BIM and Sustainability.
Requisite: None.
Type: C

CMT 102 Construction Documents 2-2-3
This course introduces students to construction contract documents. Emphasis is placed on where to look for and interpret information necessary to construct a building and associated site work. The course exposes students to several residential and light commercial construction projects. Bluebeam REVU software will be introduced and used to mark-up PDF drawings.
Requisite: None.
Type: C

CMT 103 Construction Materials & Methods I 3-0-3
This course is a comprehensive study of the materials and methods used in building construction. Emphasis is placed on structural materials including soil, wood, steel, masonry and concrete.
Requisite: None.
Type: C

CMT 105 Computer Apps for Construction 3-0-3
An introduction to software used in the construction industry. Students learn to apply software applications relevant to the construction industry such as but not limited to MS Windows environment manipulations, Internet research tools spreadsheets, word processing, visualization and presentation software, project management applications, and project scheduling software. The course takes place in a structured laboratory setting with practice sessions consisting of examples relevant to the operation of a construction company and project management in general.
Requisite: None.
Type: C

CMT 106 Mathematics for Construction 3-2-4
Topics of fundamentals of algebra, operations of signed numbers, exponent and square roots, triangular trigonometry and metric conversation with emphasis on the mathematical applications commonly found in the construction industry.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

CMT 145 Building Trades Craft Survey I 3-2-4
The construction students will explore the basic trades' skills required to complete a modern building project. The course will survey carpentry, ironwork, laborer's work, sheetmetal and concrete finishing.
Requisite: None.
Type: C

CMT 146 Building Trades Craft Survey II 3-2-4
The construction students will explore the basic trades' skills required to complete a modern building project. The course will survey painting, bricklaying, electrical and plumbing/pipefitting.
Requisite: Concurrent enrollment in or completion of CMT 145 or Coordinator approval.
Type: C

CMT 147 Energy Auditor 3.5-1-4
This course provides students with training in preparation for the Building Performance Institute written exam for the BPI Building Analyst Professional Certification. This course is based on the core competencies for the Weatherization Assistance Program developed by the Weatherization Trainers Consortium. The course also is compliant with the BPI Building Analyst Professional Standards. Instruction will include principles of energy, energy and the building shell, air leakage, insulation, windows and doors, heating, cooling, water heating, health and safety and energy audits. Students will complete the following coursework for seminars and certifications in: Lead for Renovation EPA and OSHA 10-Hour Card. The BPI certification written test is given the following day after the classroom training is completed. The BPI certification is contingent upon the successful completion of one field audit.
Requisite: Department consent
Type: C

CMT 148 Weatherization Specialist 3.5-1-4
This course provides students with training in preparation for the Building Performance Institute written exam for the BPI Envelope Professional Certification or Residential Building Envelope Whole House Air Leakage Control Installer. This course also prepares students for the BPI field exam portion of the certification. This course is based on the review core competencies for the Weatherization Assistance Program developed by the Weatherization Trainers Consortium. The course also is compliant with the BPI Building Analyst Professional Standards. Instruction will include review principles of energy, energy and the building shell, air leakage, insulation, windows and doors, heating, cooling, water heating, health and safety and energy audits. The BPI certification is contingent upon the successful completion of one field audit and successful completion of written examination.
Requisite: Department consent
Type: C

CMT 149 Weatherization II 0.5-2-1.5
This course provides students with training in preparation for the Building Performance Institute oral and field practicum evaluation for RBE-WHALCI certification. This course is compliant with BPI RBE-WHALCI standards. Instruction will include insulation, air leakage, duct insulation, duct leakage, air barriers, IC and non-IC rated lighting, door seals and gaskets, and material selection for proper dams. The BPI certification oral and practicum exam is given within 14 days of completion of the course. The BPI certification is contingent upon the successful completion of oral and field practicum. The course will also in OSHA Health and Safety training.
Requisite: Department consent
Type: C

CMT 150 Construction MGT Internship I 0-20-3
This course provides experience in a construction management discipline, including, but not limited to: Safety, Quality Control, Scheduling or Estimating. Students must be employed in a construction related field and monitored by experienced supervisory personnel. Program Coordinator approval is required.
Requisite: Department consent
Type: C

CMT 151 Construction MGT Internship II 0-20-4
Provides experience in construction management. Each student will be required to be employed in a construction related field. The student will be monitored by experienced supervisory personnel. The student will be required to document and work a minimum of 240 to 320 clock hours per semester.
Requisite: Department consent
Type: C

CMT 152 Construction Materials & Methods II 3-0-3
A comprehensive study of the materials and methods used in building construction. Emphasis on closure and finishes.
Requisite: None.
Type: C

CMT 153 Construction Estimating 2-2-3
This course introduces students to the estimating process. Emphasis is placed on plan interpretation and breaking down a project into individual "scopes of work" where individual pieces are quantified and priced. Microsoft EXCEL is used to construct an integrated database including a summary sheet and a number of detail sheets.
Requisite: CMT 102.
Type: C

CMT 200 Virtual Construction I 2-4-4
This course introduces students to steps necessary for constructing 3-D virtualized buildings and sites using Autodesk REVIT software. 2-D projects including plans and specification of constructed buildings will be used for modeling and identification of assembly parts and products, resulting in a 3-D model. This process is intended to prepare students for 4-D and 5-D Building Information Modeling in an advanced course.
Requisite: CMT 105.
Type: C

CMT 201 Construction MGT Internship III 0-20-4
Provides experience in construction management. Each student will be required to be employed in a construction related field. The student will be monitored by experienced supervisory personnel. The student will be required to document and work a minimum of 240 to 320 clock hours per semester.
Requisite: Department consent
Type: C

CMT 204 Basic Engineering for Builders 3-0-3
The course will provide the student with a basic understanding of engineering principles that are used to build a building.
Requisite: CMT 102, CMT 103, GT 105.
Type: C

CMT 205 International Building Code 3-0-3
The scope of this code covers all buildings except detached one- and two-family dwellings and townhouses not more than three stories in height. This comprehensive code features time-tested safety concepts, structural, and fire and life safety provisions covering means of egress, interior finish requirements, comprehensive roof provisions, seismic engineering provisions, innovative construction technology, occupancy classifications, and the latest industry standards in material design. It is founded on broad-based principles that make possible the use of new materials and new building designs.
Requisite: CMT 152.
Type: C

CMT 206 Building Systems 3-0-3
This course introduces students to mechanical, electrical and plumbing systems. Students will develop basic vocabulary and understanding of how these commonly used systems function. Related building and specialty codes, regulatory requirements, commissioning and sustainable building principles will be discussed.
Requisite: CMT 102, CMT 103.
Type: C

CMT 242 OSHA Certification 1-0-1
The OSHA Outreach Training Program for Construction Industry provides training for entry-level workers and employers on recognition, avoidance, abatement, and prevention of safety and health hazards in workplaces in the Construction Industry. Supplemental topics will be added to ensure student lab safety awareness. This program also provides information regarding workers" rights, employer responsibilities, and how to file a complaint. Through this training, OSHA helps to ensure that workers are more knowledgeable about workplace hazards and their rights. Students who successfully complete this course receive an OSHA 10-Hour Construction or General Industry wallet card from the OSHA Training Institute (OTI).
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

CMT 243 Construction Safety 2-0-2
OSHA 10 Training topics for entry-level work force will be expanded upon through discussion, research and a major writing assignment. Emphasis will be placed on recognition, avoidance, abatement, and prevention of safety and health hazards in the workplace. Additional information related to worker rights, employer responsibilities and how to file a complaint will emphasized.
Semester(s) Offered: Fall, Spring
Requisite: Completion of or concurrent enrollment in CMT 242.
Type: C

CMT 244 Occupational Safety & Health I 3-0-3
Familiarizes students with a total accident prevention program and safety movement. Concepts of safety education with special emphasis placed on obligations, responsibilities, principles and practices necessary in understanding accident prevention. For those individuals interested in or having direct responsibilities for the implementation and/or operation of an accident-prevention program.
Requisite: None.
Type: C

CMT 251 Construction MGT Internship IV 0-20-4
Provides experience in construction management. Each student will be required to be employed in a construction related field. The student will be monitored by experienced supervisory personnel. The student will be required to document and work a minimum of 240 to 320 clock hours per semester.
Requisite: Department consent
Type: C

CMT 257 Construction Planning & Scheduling 2-2-3
This course introduces students to the scheduling process. Emphasis is placed on plan interpretation and creation of a logical sequence of events resulting in an efficiently built project. Microsoft Project is the primary tool used to build construction project schedules for several light-commercial projects.
Requisite: None.
Type: C

CMT 258 Contracts & Claims 3-0-3
This course introduces students to the legal aspects of construction and problems that can arise and result in litigation. Each topic presents one or more case studies used to reinforce concepts related to the construction process. Topics include contract language, liability, tort liability, contract documents and breach of contract.
Requisite: None.
Type: C

CMT 265 Virtual Construction II 2-2-3
This course is a continuation of CMT 200, Virtual Construction I, and introduces students to 4-D (Schedule) and 5-D (Cost) associated with the virtual 3-D model. A 3-D model is used to analyze data for the purpose of system integration, clash detection, constructability modeling, estimating, scheduling and other related pre-construction tasks. Autodesk REVIT and Navisworks are introduced as the primary tools for this course.
Requisite: CMT 200.
Type: C

CMT 268 Project Administration 2-0-2
This course is a comprehensive overview of the building life cycle. Construction process documentation is reinforced through careful study of contractual requirements and industry standard guidelines used to create construction documents.
Requisite: CMT 153.
Type: C

CMT 299 Problems in Construction Variable up to (4)-(8)-(4)
Application of construction principles to specific problems through case studies, special projects or problem-solving procedures.
Requisite: None.
Type: C

Construction Painting & Decorating

PDA 117 Painting & Decorating Apprentice I 3-2-4
This course is designed to introduce the first-year apprentice to painting and decorating. He/she will be given information and instruction in the fundamentals of the trade to supplement his/her on-the-job training.
Requisite: None.
Type: C

PDA 127 Painting & Decorating Apprentice II 3-2-4
This course is designed to introduce the first-year apprentice to the painting and decorating trade. He/she will be given information and instruction in the fundamentals of the trade to supplement his/her on-the-job training. This course is an extension of PDA 117.
Requisite: None.
Type: C

PDA 137 Painting & Decorating Apprentice III 3-2-4
This course is designed to provide the more experienced apprentice instruction in the phase of the trade that requires detailed information about materials and their uses. The second-year course is divided into two parts. Material covered will include color, tinting, graining, dyes and sealers.
Requisite: None.
Type: C

PDA 147 Painting & Decorating Apprentice IV 3-2-4
This course is designed to give the more experienced apprentice instruction in the phases of trade that require detailed information about materials and their uses. Material to be covered will include wall preparation, scaffolding and safety.
Requisite: None.
Type: C

PDA 257 Painting & Decorating Apprentice V 3-2-4
This third year course is designed for the more experienced apprentice. Information covered in this course will include procedures seldom used in the trade. Blueprint reading and estimating will also be covered. This will be a two-semester course.
Requisite: None.
Type: C

PDA 267 Painting & Decorating Apprentice VI 3-2-4
Information covered in this course will include procedures seldom used in the trade. Blueprint reading and estimating will also be covered. This course is an extension of PDA 257.
Requisite: None.
Type: C

PDA 278 Painting & Decorating Apprentice VII 3-2-4
This course will supplement the fourth-year apprentices on-site work experience with classroom instruction. The course will include blueprint reading, types of wall paper and their application, power equipment used for painting, specialized painting techniques and safety training.
Requisite: None.
Type: C

PDA 288 Painting & Decorating Apprentice VIII 3-2-4
This course will supplement the fourth-year apprentices on-site work experience with classroom instruction. The course will include power cleaning, hazardous waste collections/disposal, dry wall taping and finishing, sign painting, estimation, and safety.
Requisite: None.
Type: C

PDA 299 Special Topics in Construction Painting Variable up to (4)-(8)-(4)
This course is designed to familiarize students with special topics or problems in the pipefitting/plumbers' field, to provide them with knowledge and ability to deal effectively with those topics or problems in relation to their special requirements.
Requisite: None.
Type: C

Construction Sheetmetal

SMA 114 Construction Sheetmetal Apprenticeship I 3-2-4
This course will acquaint the student with some of the basic knowledge of the sheetmetal trade. Materials covered in the first course will include information about tools, equipment and pattern development.
Requisite: None.
Type: C

SMA 124 Construction Sheetmetal Apprenticeship II 3-2-4
This course will introduce the student to more related information about tools, equipment, sheetmetal fittings and their fabrication.
Requisite: None.
Type: C

SMA 134 Construction Sheetmetal Apprenticeship III 3-2-4
This course is designed to give the second-year apprentice practical experience working with shop-work problems. Items covered will include layout and welding of sheetmetal fittings.
Requisite: None.
Type: C

SMA 144 Construction Sheetmetal Apprenticeship IV 3-2-4
This course is designed to give the second-year apprentice practical experience working with shop-work problems. Items covered will include round layouts, 45- and 90-degree tees, tools, and equipment.
Requisite: None.
Type: C

SMA 154 Sheet Metal Applications 0-2-1
This course is an extension of SMA 114 and will include the use of basic hand tools common to the trade, and the construction and fabrication of sheet metal objects with the use of simple pattern development templates.
Requisite: None.
Type: C

SMA 164 Sheet Metal Duct Design 0-2-1
This course is an extension of SMA 124 and will include the use of hand tools common to the trade and the construction of fittings and duct work corrections common to the sheet metal trade.
Requisite: None.
Type: C

SMA 174 Sheet Metal Fastening Systems 0-2-1
This course is an extension of SMA 134 and will include the use of welding and soldering to fabricate sheet metal fittings.
Requisite: None.
Type: C

SMA 184 Sheet Metal Construction 0-2-1
This course is an extension of SMA 144 and will include pattern development for 45- and 90-degree elbows and fittings.
Requisite: None.
Type: C

SMA 214 Sheet Metal Caulks and Sealant 0-2-1
This course is an extension of SMA 264 and will include the application of brazing as a water seal along with the type of sealing materials.
Requisite: None.
Type: C

SMA 224 Sheet Metal Layout 0-2-1
This course is an extension of SMA 274 and will include triangulation pattern, development problems, and fabrication using MIG welding.
Requisite: None.
Type: C

SMA 234 Sheet Metal Installation 0-2-1
This course is an overview of previous work and a review of previous experience. Activities will include pattern development, welding, brazing and fabrication.
Requisite: None.
Type: C

SMA 244 Sheet Metal Pattern Development 0-2-1
This course is an extension of SMA 254 and will include problems in radial line development of cones and intersections. Gas tungsten arc welding will be used for fastening.
Requisite: None.
Type: C

SMA 254 Construction Sheetmetal Apprenticeship V 3-2-4
This course is designed to give the third-year apprentice practical shop work problems concerning radial line development and heli-arc welding.
Requisite: None.
Type: C

SMA 264 Construction Sheetmetal Apprenticeship VI 3-2-4
This course is designed to give the third-year apprentice practical shop work problems concerning welding, brazing and radial line pattern development.
Requisite: None.
Type: C

SMA 274 Construction Sheetmetal Apprenticeship VII 3-2-4
This course is designed to give the apprentice experience and knowledge in new materials and methods used in the sheetmetal trade. Layout problems involving triangulation will be given. MIG welding, cutting and brazing will also be covered.
Requisite: None.
Type: C

SMA 284 Construction Sheetmetal Apprenticeship VIII 3-2-4
This course will include a review of all work covered in the previous seven semesters of apprenticeship. It will also include shortcut methods of triangulation layout. A welding test will also be given.
Requisite: None.
Type: C

SMA 299 Special Topics in Construction Sheetmetal Variable up to (4)-(8)-(4)
This course is designed to familiarize students with special topics or problems in the construction sheetmetal workers' field, to provide them with knowledge and ability to deal effectively with those topics or problems in relation to their specific requirements.
Requisite: None.
Type: C

Culinary Arts and Food Management

CUL 101 Introduction to Culinary Arts 1-0-1
This course is designed to introduce students to the food service industry and the culinary arts program at SWIC. Students will explore the importance of hospitality and culinary organizations such as the National Restaurant Association Educational Foundation and American Culinary Federation and what the organizations mean to their education/industry career. Class time will focus on uniform requirements, knife skills, equipment safety training, myculinarylab and material data safety sheets training. An understanding of program expectations will be outlined. This course must be completed with a passing grade before students can enroll in lab classes.
Requisite: None.
Type: C

CUL 105 Food, Beverage & Labor Cost Control 3-0-3
The course will examine cost control techniques of successful and effectively operated hospitality businesses. The primary focus will be on food, beverage, labor and supply controls. Topics include numerous operational formulas designed to enable effective control over food, beverage, and supply inventories, effective and profitable pricing controls, sales controls, and labor controls. The course will detail various aspects of auditing an establishment based on standard operational practices and costing methods.
Requisite: Basic Algebra skills recommended, CUL 101.
Type: C

CUL 110 Professional Food Preparation I 3-4-5
Introduction to the kitchen and cooking. Lectures focus on safety, sanitation, kitchen equipment operations, basic cooking, and basic food science. Lab work includes knife skills, lunch and dinner preparation, stocks and sauces, and teamwork in a kitchen environment. Uniform with chef's toque, knife(s), and thermometer are requirements for this course. NOTE: Students who have not completed CUL 116 but possess a valid ServSafe® Food Protection Manager Certification or Illinois Food Handler Certification should contact the program coordinator for CUL 116 credit.
Requisite: CUL 101, CUL 116 or concurrent enrollment.
Type: C

CUL 111 Professional Food Preparation II 3-4-5
This course is a continuation of CUL 110 Professional Food Preparation I. Through the use of lab and lecture, students will move to more complex menus, including meats, poultry and seafood. They will study the proper storage and preparation of these items. A group, class project will expose the student to menu planning, preparation and presentation of a multi-course meal. NOTE: Students who have not completed CUL 116 but possess a valid ServSafe® Food Protection Manager Certification or Illinois Food Handler Certification should contact the program coordinator for CUL 116 credit.
Requisite: CUL 110, CUL 116.
Type: C

CUL 112 Advanced Professional Cooking 2-2-3
Advanced Professional Cooking is an advanced food preparation course designed to help prepare students for careers and to help professional cooks advance their careers in the culinary arts as practiced today in top quality American food service operations.
Requisite: CUL 110, CUL 111, CUL 116.
Type: C

CUL 113 Soups, Stocks, and Sauces 1-4-3
This course is designed for students who are seeking to expand their knowledge and practical skill in soup, stock, and sauce preparation. Students will learn a variety of preparation methods and how each particular soup, stock, and/or sauce relates to different dining scenarios. Students will receive detailed instruction in understanding complex soup, stock, and sauce recipes and the food science underlying each item's creation. NOTE: Students who have not completed CUL 116 but possess a valid ServSafe® Food Protection Manager Certification or Illinois Food Handler Certification should contact the program coordinator for CUL 116 credit.
Requisite: CUL 101, CUL 116 or concurrent enrollment.
Type: C

CUL 114 Garde Manger 1-4-3
This course is designed for those students who are seeking to expand their knowledge of the art and craft of the cold kitchen. Students will learn preparation methods for cold sauces, soups, salads, forcemeats, sausages, pates, terrines, cured and smoked foods. Cheeses, hors d'oevres, appetizers, relishes, compotes, and condiments will be prepared, presented, and tested for taste. Various presentations will be covered. NOTE: Students who have not completed CUL 116 but possess a valid ServSafe® Food Protection Manager Certification or Illinois Food Handler Certification should contact the program coordinator for CUL 116 credit.
Requisite: CUL 110, CUL 111, CUL 116.
Type: C

CUL 115 Table Service 2-0-2
This course is dedicated to various forms of table service. Everything from general job descriptions to the specific placement of silver and glassware. Learn how the French and Russians dine. Experience the art of napkin folding and other final touches that give tables that special flair. Coursework includes importance and development of job descriptions, hand-on training and developing training workshops aimed at production of service. NOTE: Students who have not completed CUL 116 but possess a valid ServSafe® Food Protection Manager Certification or Illinois Food Handler Certification should contact the program coordinator for CUL 116 credit.
Requisite: CUL 101, CUL 116 or concurrent enrollment.
Type: C

CUL 116 Food Service Sanitation 1-0-1
This course is designed to educate students in the importance of sanitation in food preparation. Topics emphasized are safe food environments, pest control and local, state, and federal codes. An additional fee of $35 must be paid to the State of Illinois upon satisfactory completion of the course.
Requisite: None.
Type: C

CUL 117 Housekeeping Management I 3-0-3
Housekeeping Management is the fundamental course in the study of managing a housekeeping facility in hotels and hospitals. The course is designed to introduce the student to the management theories that are needed to supervise the staff of a hotel or hospital.
Requisite: None.
Type: C

CUL 118 Fundamentals of Meat Processing 1-4-3
This course is designed for students who are seeking to expand their knowledge and practical skill in meats identification, analysis, and cutting. Students will learn a variety of preparation methods for beef, lamb, poultry, pork, and fish. Detailed instruction in understanding desired characteristics of particular products, proper form, grading, and to particular meats will be discussed in detail.
Requisite: CUL 101, CUL 116 or concurrent enrollment.
Type: C

CUL 123 Legal Aspects of Food Service Management 3-0-3
This course is designed for those students who are seeking a down-to-earth explanation of legal subjects relevant to food service. The course will focus on employee relations, food liability, liquor liability, patron civil rights and federal regulations that are of concern to food service managers.
Requisite: None.
Type: C

CUL 127 Baking & Pastry 1-2-2
A general introduction to the baking of breads, cookies, cakes, pastry dough, puff pastry, danish and eclairs. Learn how to prepare beautiful and tempting baked goods. NOTE: Students who have not completed CUL 116 but possess a valid ServSafe® Food Protection Manager Certification or Illinois Food Handler Certification should contact the program coordinator for CUL 116 credit.
Requisite: CUL 101, CUL 116 or concurrent enrollment.
Type: C

CUL 128 Advanced Professional Baking 1-2-2
This course provides students with challenging baking and pastry concepts and emphasis on complex recipes. The course focuses on the study and preparation of breads, tortes, cake decorating, cheesecakes, custards, puddings, Bavarian creams, mousses and other baked goods. Through lecture and hands-on application, students will prepare recipes from scratch. They will study proper preparation, scaling, measuring and mixing techniques. An understanding of numerous types of flours, yeasts and the ability to troubleshoot problems will be developed through demonstration and laboratory exercises. NOTE: Students who have not completed CUL 116 but possess a valid ServSafe® Food Protection Manager Certification or Illinois Food Handler Certification should contact the program coordinator for CUL 116 credit.
Requisite: CUL 101, CUL 116, CUL 127.
Type: C

CUL 129 Cake Decorating I 1-2-2
This course is designed to expose students to the proper procedure for producing traditional and contemporary cakes. Emphasis will be placed on decoration of cakes including proper use of a pastry bag and various tips, writing with chocolate, use of piping and other techniques. Butter cremes, royal icing and moldable icing (fondant) will be emphasized in this class. Additional hours outside regularly scheduled class time will be required to complete projects. NOTE: Students who have not completed CUL 116 but possess a valid ServSafe® Food Protection Manager Certification or Illinois Food Handler Certification should contact the program coordinator for CUL 116 credit.
Requisite: CUL 101, CUL 116 or concurrent enrollment.
Type: C

CUL 130 Cake Decorating II 1-2-2
This course is designed to build upon techniques learned in Cake Decorating I. Emphasis will be placed on intermediate and advanced techniques with buttercream, royal icing and moldable icing (fondant), as well as contemporary cake sculpting techniques. NOTE: Students who have not completed CUL 116 but possess a valid ServSafe® Food Protection Manager Certification or Illinois Food Handler Certification should contact the program coordinator for CUL 116 credit.
Requisite: CUL 101, CUL 116, CUL 129.
Type: C

CUL 131 Experimental Baking Techniques 1-2-2
This course provides the opportunity to discover functions of bakeshop ingredients through lab experiments and explore the chemical and physical changes in foods that occur during baking. Topics include wheat and grains, sugar and sweeteners, fats and oils, egg products, leavening agents and dairy products. NOTE: Students who have not completed CUL 116 but possess a valid ServSafe® Food Protection Manager Certification or Illinois Food Handler Certification should contact the program coordinator for CUL 116 credit.
Requisite: CUL 101, CUL 116 or concurrent enrollment.
Type: C

CUL 132 Ice Cream & Frozen Desserts 1-2-2
This course is designed for those students who are seeking to expand their knowledge of the art and craft of frozen desserts. Students will learn how to prepare assorted frozen classical and non-traditional desserts with proper methods and techniques. NOTE: Students who have not completed CUL 116 but possess a valid ServSafe® Food Protection Manager Certification or Illinois Food Handler Certification should contact the program coordinator for CUL 116 credit.
Requisite: CUL 101, CUL 116 or concurrent enrollment.
Type: C

CUL 133 Sustainable Kitchen 1-2-2
This course focuses on the knowledge, skills and techniques needed to create a sustainable commercial kitchen. Participants will learn to utilize an indoor (hydroponic herb garden) and outdoor (raised bed herb garden) which will supply fresh herbs for the culinary lab classes as well as microgreens for salad applications. Students will create and maintain kitchen waste programs for composting. They will explore the application of rain barrel irrigation for outdoor gardens. Culinary plant (s) identification and commercial kitchen usage along with local product availability will introduce students to industry methods and trends to include sustainable opportunities in food production.
Requisite: None.
Type: C

CUL 135 Food Truck/Mobile Catering I 1-2-2
This course is dedicated to the fundamental of owning and operating a food truck or cart. It familiarizes students with the tools needed to formulate a food truck concept and turn it into a standardized plan. The focuses is on menu planning, truck /cart design and location, federal/state/local regulations, and licenses and permits. Learn to design, cost and budget for a mobile food unit, while developing the necessary skills for succeeding in the foodservice segment of mobile food ownership. Case studies, field trips and established food truck businesses all aid you in designing your own mobile food unit.
Requisite: CUL 101, CUL 116.
Type: C

CUL 200 Culinary Competition Techniques 1-2-2
This course is designed to help individuals develop and practice skills necessary for successful completion of American Culinary Federation competencies for a certified culinarian. The course will focus on competition techniques established in accordance with the American Culinary Federation guidelines. Course assignments will focus on culinary skills in food production, garde manger, and baking as outlined by the ACF competencies for practicums.
Requisite: CUL 110, CUL 111, CUL 114.
Type: C

CUL 206 Menu Development & Pricing 3-0-3
This course will teach you how to create effective menus utilizing various formats, colors, sizes and menu items. This course will cover development and pricing for salad bars, buffets, and general catering events. By understanding menu pricing, find out how profitability can be increased.
Requisite: Basic Algebra skills recommended, CUL 101.
Type: C

CUL 209 Hospitality Management 3-0-3
This course is designed to assist students in becoming better managers and to put them at the leading edge of the hospitality industry. Students will study such topics as supervision, communication, training, motivation, decision making and a variety of other leadership qualities that are related to the hospitality industry.
Requisite: CUL 101, CUL 116 or concurrent enrollment or state of Illinois sanitation certificate or valid ServSafe Food Protection Manager Certification.
Type: C

CUL 212 Food Service Purchasing 3-0-3
This course is designed to give the student fundamental answers to the problems encountered in food service purchasing. The course will address development of purchasing specifications, vendor sourcing, sourcing quality, quality control, pricing, inventory control, receiving and storage and other aspects involved with food service purchasing.
Requisite: Basic Algebra skills recommended, CUL 101.
Type: C

CUL 217 Equipment Layout and Design 3-0-3
Survey of the basic requirements needed for effective layout. Students learn about selecting equipment based on quality, specifications and use requirements. Other items such as facility construction, training guides, equipment operation and maintenance are also covered.
Requisite: None.
Type: C

CUL 228 Culinary Nutrition for Food Service 3-0-3
This course is designed to help individuals develop a better understanding of the importance of nutrition. Communicating with nutritional specialists is also an important part of food preparation. Items to be covered will include nutrition in industry, eating habits, recipe development and trends in nutrition.
Requisite: None.
Type: C

CUL 230 Internship I 0-15-3
The student will be assisted in finding a position in a hands-on field experience of 240 hours. This will enable the student to apply classroom theories to actual situations. Students will be graded on participation and on written reports which describe their experience.
Requisite: Department consent
Type: C

CUL 231 Internship II 0-15-3
The student will be assisted in finding a position in a hands-on field experience of 240 hours. This will enable the student to apply classroom theories to actual situations. Students will be graded on participation and on written reports which describe their experience.
Requisite: Department consent
Type: C

CUL 232 Advanced Decorating Techniques 2-4-4
This course provides students with challenging baking and pastry concepts and emphasis on complex recipes. The course focuses on the study of advanced methods and mediums used in the pastry art industry. Through lecture and hands-on application, students will prepare recipes from scratch. They will study proper preparation, scaling, measuring and mixing techniques. This course will focus on an understanding of numerous techniques in sugar, chocolate, moldable mediums, gelatin designs, advanced fondant, gum paste, marzipan, royal icing and pastillage.
Requisite: CUL 101, CUL 116, CUL 129, CUL 130.
Type: C

CUL 233 Contemporary Plating Techniques 1-2-2
This course is designed for those students who are seeking to expand their knowledge of the art and craft of food presentations. Focus of class will elevate student's foundational knowledge on presentation of food mediums. They will be introduced to different styles and cultural influences in plating techniques. NOTE: Students who have not completed CUL 116 but possess a valid ServSafe® Food Protection Manager Certification or Illinois Food Handler Certification should contact the program coordinator for CUL 116 credit.
Requisite: CUL 101, CUL 110, CUL 116, CUL 128.
Type: C

CUL 234 Breads, Rolls & Pastries 1-2-2
This course provides students with challenging baking and pastry concepts with emphasis on bread and pastry recipes. The course focuses on the study and preparation of breads, tortes, pastries, pies, mousses and other baked goods. Through lecture and hands-on application, students will prepare recipes from scratch. They will study proper preparation, scaling, measuring and mixing techniques. An understanding of numerous types of flours, yeasts and the ability to troubleshoot problems will be developed through demonstration and laboratory exercises. NOTE: Students who have not completed CUL 116 but possess a valid ServSafe® Food Protection Manager Certification or Illinois Food Handler Certification should contact the program coordinator for CUL 116 credit.
Requisite: CUL 101, CUL 110, CUL 116, CUL 128.
Type: C

CUL 235 Food Truck/Mobile Catering II 1-2-2
This course is dedicated to the advanced fundamentals of owning and operating a food truck or cart. The focus is on menu planning, truck/cart design and location, federal/state/local regulations, and licenses and permits. Learn to design, cost and budget for a mobile food unit, while developing the necessary skills for succeeding in the food service segment of mobile food ownership. Focus will be on utilizing social media resources. Creating themed events and execution of events. Case studies, field trips and established food truck businesses all aid you in designing your own mobile food unit.
Requisite: CUL 135.
Type: C

CUL 299 Special Topics/Culinary Arts Variable up to (4)-(6)-(4)
This course will focus on the study of specific topics in the food service industry. The student will be given case studies, simulation, special projects in cooking or problem solving procedures.
Requisite: None.
Type: C

Diagnostic Medical Sonography

DMS 101 Diagnostic Medical Sonography 1-2-2
Students become oriented to the profession of medical sonography and the scanning process. Primary topics emphasized in this course include the historical perspectives of sonography, introduction to patient care and communication, ergonomics of scanning, medical ethics and law, medical techniques, sonographic guidelines, terminology, basic principles, and knobology.
Semester(s) Offered: Fall
Requisite: Acceptance into the Diagnostic Medical Sonography Program or Instructor consent..
Type: C

DMS 102 DMS Physics & Instrumentation I 1-2-2
This is the first of a two-course sequence providing an in-depth study of ultrasound physics and instrumentation. This course includes the basic principles of sound wave generation, propagation of ultrasound through human tissue, interaction with media, transducers and sound beams, and pulse echo instruments and imaging.
Semester(s) Offered: Fall
Requisite: Acceptance into the Diagnostic Medical Sonography Program or Instructor consent..
Type: C

DMS 103 Abdominal Sonography I 2-2-3
This is the first of a two-course sequence providing an in-depth study of abdominal sonographic imaging. Covered topics include scanning guidelines, protocols, anatomy, and pathology of the abdominal vasculature liver, gallbladder, biliary system, pancreas, spleen, and urinary system. Emphasis is also placed on patient preparation regarding clinical signs and symptoms.
Semester(s) Offered: Fall
Requisite: Acceptance into the Diagnostic Medical Sonography Program or Instructor consent..
Type: C

DMS 104 OB & GYN Sonography I 2-2-3
This is the first of a two-course sequence providing an in-depth study of obstetrical and gynecological sonographic imaging including patient preparation and associated clinical signs and symptoms. Covered within this course are scanning guidelines, protocols, anatomy and physiology, and pathology of the female pelvis as related to gynecology and obstetrics. An emphasis is placed on the first trimester as well as abnormal pregnancies.
Semester(s) Offered: Fall
Requisite: Acceptance into the Diagnostic Medical Sonography Program or Instructor consent..
Type: C

DMS 105 Sonography Lab I 0-2-1
This course provides synthesized laboratory practice in the basics of ultrasound imaging and safe operation of ultrasound equipment to perform sonograms. It introduces professional expectations of the student sonographer and covers proper procedure and body mechanics for an ultrasound exam. Students are oriented to identify anatomy in the transverse, longitudinal, and coronal scanning planes.
Semester(s) Offered: Fall
Requisite: Acceptance into the Diagnostic Medical Sonography Program or Instructor consent..
Type: C

DMS 106 DMS Physics & Instrumentation II 3-0-3
This is the second of two-course sequence providing a continuation of an in-depth study of ultrasound physics and instrumentation. This course continues on pulse-echo instrumentation focusing on harmonics, artifacts of imaging, and Doppler instrumentation. Students are exposed to color flow imaging with Doppler instrumentation in this course. This course includes bioeffects

of sonographic instrumentation and safety in ultrasound imaging along with related quality assurance topics.
Semester(s) Offered: Spring
Requisite: Satisfactory completion with a "C" or better in DMS 101, DMS 102, DMS 103, DMS 104, DMS 105, and DMS 110 or program coordinator consent.
Type: C

DMS 107 Abdominal Sonography II 2-2-3
This is the second of a two-course sequence providing an in-depth study of abdominal and small parts sonographic imaging. This course covers scanning guidelines, protocols, anatomy and physiology, and pathology of the retroperitoneum, peritoneal cavity, gastrointestinal tract, small parts, superficial structure, and musculoskeletal systems. Emphasis is placed on patient preparation through clinical signs and symptoms.
Semester(s) Offered: Spring
Requisite: Satisfactory completion with a "C" or better in DMS 101, DMS 102, DMS 103, DMS 104, DMS 105, and DMS 110 or program coordinator consent.
Type: C

DMS 108 OB and Gyn Sonography II 2-2-3
This is the second of a two-course sequence providing an in-depth study of obstetrical and gynecological sonographic imaging. Covered are scanning guidelines, protocols, anatomy and pathology of the female pelvis as related to gynecology and obstetrics. Emphasis is placed on the second and third trimester as well as high-risk pregnancy through patient preparation and clinical signs and symptoms.
Semester(s) Offered: Spring
Requisite: Satisfactory completion with a "C" or better in DMS 101, DMS 102, DMS 103, DMS 104, DMS 105, and DMS 110 or program coordinator consent.
Type: C

DMS 109 Sonography Lab II 0-2.5-1
This course provides synthesized laboratory practice through the concepts of ultrasound imaging ensuring safe operation of sonography instrumentation. The laboratory experience will expand on the principles of abdominal, small parts, obstetrics, and gynecology sonography through the use of advancing instrumentation techniques as well as clinical case reviews.
Semester(s) Offered: Spring
Requisite: Satisfactory completion with a "C" or better in DMS 101, DMS 102, DMS 103, DMS 104, DMS 105, and DMS 110 or program coordinator consent.
Type: C

DMS 110 DMS Clinical Experience I 0-10-5
This course is the first of three clinical education experiences that provides students an opportunity to practice patient care and sonographic scanning under the supervision of an ARDMS registered sonographer. Clinical instructors in the healthcare facility to which the students are assigned provide student supervision.
Semester(s) Offered: Fall
Requisite: Acceptance into the Diagnostic Medical Sonography Program or Instructor consent..
Type: C

DMS 200 Vascular & Specialties DMS 2-0-2
This course is an introduction to vascular and pediatric sonography. Topics will include anatomy, physiology and pathology of the vascular system and pediatric systems. Vascular emphasis will be placed on carotid duplex color flow imaging, upper and lower extremity arterial and venous duplex/color flow imaging, and ankle brachial indices. Pediatric emphasis will be placed on neonatal and pediatric head, spine, hip, abdomen, and urinary systems. Supplementary emphasis will be placed on physics and instrumentation review.
Semester(s) Offered: Summer
Requisite: Satisfactory completion with a "C" or better in DMS 106, DMS 107, DMS 108, DMS 109, and DMS 201 or program coordinator consent.
Type: C

DMS 201 DMS Clinical Experience II 0-16-8
This course is the second of three clinical education experiences that provides students an opportunity to practice patient care and sonographic scanning under the supervision of an ARDMS registered sonographer. Clinical instructors in the healthcare facility to which the students are assigned provide student supervision.
Semester(s) Offered: Spring
Requisite: Satisfactory completion with a "C" or better in DMS 101, DMS 102, DMS 103, DMS 104, DMS 105, and DMS 110 or program coordinator consent.
Type: C

DMS 202 DMS Clinical Experience III 0-12-6
This course is the final clinical education experience that provides students an opportunity to practice patient care and sonographic scanning under the supervision of an ARDMS registered sonographer. Students assume greater responsibility during exams, continue competency testing, and begin work towards mastery of clinical practice. Clinical instructors in the healthcare facility to which the students are assigned provide student supervision.
Requisite: Satisfactory completion with a "C" or better in DMS 106, DMS 107, DMS 108, DMS 109, and DMS 201 or program coordinator consent.
Type: C

Early Childhood Education

ECE 101 Foundations in Early Childhood Education 3-0-3
This course is designed as an overview of basic principles of child development and learning, professionalism in the field of early care and education, and planning and maintaining safe and healthy learning environments. The course includes how providers advance and support children's physical, intellectual, social, and emotional development. Experiential learning opportunities engage students in building productive relationships with families.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

ECE 102 Experiential Learning 0-90-3
The student will participate in a minimum of 480 hours of work experience and a variety of workshops, conferences, meetings, and/or service-learning opportunities as agreed upon by the instructor and the student. Verification and reflection of learning will be assessed by the instructor.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

ECE 103 CDA Portfolio 1-0-1
This course is designed to support early childhood education professionals in completing their Child Development Associate (CDA) Professional Portfolio, preparing for the CDA Exam, and successfully navigating the Verification Visit. The course will provide structured guidance on assembling portfolio components, reviewing key concepts for the computer-based CDA Exam, and preparing for the reflective observation process with a CDA Professional Development (PD) Specialist. Additionally, students will explore career pathways in early childhood education, including further education, credentialing, and advancement opportunities. This course serves as a critical steppingstone for those seeking to ear their CDA credential and take the next steps in their professional journey.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

ECE 110 Introduction to Early Childhood Education 3-0-3
Designed to familiarize students with the current philosophy of early childhood education, guidance techniques, classroom design, early childhood education teacher responsibilities, strategies for home-center collaboration, and the curriculum in early childhood education settings. Students will review the different types of early childhood education arrangements in the United States, including infant/toddler and school age programs. Federal laws, licensing and regulatory requirements for programs serving children birth to 12 years are covered. The history of educating children birth to 12 years will be addressed. Observations of children in selected early childhood settings will be required. This course is accepted statewide by four-year institutions for students majoring in early childhood education. Successful completion of this course will require 10 observation hours in approved early childhood programs.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

ECE 112 Growth & Development of Children 3-0-3
Designed to cover the theories of Erikson, Piaget, Vygotsky and others as a foundation to understanding the physical, social/emotional, cognitive, language and aesthetic developmental milestones in children prenatally to 12 years. The influence of family, community, gender, race, and socio-economic factors on development will be addressed. Observations in selected early childhood settings will be required.
NOTE: This course is accepted statewide by four-year institutions for students majoring in early childhood education.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C, IAI-ECE 912

ECE 114 Child Health Maintenance 3-0-3
Designed to address the health, safety and nutritional issues related to children in early childhood settings. Communicable illnesses, prevention methods, child care regulations, treatments for common injuries, legal mandates for reporting abuse and neglect, effects of violence on children, nutritional needs and menu planning will all be covered.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

ECE 116 Children with Special Needs 3-0-3
Designed to provide the student with knowledge and skill related to caring for children with special needs due to deviations in growth and developmental patterns. Methods of assessing needs and helping the child to meet these needs will be stressed. Study of applicable federal and state laws and requirements conducted including: Individuals with Disabilities Education Act, Individualized Family Service Plan, Individual Education Programs, and inclusive programming. Fulfills requirements of School Code 25.25. Observations at select agencies will be required.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101; Completion of ECE 110, 112, with a grade of "C" of better.
Type: T, IAI-ECE 913

ECE 118 Early Childhood Practicum I 1-10-3
Designed to apply theory to practice while caring for small groups of children in cooperating early childhood agencies. Students will have one hour of lecture/discussion per week and 150 hours of supervised experiences, which may include caring for children with special needs. The 150 hours must be completed by the 15th week of the semester. Students must be able to perform with reasonable accommodation the essential functions as specified on the practicum application.
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: C

ECE 121 Early Childhood Curriculum 3-0-3
Surveys the theory and methods related to planning and maintaining a early childhood curriculum for preschool children. Students devise educational plans for children in individual, small group, and in large group learning situations. The importance of play as an avenue for learning is addressed in the following curricular areas: language, science, art, math, music, dramatic play, blocks, and sensory play.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101; Completion of ECE 110, 112, with a grade of "C" of better.
Type: C

ECE 122 Infant and Toddler Care 3-0-3
Examines the fundamentals of infant and toddler development, including planning and implementing programs in group care settings. Emphasizes meeting physical, social, emotional, and cognitive needs of children from birth to three years. Specific infant and toddler child care issues to be addressed are scheduling, preparing age appropriate activities, health and safety policies and procedures, record keeping, designing effective learning environments, and reporting to parents.
Semester(s) Offered: Fall
Requisite: Eligible for ENG 101; Completion of ECE 110, 112, with a grade of "C" of better.
Type: C

ECE 125 Early Childhood Administration 3-0-3
This course examines the skills needed for establishing and managing early childhood programs. Emphasizes such topics as developing effective interpersonal communication techniques, staff selection and development, establishing programming and management philosophies and relevant policies, budgeting, record keeping, and overview of state licensing standards.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101; Completion of ECE 110, 112, with a grade of "C" of better.
Type: C

ECE 200 ECE Leadership & Supervision 3-0-3
This course will provide the student with knowledge of the leadership role in early childhood education. Effective supervision strategies will be examined. Additional topics include professionalism, ethical behavior, and advocacy.
Semester(s) Offered: Spring
Requisite: ECE 110, ECE 112.
Type: C

ECE 210 Understanding & Guiding Behavior of Young Children 3-0-3
This course is designed to address the guidance and teaching techniques that will promote positive behavior in young children. The course will review developmental theories and practical strategies for working with young children and their families. The effects of the environment and adult/child interactions will be explored.
Semester(s) Offered: Fall
Requisite: Eligible for ENG 101; Completion of ECE 110, 112, with a grade of "C" of better.
Type: C

ECE 220 Math for Young Children 3-0-3
This course will explore various strategies to promote mathematical understanding in children ages birth through age 8. Students will learn and demonstrate how to support young children's emerging math skills by utilizing developmentally appropriate practice, play, and hands on materials including technology. Throughout the course students will plan, prepare and assess various techniques in the early childhood mathematics curriculum. Emphasis will be on the following concepts: counting, number of operations, patterns, measurement, data analysis, spatial relationships , and shapes.
Requisite: ECE 110, ECE 112.
Type: C

ECE 250 Child, Family and Community 3-0-3
This course focuses on the child in the context of family, school and community. Specific issues such as diversity, professionalism, and social policies will be discussed. The course will also promote awareness and effective use of community resources and partnership building. Parent education, changing families, and legal responsibilities of those involved in the care of children will be addressed.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101; Completion of ECE 110, 112, with a grade of "C" of better.
Type: C, IAI-ECE 915

ECE 299 Special Topics/Early Childhood Variable up to (4)-0-(4)
An in-depth study of various areas in early childhood education presented through lectures, discussions, and/or individual research and readings by the students. Topics will vary.
Semester(s) Offered: Summer
Requisite: ECE 110, ECE 112.
Type: C

Earth Science

ES 101 Earth Science 3-2-4
In this course, students will learn how and why Earth is the way it is, and why humans should care. A systems-based approach to Earth Science will be utilized which incorporates components of geology (such as the rock cycle and plate tectonics), meteorology (including winds and weather), the hydrosphere (water in the geosphere, atmosphere and oceans), astronomy (the sun and Earth's place in space), and climatology. Students in ES 101 will use the tools of science to find patterns in nature, which is useful when considering how humans interact with and are affected by our natural world. Students will analyze climate change, our need and use of natural resources (possibly including water, mineral, and energy resources), and causes and impacts of natural hazards (possibly including flooding, earthquakes, volcanoes, and

severe storms).
Semester(s) Offered: Fall, Spring, Summer
Requisite: Math placement into MATH 97 or higher; Eligible for ENG 101 .
Type: T, IAI-P1 905L

ES 102 Physical Geology 3-2-4
Examine what materials comprise the Earth, what processes shape the Earth and will understand how geologists study the Earth. Specific topics include Earth's interior, plate tectonics, earthquakes, details of the rock cycle and geologic time. Lab activities stress but aren't limited to rock and mineral identification as well as topographic map use. Students will also use scientific methods to study the Earth. ES 101 is not a prerequisite for this course.
Semester(s) Offered: Fall, Spring
Requisite: Math placement into Math 112 or higher or successful completion of MATH 97, 107, or 111 with a grade of "C" or better; Eligible for ENG 101.
Type: T, IAI-P1 907L

ES 114 Earth and the Environment 3-2-4
Students in this course will explore the ways people impact and are impacted by our Earth. Students will evaluate factors that determine how and which water, mineral and energy resources are used, and apply sustainability concepts to critique the costs and benefits of natural resource use. Both scientific and societal aspects of natural hazards, such as earthquakes, volcanoes, landslides, and floods will also be studied. Finally, impacts of human activities, such as population growth, pollution, land-use change, and global climate change will be interwoven throughout.
Semester(s) Offered: Intermittently
Requisite: Math placement into MATH 97 or higher; Eligible for ENG 101 .
Type: T, IAI-P1 908L

ES 180 Historical Geology 3-2-4
An introduction to the geologic evolution of the Earth with emphasis on North America. Investigated will be the principles, methods, procedures and problems of interpreting Earth history from rock sequences, fossils and geologic maps.
Semester(s) Offered: Intermittently
Requisite: Math placement into Math 112 or higher or successful completion of MATH 97, 107, or 111 with a grade of "C" or better; Eligible for ENG 101.
Type: T, IAI-P1 907L

ES 250 Introduction to Meteorology 3-2-4
This course is an introduction to the physical elements and processes of weather including a global survey of major climate types. Topics to be investigated include temperature, pressure, moisture and how these elements interact to produce weather and climates. Other aspects of meteorology will be examined including thunderstorms, tornadoes, hurricanes, interpretation of weather maps, and climate change.
Semester(s) Offered: Intermittently
Requisite: Math placement into Math 112 or higher or successful completion of MATH 97, 107, or 111 with a grade of "C" or better; Eligible for ENG 101.
Type: T, IAI-P1 910L

Variable up to
ES 299 Problems in Earth Science (3)-(6)-(4)
A seminar for in-depth study of current topics in the earth sciences. Readings, literature reviews, discussion and individual research emphasized. Topics vary according to student and instructor interest.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

Economics

ECON 115 Introduction to Economics 3-0-3
ECON 115 is a survey of macro- and microeconomic principles to acquaint the student with economic concepts, institutions, and policies. Credit will not be given if this course is taken after ECON 201 or ECON 202; students needing more than one course in economics should take ECON 201 and ECON 202.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-S3 900

ECON 201 Principles of Macroeconomics 3-0-3
ECON 201 is a one-semester introduction to macroeconomics. Major topics include the production possibilities model, basic supply and demand analysis, measurement and interpretation of gross domestic product, inflation, and unemployment, classical and Keynesian theories, aggregate supply and aggregate demand, money and banking, the Federal Reserve System, fiscal and monetary policies, and the determinants of long-run economic growth.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-S3 901

ECON 202 Principles of Microeconomics 3-0-3
ECON 202 is a one-semester introduction to microeconomics. Major topics include the theory of consumer choice, the price elasticity of demand, costs of production, price and output determination in different product market structures, wage and employment determination in labor markets, government policies to deal with market failures such as monopoly, public goods and externalities, the gains from trade based on comparative advantage, and an overview of current economic problems and issues facing the United States.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-S3 902

Education

ED 120 Paraprofessional Test Prep 1-0-1
This pass/fail course for paraprofessional educators is intended to prepare candidates for the WorkKeys and ETS ParaPro tests that are used by the State of Illinois to certify paraprofessionals. Five learning modules will be covered, including an introduction to assessments and test taking strategies, reading, writing, mathematics, workplace documents, and responsibilities of a paraprofessional. The course will include practical application examples and situations similar to those found on the WorkKeys and ETS ParaPro tests. Students will gain a better understanding of how they learn as adults and effective strategies for test preparation.
Requisite: None.
Type: C

ED 252 Educational Psychology 3-0-3
Educational psychology is a survey course introducing students to major areas related to teaching and learning. It explores motivation, intelligence, creativity, evaluation, measurement, growth and development learning perspectives throughout the lifespan, with an emphasis on developmental theory and practice across childhood and adolescence. It focuses on the learning process and the impact of culture on learning styles. It may include observational experiences. Students may not receive credit for both ED 252 and PSYC 252.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T

ED 255 Introduction to Education 3-0-3
This course introduces the educational professions and the diverse systems of education within the United States. Students will explore the various aspects of education as a profession, including historical, philosophical, social, legal, and ethical issues in a diverse society. The course will discuss the organizational structure of schools at the federal, state, and local levels, as well as education reform, finance, and curriculum. Current issues in education, basic instructional strategies, and teacher responsibilities will be addressed, along with an emphasis on the dispositions and skills necessary for educators. Observation hours will be included to provide practical insights into the educational environment. Students must complete fingerprinting prior to in-person observations.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: T

Variable up to
ED 256 Field Experience in Education (1)-(6)-(3)
This course is intended for education majors. It may be taken for a maximum of three semester credits in the final semester before transfer to a four-year institution or entry into the workforce. One semester credit is equivalent to 30 hours of experience in partner school classrooms. The course is designed to provide students with the opportunity to gain additional experience in the classroom prior to transfer to four-year institutions. Students will be observing classrooms in their specific areas of interest (special education, elementary education, early childhood education, or secondary education). (This

course requires assigned field experience in a school setting. Hours will vary dependent upon the course hours registered for by the student.)
*May be taken as independent study course. (See Education coordinator the semester before).
Semester(s) Offered: Intermittently
Requisite: Department consent
Type: T

ED 260 Introduction to Educational Technology 3-0-3
This course is designed to prepare pre-service and in-service educators educators to integrate current and emerging educational technologies into instruction. Through this hands-on, project-based course, students will explore the theory and practice of digital pedagogy, including tools such as artificial intelligence (AI), extended reality, multimedia design, mobile applications, and online learning platforms. Emphasis will be placed on evaluating instructional technologies for effectiveness, accessibility, ethics, and equity. Educators will also develop strategies for promoting digital citizenship, safeguarding student data privacy, and designing inclusive, technology-rich learning environments that adapt to the evolving needs of learners.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T

ED 265 Introduction to Special Education 3-0-3
This is a survey course that presents the historical, philosophical and legal foundations of special education, focusing on implementing evidence-based strategies to support children from birth through Grade 12 in a variety of settings with exceptional cognitive, social, physical, and emotional needs. The course examines the diversity of individuals with disabilities, the impact of disabling conditions in learning environments, and relevant state and federal laws such as the Individuals with Disabilities Education Act (IDEA), Individualized Education Programs (IEPs), and Individualized Family Service Plans (IFSPs). Additionally, it explores the collaborative roles of educators, families, and communities in fostering supportive educational environments for students with special needs. This course fulfills the requirements of School Code 25.25.
Semester(s) Offered: Fall
Requisite: Eligible for ENG 101.
Type: T

ED 267 Methods and Materials for Teaching Diverse Students 3-0-3
Exploration and analysis of relevant K-12 pedagogical approaches, methods, and strategies needed to convey state and professional standards-based curricula to a diverse population. Development, adaptation, and evaluation of materials for implementation in lesson planning and assessment for teaching English to speakers of other languages, particular groups, of various ages, ability levels, and cultural backgrounds. Inclusion of strategies that foster both language acquisition and academic achievement in speaking, reading, writing, and listening.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T

ED 270 Classroom Management 3-0-3
This course is designed to examine the many facets of effectively managing a classroom. The course will examine the characteristics of effective educators including interpersonal skills, conflict resolution, classroom organizational techniques, instructional design, effective discipline plans, and effective communication (with parents, administrators, and the public at large.) Assessment types and strategies will be a component of the course.
Requisite: Eligible for ENG 101
Type: T

ED 273 Methods for Teaching Special Education 3-0-3
Students will become familiar with various emotional and behavioral disorders, health and physical impairments, and intellectual deviations associated with children (birth through high school age) who are identified as exceptional. This course will address strategies for meeting academic, social, and emotional needs of these children within the confines of the classroom as well as examine criteria for effectively working with administrators, specialists, community agencies support personnel, and family who impact the educational experiences of these children.
Requisite: None.
Type: T

ED 280 Literacy Methods 3-0-3
Examines and demonstrates how to support children's literacy skills through balanced instruction, best practices, strategies, and theory. The course includes topics such as phonemic awareness, word study, decoding, spelling, vocabulary development, comprehension, fluency, writing, listening, speaking, and instructional sources to promote literacy as a lifelong learning process. Throughout the course, students will plan, prepare, and assess various techniques in the literacy curriculum as well as methods of instruction that are responsive to the individual needs of all students, including, but not limited to ELL students those with exceptional needs.
Requisite: Completion of ENG 101 with a "C" or better.
Type: T

ED 285 Reading in the Content Area 3-0-3
This course provides the teacher-candidate with the tools, skills, strategies, and practices to meet the needs of diverse learners in classroom content areas and to enhance reading skill development. This course emphasizes understanding reading deficits and levels, how students acquire reading competency, the impact of behavior and classroom culture, and how they contribute to a student's ability to succeed in kindergarten through grade 12.
Requisite: None.
Type: T

ED 293 Children's Literature 3-0-3
Primarily for the prospective early childhood or elementary teacher, the course emphasizes the selection and presentation of children's literature (fables, fairy tales, nursery rhymes, picture books, and novels, etc.) with a focus on diversity and multiculturalism. Student may not receive credit for both LIT 293 and ED 293. This course is cross-listed with LIT 293.
Semester(s) Offered: Fall, Spring
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T, IAI-H3 918

Variable up to
ED 299 Special Topics in Education (4)-0-(4)
An in-depth study of various areas in education presented through lectures, discussions, and/or individual research and readings by the students. Topics will vary.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

Emergency Medical Services

EMS 105 Emergency Medical Responder 3-2-4
This course is designed to provide training in all aspects of emergency medical care. It is for rescuers who are not emergency medical technicians and who do not transport patients to a hospital. The majority of training time is devoted to the practical aspects of emergency care. NOTE: Occasional Saturdays may be required for specialized instruction and testing. The dates, times and locations will be announced the first day of class. This course requires access to a reliable internet connection to complete online assignments. Students must be competent computer and internet users.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

Variable up to
EMS 106 First Responder Recertification (3)-0-(3)
Current trends in emergency medical prehospital care are presented at the First Responder level to assist practitioners in achieving recertification experiences for both state and national recognition.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

EMS 107 Medical Response 4-0-4
This course expands on the emergency medical knowledge and skills gained from completion of police academy certification. It further prepares certified police officers to provide emergency care as needed prior to the arrival of EMS personnel to the scene.
Semester(s) Offered: Intermittently
Requisite: Department consent
Type: C

EMS 110 Emergency Medical Technician 4-8-8
Provides students with overall role and responsibility of the emergency medical technician in performing emergency care. The student will develop skill in assessment and in emergency treatment procedures short of those rendered by physicians or by allied health personnel under the direct supervision of a physician. Note: Occasional Saturdays may be required for specialized instruction and testing. The dates, times and locations will be announced the first day of class. This course requires access to a reliable Internet connection to complete weekly online assignments. Students must be competent computer and internet users. A criminal background check and drug testing is required for this course. Details are provided the first day of class. For more information contact 618-235-2700, ext. 5355. The basic fee for these tests are included in lab fees, however additional fees may be required for students who have resided in states other than Missouri and Illinois. Basic algebra skills encouraged.
Semester(s) Offered: Fall, Spring
Requisite: Eligibility for English 101 or completion of EMS 105 with a grade of "C" or better.
Type: C

Variable up to
EMS 115 EMT-Basic Recertification Topics (5)-0-(5)
Current trends in emergency medical prehospital care are presented at the EMT-Basic level to assist practitioners in achieving recertification experiences for both state and national recognition.
Semester(s) Offered: Intermittently
Requisite: Department consent
Type: C

EMS 116 EMT Certification Review 0.5-0-0.5
This course will provide students with the opportunity for an academic review of the information required and study strategies needed to prepare for the National Registry of Emergency Medical Technicians certification examination or Illinois licensure examination. This class will include two opportunities to complete a timed, computerized full length examination that will identify both areas of strength and weakness, as well as offer specific suggestions for remedial activities.
Semester(s) Offered: Intermittently
Requisite: Completion of EMS 110 or current Illinois EMT licensure.
Type: C

EMS 120 A & P and Pathophys for EMS 3.5-1-4
This course provides students pursuing a career as a paramedic with a foundational knowledge of anatomy, physiology, pathophysiology and medical terminology. These topics will be presented with a concentration on relevant information, diseases, disorders and injuries that will allow students to prepare for future Emergency Medical Services courses or workplace situations.
Requisite: EMS 110 with a grade of "B" or better, or coordinator approval.
Type: C

EMS 130 CPR & First Aid 0.5-0.5-0.5
Performance of CPR and First Aid in accordance with an articulated agreement between the Illinois Community College Board and the Department of Corrections. For IDOC personnel responsible for initial emergency medical care at correctional facilities.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

EMS 205 Intro to Paramedicine 7-2.5-8.5
The first of four didactic courses designed to provide the student with the knowledge and skills necessary to perform as a paramedic as well as meet state and national classroom and lab standards for certification. Topics covered in this section include anatomy and physiology review, airway management, assessment skills, intravenous therapy, and trauma.
Semester(s) Offered: Fall
Requisite: Program admission.
Type: C

EMS 206 Paramedic Medical Emergencies 3.5-1.5-4.5
The second of four didactic courses designed to provide the student with the knowledge and skills necessary to perform as a paramedic as well as meet state and national classroom and lab standards for certification. Topics covered in this section include pharmacology, cardiovascular emergencies, ECG interpretation and arrhythmias.
Semester(s) Offered: Spring
Requisite: EMS 205, EMS 210, EMS 220 each with a grade of "C" or better.
Type: C

EMS 207 Paramedic Trauma 3.5-1-4
The third of four didactic courses designed to provide the student with the knowledge and skills necessary to perform as a paramedic as well as meet state and national classroom and lab standards for certification. Topics covered in this section include respiratory and other medical emergencies, environmental emergencies, obstetrical emergencies, pediatrics and neonatology.
Semester(s) Offered: Spring
Requisite: EMS 206, EMS 211, EMS 221 each with a grade of "C" or better.
Type: C

EMS 208 Paramedic Special Pts & Ops 4-1.5-5
The last of four didactic courses designed to provide the student with the knowledge and skills necessary to perform as a paramedic as well as meet state and national classroom and lab standards for certification. Topics covered in this section include toxicology, behavioral emergencies, geriatrics, special patient populations and EMS operations.
Semester(s) Offered: Summer
Requisite: EMS 207, EMS 212, EMS 222 each with a grade of "C" or better.
Type: C

EMS 210 Paramedic Clinical Practice I 0-2-1
The first of four clinical courses designed to provide the student, under supervision, with observation experience, practice and application of patient assessment as well as other paramedic skills and procedures in the clinical environment. This course is designed to meet state and national clinical standards for certification. Clinical settings include emergency department and operating room.
Semester(s) Offered: Fall
Requisite: Program admission.
Type: C

EMS 211 Paramedic Clinical Practice II 0-15-1
The second of four clinical courses designed to provide the student, under supervision, with observation, experience, practice and application of patient assessment as well as other paramedic skills and procedures in the clinical environment. This course is designed to meet state and national clinical standards for certification. Clinical settings usually include various hospital and clinical areas.
Semester(s) Offered: Spring, Summer
Requisite: EMS 205, EMS 210, EMS 220 each with a grade of "C" or better.
Type: C

EMS 212 Paramedic Clinical Practice III 0-2-1
The third of four clinical courses designed to provide the student, under supervision, with observation, experience, practice and application of patient assessment as well as other paramedic skills and procedures in the clinical environment. This course is designed to meet state and national clinical standards for certification. Clinical settings usually include various hospital and clinical areas.
Semester(s) Offered: Spring
Requisite: EMS 206, EMS 211, EMS 221 each with a grade of "C" or better.
Type: C

EMS 213 Paramedic Clinical Practice IV 0-2-1
The last of four clinical courses designed to provide the student, under supervision, with observation, experience, practice and application of patient assessment as well as other paramedic skills and procedures in the clinical environment. This course is designed to meet state and national clinical standards for certification. Clinical settings usually include various hospital and clinical areas.
Semester(s) Offered: Summer
Requisite: EMS 207, EMS 212, EMS 222 each with a grade of "C" or better.
Type: C

EMS 220 Paramedic Field Experience 0-6-2
The first of five field internship courses designed to provide the student, under

supervision, with experience by observing patient assessment as well as other paramedic skills and procedures in the EMS field environment. This course is designed to meet state and national field internship standards for certification. The field internship will typically take place on an ambulance.
Semester(s) Offered: Fall
Requisite: Program admission.
Type: C

EMS 221 Paramedic Field Internship I 0-6-1
The second of five field internship courses designed to provide the student, under supervision, with experience by observing patient assessment as well as other paramedic skills and procedures in the EMS field environment. This course is designed to meet state and national field internship standards for certification. The field internship will typically take place on an ambulance.
Semester(s) Offered: Spring
Requisite: EMS 205, EMS 210, EMS 220 each with a grade of "C" or better.
Type: C

EMS 222 Paramedic Field Internship II 0-6-1
The third of five field internship courses designed to provide the student, under supervision, with experience by observing patient assessment as well as other paramedic skills and procedures in the EMS field environment. This course is designed to meet state and national field internship standards for certification. The field internship will typically take place on an ambulance.
Semester(s) Offered: Spring
Requisite: EMS 206, EMS 211, EMS 221 each with a grade of "C" or better.
Type: C

EMS 223 Paramedic Field Internship III 0-12-1
The fourth of five field internship courses designed to provide the student, under supervision, with experience by observing patient assessment as well as other paramedic skills and procedures in the EMS field environment. This course is designed to meet state and national field internship standards for certification. The field internship will typically take place on an ambulance.
Semester(s) Offered: Summer
Requisite: EMS 207, EMS 212, EMS 222 each with a grade of "C" or better.
Type: C

EMS 224 Paramedic Field Internship IV 0-12-2
The last of five field internship courses designed to provide the student, under supervision, with experience by observing patient assessment as well as other paramedic skills and procedures in the EMS field environment. This course is designed to meet state and national field internship standards for certification. The field internship will typically take place on an ambulance.
Semester(s) Offered: Fall
Requisite: EMS 208, EMS 213, EMS 223, FS 160, FS 280 each with a grade of "C" or better.
Type: C

EMS 270 Critical Care Transport I 2-2-3
Critical Care Transport I course is the first in a series of 2 courses that prepares medical professionals to function as competent members of a critical care transport team by training the students with the information and skills needed to operate effectively in the prehospital critical care environment. The course is designed to prepare students for the Critical Care Paramedic (CCP-C), Certified Flight Paramedic (FP-C), and Certified Flight Registered Nurse (CFRN) exams.
Semester(s) Offered: Intermittently
Requisite: Department consent
Type: C

EMS 271 Critical Care Transport II 2-2-3
The Critical Care Transport II course is the second in a series of 2 courses that prepares medical professionals to function as competent members of a critical care transport team by training the students with the information and skills needed to operate effectively in the prehospital critical care environment. The course is designed to prepare students for the Critical Care Paramedic (CCP-C), Certified Flight Paramedic (FP-C), and Certified Flight Registered Nurse (CFRN) exams.
Semester(s) Offered: Intermittently
Requisite: Department consent
Type: C

EMS 275 Critical Care Experience 0-3.5-1
The Critical Care Experience course allows students who have completed or are currently enrolled in the Critical Care Paramedic I & II courses to interact with patients, both real and simulated, requiring critical care in various settings. Students will also observe and perform critical care skills with critical care equipment while being monitored by qualified practitioners. The course is designed to prepare students for the Critical Care Paramedic (CCP-C), Certified Flight Paramedic (FP-C), and Certified Flight Registered Nurse (CFRN) exams.
Semester(s) Offered: Intermittently
Requisite: Department consent
Type: C

EMS 299 Special Topics In EMS Variable up to (4)-0-(4)
Application of emergency medical principles to specific problems current in EMS through case studies, simulation, special class projects or problem-solving procedures. Projects and topics will vary to meet specific interests and needs.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

Engineering

ENGR 103 Engineering Graphics 2-4-4
ENGR 103 is a foundational course offering a comprehensive introduction to the core principles of engineering design and graphics. Encompassing diverse topics such as design problem-solving, sketching techniques, dimensional analysis, tolerancing, multi-view orthographic representations, auxiliary views, and section views, the curriculum aims to equip students with essential skills for effective communication in the engineering design process. An integral component of the course involves direct experience with Computer-Aided Design (CAD) tools, providing students with the practical knowledge required to transform conceptual designs into precise and visually impactful representations.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T, IAI-EGR 941

ENGR 251 Surveying Fundamentals 2-2-3
This course is designed to introduce fundamental knowledge of surveying methods. Provides the participant with an understanding of the use of the transit, level, tape, Theodolites and total stations, fundamental surveying procedures, and land surveying. After completion of this course students will be able to implement modern survey techniques and skills necessary to present surveying reports in a professional manner. This course is cross-listed with CET 145. Students will receive credit for only one of the cross-listed courses, either CET 145 or ENGR 251.
Semester(s) Offered: Spring
Requisite: None.
Type: C

ENGR 263 Analytical Mechanics - Statics 3-0-3
Students will explore fundamental principles of mechanics; units of measurement, and the analysis of forces on particles and rigid bodies in static equilibrium. This includes as examination of equivalent force systems. The Statics course delves into the study of forces acting on rigid bodies at rest, encompassing coplanar and noncoplanar forces, concurrent and non-concurrent forces, friction forces, centroid, and moments of inertia. The focus involves determining resultant forces of various force systems and analyzing forces on bodies to identify the supporting reacting forces. Furthermore, the Statics curriculum extends to structural analysis, covering topics such as Simple Trusses, The Methods of Joints, Zero Force Members, The Methods of Sections, Frames and Machines, Internal Forces, and Virtual Work. This comprehensive exploration provides students with a thorough understanding of static equilibrium and its applications in structural analysis.
Semester(s) Offered: Fall
Requisite: PHYS 204, MATH 203 each with a grade of "C" or better.
Type: T, IAI-EGR 942

ENGR 264 Analytical Mechanics-Dynamics 3-0-3
Dynamics is a branch of Mechanics in Engineering that deals with the motion of accelerated bodies. This course is the next semester in the sequence of Statics (ENGR 263) and is an introduction to the topics of kinematics (dealing with the geometrics of motion) and kinetics (dealing with the forces that cause motion to occur). We will look at these topics in conjunction with

forces, work and energy, and impulse and momentum in 2D and 3D systems. Dynamics is a fundamental Engineering course, and the mastery of the skills presented in this course is necessary for understanding many of the problems that students will see for the rest of their educations and careers.
Semester(s) Offered: Spring
Requisite: ENGR 263 with a grade of "C" or better.
Type: T, IAI-EGR 943

ENGR 271 Electrical Circuits 3-0-3
An introduction to DC and AC circuit analysis. This course is designed to provide a complete overview of electric circuit analysis used in electrical engineering and electronics engineering. Electric circuit analysis is the most fundamental concept for electrical engineering, electronics engineering, and computer engineering. Topics include key concepts of electricity and magnetism, circuit variables (including voltage, inductance, power, energy, and units), circuit elements (R,L, C and operational amplifiers), simple resistive circuits, circuit analysis (including node-voltage, mesh-current, equivalents and superposition), transient analysis, and sinusoidal steady-state analysis, Students may need to complete a laboratory after transfer if the engineering school requires one.
Semester(s) Offered: Spring
Requisite: MATH 205, PHYS 205 each with a grade of "C" or better.
Type: T, IAI-EGR 931

ENGR 275 Mechanics of Solids 3-0-3
A prerequisite course for many upper division engineering courses. Topics include elastic deformations and stresses in two-dimensional structural elements caused by axial, bending, shear, and torsion loads; stress-strain relationships; Mohr's Circle; elementary design concepts.
Semester(s) Offered: Spring
Requisite: ENGR 263 with a grade of "C" or better.
Type: T, IAI-EGR 945

English

ENG 94 Integrated Reading & Writing 3-0-3
ENGLISH 94 is designed to help prepare students for transfer-level courses by connecting college reading and writing strategies. Students will learn multiple approaches to strengthen their reading comprehension as well as as read with deeper connections through analysis of text, accumulating skills that will help them in future classes as well as lifelong learning. Student will assemble a portfolio of their written work for an audience consisting of reading and writing faculty. This course offers three hours of non-transferable credit. Students who complete ENG 94 may pass to ENG 97 or may receive a waiver to ENG 101 Based on the success of their portfolio.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: P

ENG 97 College Writing Strategies 3-0-3
English 97 is designed to help prepare students for transfer-level courses by gaining practice in writing essays while learning how to reflect on and evaluate their and others' writing. Students will also further develop their reading skills by learning to read rhetorically and use the texts as inspiration for written work. This class includes practice (sometimes in a a collaborative mode) in invention, drafting, revising, and editing as part of a recursive writing process. Students will write multiple essays, culminating in a portfolio crafted for an audience consisting of reading and writing faculty.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: P

ENG 99 Critical Reading and Writing 3-0-3
ENG 99 is designed to strengthen reading comprehension and deepen students' confidence in engaging with textual analysis through writing. Students will learn reading and writing strategies to succeed in college courses and to promote lifelong learning. Because reading and writing are interdependent, students will read texts as inspiration for writing. This class introduces practice at all stages of the writing process - invention, drafting, revising, and editing - sometimes working individually, sometimes collaboratively. Students will write various documents to be included in a common assessment crafted for an audience consisting of English faculty.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: P

ENG 100 Accelerated English Learning Lab 0-3-1
English 100 is an accelerated pathway for students who may need additional support in writing and reading to be successful in ENG 101. Students co-enroll in ENG 101 and ENG 100. In the ENG 100, students will receive supplemental support from their ENG 101 instructor to assist in completing assignments, discussing reading processes, workshop writing, and conferencing. The course also offers strategies and resources to be successful college students. Students will complete a common assessment at the end of the semester in ENG 100. Students who enroll in ENG 100 must remain in the co-enrolled ENG 101 class until the withdrawal deadline. Students who pass ENG 100 but do not pass ENG 101 may enroll in a standalone ENG 101 in a subsequent term.
Requisite: Concurrent enrollment in ENG 101.
Type: T

ENG 101 Rhetoric & Composition I 3-0-3
English 101 is designed to help students write for a variety of general and specific audiences. Students will learn to recognize features that make writing effective, and learn different strategies writers use while prewriting, drafting, revising, and editing. Students will learn to read their own work more critically and to constructively critique the work of others. The course also provides a brief introduction to the writing of source-supported papers and methods of documenting sources.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-C1 900

ENG 102 Rhetoric and Composition II 3-0-3
English 102 focuses on the processes of academic inquiry and source-supported writing, while continuing to practice prewriting, drafting, revising, and editing strategies. Students will gain experience using a variety of research methods including interview, observation, survey, peer-reviewed journals, electronic databases, and other written/visual/aural texts or artifacts. Students will use reflection to critically analyze and evaluate information and ideas from a variety of sources, and use such sources effectively in their own writing.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T, IAI-C1 901R

ENG 103 Introduction to Technical Communication 3-0-3
This course focuses on effective technical and professional communication. Students will learn to read professional situations rhetorically, considering the needs, attitudes, and assumptions of their audiences, as well as the demands and limitations imposed by different contexts. The course stresses writing, collaboration, critical thinking and reading, and effective uses of technology in communication. Note: This course is considered an alternative to English 102 in Associate in Applied Science programs, and therefore is not automatically transferable to all four-year colleges.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101.
Type: C

ENG 104 Technical Editing 3-0-3
This course will introduce students to the theories and applications of technical editing. In this course, students will learn levels of editing, including development, technical, and copy editing. Other topics include the editor's role in the publication cycle within a technical publications department, working with writers in the department, the creation and uses of style guides, and the role of the editor in online mediums. In addition, students will develop word choice, consistency, sentence structure, and other technical editing principles. Through the study of editing as an essential part of the writing process, this course will give students the opportunity to learn editing techniques that will help improve the quality of writing, which is an essential skill set critical to professional technical communication.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101.
Type: T

ENG 107 Creative Writing 3-0-3
A workshop course to give direction and criticism to students who want to write fiction, creative non-fiction, or poetry. Students are part of a critical circle. They submit material to the group and critique work of others. After practicing the craft of writing, students are encouraged to investigate publishing options.

Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: T

ENG 203 Technical, Scientific, and Professional Communication 3-0-3
English 203 introduces and focuses on effective technical, scientific, and professional communication through an advanced lens and examines the conventions and discourses within STEM+M fields. Students will acquire writing and technological skills along with understanding the value of how to use those skills to create communication that is suited to the appropriate audience, purpose, context, genre, and modality. This course will enable students to produce written and visual discourse that communicates important concepts in STEM+M fields. In this course, students not only will become aware of how to produce professional communication but also how to critique digitally produced texts and become confident, prepared communicators in the technical, scientific, and professional domains and STEM+M careers.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101.
Type: T

ENG 207 Advanced Creative Writing 3-0-3
English 207 is designed as a sequel to English 107 so as to provide students with advanced instruction in fiction, poetry and dramatic writing, and to offer further advanced critical evaluation of student work and the work of professional writers in a workshop environment.
Semester(s) Offered: Fall, Spring
Requisite: ENG 107.
Type: T

ENG 299 Special Topics in English Variable up to (4)-0-(4)
Special topics and issues in English presented through lectures, discussions, readings, and/or individual assignments and research projects. Topics vary each semester. Course may be taken more than once if different topics are covered.
Semester(s) Offered: Intermittently
Requisite: Department consent
Type: T

eSports Management

ESM 100 Introduction to Esports Management 3-0-3
This is an introductory course for sports and Esports management. Students will be taught the history, development, operations, basic principles of administrative and management concepts associated with sports and Esports. Descriptions of career opportunities are provided to help the student design a course of study that best meets his/her career goals.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

ESM 150 Contemporary Issues in Esports 3-0-3
This course provides students with an understanding of current events and important ethical issues of the modern esports industry. This course offers an understanding of contemporary issues and allows students to apply their knowledge to the current industry. Students will assess the field of esports from different perspectives, debate contemporary issues, and respectfully engage in discourse regarding controversial topics in Esports.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

ESM 200 Esports Management I 3-0-3
An overview of the sports and Esports management industries focusing on identification and applying theoretical knowledge to real-world actions. The course will dive into professional sports, as well as collegiate and introduce how the emergence of Esports is impacting the sports industry. Content will include sales, marketing and promotions, and public relations and communications as it pertains to sports.
Semester(s) Offered: Fall, Spring
Requisite: EMS 100.
Type: C

ESM 205 Esports Event and Facility Management 3-0-3
An in-depth focus and practical application of sports and Esports management to include strategic planning, finance, event management, and personnel management. Course content will include strategic planning, event management, personnel management, finance, marketing, and emerging technologies in sports/Esport. Upon completion of this course, you will understand the competencies necessary for managing and operating sports and Esports events.
Semester(s) Offered: Fall, Spring
Requisite: ESM 200.
Type: C

ESM 210 Competitive Gaming, Culture and Performance 3-0-3
Integrates and builds upon knowledge learned in prior Esports and business courses, Competitive Gaming domains of performance and motivation for participation are studied. Additional focus includes training components for Esports and ethical issues in Gaming. In-depth analysis of the governance structures and policies that exist in esports at various levels of competition and in international settings. Students gain an understanding of how esports competitions are structured in order to provide a fair level of play. Ideas related to international levels of competitions and associated regulations will be discussed.
Semester(s) Offered: Fall, Spring
Requisite: ESM 200.
Type: C

ESM 215 Esports Coaching and Athlete Development 3-0-3
This course will introduce Coaching Leadership on a sports level but show how that leadership can relate to personal, business and everyday successes for individuals. Creating success in the sports arena, a leader has to communicate, to bring a set of individuals together to accomplish one common goal. Students will gain an understanding of coaching methods across games and genres in esports, as well as how to optimize Esports athlete performance through training techniques and conditioning practices.
Semester(s) Offered: Fall, Spring
Requisite: ESM 210.
Type: C

Film

FILM 105 Screenwriting I 3-0-3
An introduction to movie writing, with an emphasis on the short narrative script. Students will learn the conventions of screenplay format, gain experience using screenwriting software, and practice techniques for crafting believable characters, effective dialog, and suspense.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: T

FILM 115 Film Appreciation 3-0-3
An introduction to film study, with an emphasis on how moviemaking techniques like cinematography, editing, set design, and sound are used for artistic and dramatic effect. In addition to watching and discussing films of different genres and time periods, students will learn about different critical approaches to film and how historical, political, and cultural contexts shape films.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-F2 908

FILM 140 Video Editing I 1-5-3
This course provides an introduction to the principles of video editing using professional editing software. Students will learn to create smooth, effective edits with a variety of different kind of video projects. Students will learn how to import and organize files, create graphics such as titles and credits, add music and sound effects, and export finished projects.
Requisite: None.
Type: T

FILM 150 Film and Video Production I 1-5-3
An introduction to film and video production. Students will learn to operate cameras, lights, sound equipment, and other filmmaking tools, as well as planning shots, scheduling productions, directing actors, and communicating with other crew members. Each student will plan and direct at least one short project and work on other students' projects.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

FILM 205 Screenwriting II 3-0-3
A continuation of FILM 105, in which students will write a feature-length screenplay. Students will gain further practice creating effective film stories, while adhering to proper screenplay format. In addition, students will focus on the conventions of narrative feature scripts such as three-act structure, character arcs, plot points and reversals, etc. Students will continue to develop skills in giving and receiving constructive feedback of their peers" work and revision. Student will also work on marketing their script by creating a logline and treatment, and pitching their idea orally.
Semester(s) Offered: Fall, Spring
Requisite: FILM 105 with a grade of "C" or better.
Type: T

FILM 215 Film History 3-0-3
A survey of the history of motion pictures, with an emphasis on important cinematic movements, directors, and technological innovations that have impacted the direction of the art form.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: T, IAI-F2 909

FILM 225 Film and Literature 3-0-3
A study of the relationship between film and literature. This course will analyze the literary aspects of narrative films, including plot, setting, character, theme, point of view, etc., as well as examining film adaptations of literary works (novels, plays, short stories, graphic novels, and others) and the similarities and differences between the different media.
Semester(s) Offered: Fall
Requisite: Eligible for ENG 101.
Type: T, IAI-HF 908

FILM 230 Sound Design 1-5-3
A hands-on course in sound design, sound editing, and sound mixing for video and film. Using Apple Final Cut Pro, students will learn how to edit dialog, clean up location audio, add sound effects and ambient sound, create musing using loop, place music into video projects effectively, and create a balanced final mix of audio levels. The course will also provide an introduction to setting up and recording ADR (automated dialog replacement), and foley sound effects.
Semester(s) Offered: Spring
Requisite: None.
Type: T

FILM 237 Horror Movies 3-0-3
A study of the horror movie genre, especially how horror films scare us and why. We will examine how horror movies change over time and across cultures, reflecting the real-life fears that people have. We will also study how filmmakers use sound, image, special effects, and editing techniques to create suspense and scares.
Semester(s) Offered: Spring
Requisite: Eligible for ENG 101.
Type: T

FILM 240 Advanced Post-Production 3-0-3
Hands-on training in advanced video post-production. Students will complete a variety of projects requiring complex techniques such as compositing, chroma keying, creating custom text and graphics, keyframing, motion tracking, color grading, and applying and adjusting video effects and filters.
Semester(s) Offered: Spring
Requisite: Completion of FILM 140 with a grade of "C" or better.
Type: T

FILM 250 Film and Video Production II 3-0-3
Continued hands-on experience with motion picture production, with an increased emphasis on the duties of the director through preproduction (casting, shot listing, storyboarding, scheduling), production (working with actors and crew throughout the stages of auditions, rehearsals, and shooting) and post-production (editing, sound design, and promotion). Students will also gain more in-depth experience with lighting, camera movement, and other aspects of digital cinematography. Each student will plan and direct a 5-10 minute short project of high quality along with assisting classmates with their projects.
Semester(s) Offered: Fall, Spring
Requisite: Completion of FILM 150 with a grade of "C" or better.
Type: T

FILM 260 Documentary Moviemaking I 3-0-3
Provides an introduction to documentary movie production. Working individually or in pairs, students will research, plan, shoot, and edit an original short documentary movie. Students will also study some of the major types of documentaries (biographical, historical, ethnographic, experimental, issue-based, and others) and important documentary directors. The main focus of the course, however, will be production: identifying a good documentary subject, conducting interviews, shooting visually interesting footage, getting good location sound, and finding a story or pattern that can serve as an organizing principle while editing.
Semester(s) Offered: Fall
Requisite: Completion of FILM 150 with a grade of "C" or better.
Type: T

FILM 261 Documentary Moviemaking II 3-0-3
Provides continued hands-on experience with documentary movie production. Each student will be expected to produce and direct a longer, more in-depth documentary which involves more research and higher production quality. Students will also be expected to conduct independent research into the work of a documentary filmmaker of their choosing.
Semester(s) Offered: Fall
Requisite: FILM 260 with a grade of "C" or better.
Type: T

FILM 280 Digital Cinematography 1-5-3
This course provides hands-on instruction in cinematography for all types of digital video production. Emphasis will be placed on understanding and controlling exposure, focal length, depth of field, composition, and color balance. Students will also practice advanced lighting techniques, creating time-lapse videos, and post-production methods of improving image quality such as color correction, cropping, chroma keying, and compositing.
Semester(s) Offered: Spring
Requisite: Completion of FILM 150 with a grade of "C" or better.
Type: T

FILM 290 Film and Video as a Career 3-0-3
A survey of the range of career opportunities in film and video production, and a guide to creating a realistic and successful career plan. Students will gain practical knowledge in marketing, distribution, and crafting impactful video resumes. Through hands-on projects, students will build a digital portfolio showcasing their expertise and creativity, while learning how to present themselves confidently in the field and on camera. The course will also address legal and business issues for filmmakers, including copyright law, contracts, and release forms for locations and talent.
Semester(s) Offered: Spring
Requisite: Successful completion of FILM 140 and 150.
Type: T

FILM 298 Special Topics in Film Production 3-5-3
A hands-on course in a specific area of film/video production. Topics will vary and may include (but are not limited to) the following: Specific aspects of the production process such as lighting, production design, and acting for the camera; topics in postproduction such as visual effects and scoring; and video production in specific genres such as experimental video, music videos, animation, etc.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

FILM 299 Special Topics in Film Study 3-0-3
An in-depth study of one particular topic or aspect of film. Topics will vary with each course topics may include (but are not limited to) the following: a specific film genre; a cinematic period or movement; a particular regional or national cinema; a film technique such as musical score, special effects, or lighting; or the work of a particular film direction or writer.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101.
Type: T

Fire Science

FS 100 Fire Fighter A 3-2-4
This is the first of three courses designed to prepare a firefighter trainee to become a certified firefighter according to standards set by the National Fire Protection Association. It includes instruction in fire service history and organization, fire fighter safety, fire behavior, personal protective equipment, portable fire extinguishers, water supply, fire hose, fire streams, and ladders. NOTE: Students must be an active member of a fire department.
Semester(s) Offered: Spring
Requisite: Department consent
Type: C

FS 101 Principles of Emergency Services 3-0-3
This course provides an overview to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection/service; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

FS 102 Fire Behavior & Combustion 3-0-3
This course explores the theories and fundamentals of how and why fires start, spread, and how they are controlled.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

FS 110 Fire Prevention 3-0-3
This course provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

FS 115 Fire Fighter B 2-2-3
This is the second of three courses designed to prepare a firefighter trainee to become a Certified Firefighter according to standards set by the National Fire Protection Association. It includes instruction in rescue, building construction, forcible entry, ventilation, and fire control.
Semester(s) Offered: Fall
Requisite: FS 100.
Type: C

FS 116 Building Construction for Fire Protection 3-0-3
This course provides the components of building construction that relate to fire and life safety. The focus of this course is on fire fighter safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies.
Semester(s) Offered: Intermittently
Req**uisite: FS 100 or FS 101.**
Type: C

FS 120 Fire Service Vehicle Operator 1-0-1
This course is designed to give fire science personnel the basic knowledge and skills to safely perform fire service vehicle operations according to state and national standards. Note: Coordinator Permission required to enroll.
Semester(s) Offered: Spring
Requisite: Department consent
Type: C

FS 130 Fire Fighter C 1-2-2
This is the third of three courses designed to prepare a firefighter trainee to become a certified firefighter according to standards set by the National Fire Protection Association. It includes instruction in ropes and knots, fire protection systems, salvage, overhaul, protection of fire scene evidence, fire department communications, fire prevention, and public education.
Semester(s) Offered: Fall
Requisite: FS 115.
Type: C

FS 131 Fire Protection Systems 3-0-3
This course provides information relating to the features of design and operation of fire alarm systems, water based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers.
Semester(s) Offered: Intermittently
Requisite: FS 110 or FS 130.
Type: C

FS 159 Fire Suppression & Rescue 0.5-0-0.5
This is a refresher course for active fire department personnel. The successful student shall possess the skills necessary to properly function as a member of a fire suppression and rescue company.
Semester(s) Offered: Intermittently
Requisite: Department consent
Type: C

FS 160 Technical Rescue Awareness 0.5-0-0.5
This course is designed to introduce the student to the risk of structural collapse, rope, confined space, vehicle and machinery, water, wilderness, and trench rescues.
Semester(s) Offered: Intermittently
Requisite: Department consent
Type: C

FS 170 Strategy & Tactics 3-0-3
This course provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire grounds.
Semester(s) Offered: Intermittently
Requisite: FS 101 or FS 130.
Type: C

FS 181 Haz Mat First Responder 2.5-0-2.5
The successful student shall possess the skills necessary to operate as a hazardous materials first responder at the operations level according to national regulations and standards.
Semester(s) Offered: Summer
Requisite: Department consent
Type: C

FS 200 Fire Service Instructor I 3-0-3
The successful student shall possess the skills necessary to operate as a Fire Service Instructor I according to standards set by the National Fire Protection Association.
Semester(s) Offered: Spring
Requisite: FS 130.
Type: C

FS 201 Fire Officer I 3-0-3
The successful student shall possess the skills necessary to operate as a company fire officer according to standards set by the National Fire Protection Association.
Semester(s) Offered: Fall
Requisite: FS 130.
Type: C

FS 205 Fire Apparatus Engineer 3-0-3
A study of the operation of fire apparatus and the theory of hydraulics as used in fire protection. Emphasis is placed on the safe and proper use of fire apparatus and the application of hydraulic principles in fire protection problems.
Semester(s) Offered: Intermittently
Requisite: FS 130.
Type: C

FS 210 Fire Service Instructor II 3-0-3
The successful student shall possess the skills necessary to operate as a Fire Service Instructor II according to standards set by the National Fire Protection Association.
Semester(s) Offered: Spring
Requisite: FS 200.
Type: C

FS 211 Fire Officer II 3-0-3
The successful student shall possess the skills necessary to operate as a multi-company fire officer according to standards set by the National Fire Protection Association.
Semester(s) Offered: Fall
Requisite: FS 201.
Type: C

FS 260 Vehicle Rescue Operations 3-0-3
The successful student shall possess the skills necessary to operate as a rescue technician at the vehicle and machinery operations-level according to standards set by the National Fire Protection Association.
Semester(s) Offered: Intermittently
Requisite: FS 130 or EMS 105 or EMS 110.
Type: C

FS 262 Rope Rescue I & II 3-0-3
The successful student in this course shall possess the rope rescue skills necessary to perform a safe and effective rope rescue according to the applicable NFPA standards.
Semester(s) Offered: Intermittently
Requisite: FS 130 or EMS 105 or EMS 110.
Type: C

FS 264 Confined Space Rescue I & II 3-0-3
The successful student shall possess the skills necessary to perform a safe and effective confined space rescue according to the applicable NFPA standards.
Semester(s) Offered: Intermittently
Requisite: FS 130 or EMS 105 or EMS 110.
Type: C

FS 268 Water Rescue I & II 3-0-3
The successful student shall possess the skills necessary to perform a safe and effective water rescue according to applicable NFPA standards.
Semester(s) Offered: Spring
Requisite: FS 130 or EMS 105 or EMS 110.
Type: C

Variable up to
FS 280 Hazardous Materials - Awareness (1.5)-0-(1.5)
This course is designed to provide the educational components required for individuals who may come in contact with a hazardous materials incident.
Semester(s) Offered: Summer
Requisite: Department consent
Type: C

Variable up to
FS 299 Special Topics In Fire Science (4)-0-(4)
Application of fire science principles to specific problems through case studies, simulation, special projects, or problem-solving procedures. Prerequisite: Coordinator permission - employed by a fire department or fire brigade.
Semester(s) Offered: Intermittently
Requisite: Department consent
Type: C

French

FREN 101 Elementary French I 4-0-4
This introductory language course focuses on establishing a solid foundation in the four basic skill areas of reading, writing, listening comprehension and speaking in French. Students are also introduced to the history and cultures of the French-speaking world.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

FREN 102 Elementary French II 4-0-4
This introductory language course is a continuation of FREN 101and focuses on establishing a solid foundation in the four basic skill areas of reading, writing, listening comprehension and speaking in French. Students are also introduced to the history and cultures of the French-speaking world.
Semester(s) Offered: Spring
Requisite: FREN 101.
Type: T

FREN 201 Intermediate French I 4-0-4
Continued development of listening, speaking, reading and writing skills in French. Grammar review. Cultural and literary readings, compositions. Course is conducted almost entirely in French.
Semester(s) Offered: Fall
Requisite: FREN 102.
Type: T

FREN 202 Intermediate French II 4-0-4
Continued development of listening, speaking, reading and writing skills in French. Grammar review. Cultural and literary readings, compositions. Course is conducted almost entirely in French.
Semester(s) Offered: Spring
Requisite: FREN 201.
Type: T, IAI-H1 900

FREN 299 Special Topics in French Variable up to (4)-0-(4)
An in-depth study of various areas in French language and culture presented through lectures, discussions, and/or individual research and readings by the students. Topics will vary. May include travel/study activities.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

GS-Dev/Review Vocation Skills

GSVR 66 Foundry/Sandcasting 1-2-2
This course shall consist of lectures, demonstrations, and laboratory work involving the technology and skills of foundry (sandcasting). It includes the study of the history and the process of making a sandcasting mold, and the gating procedures that are used in industrial casting of brass and aluminum.
Requisite: None.

General Technology

GT 104 Math for Electronics 1.5-3-3
Topics of fundamentals of algebra, operations of signed numbers, exponents and square roots, triangular trigonometry and metric conversion with emphasis on the applications found in the study of electrical/electronics circuits will be studied. Offered in fall, spring, and summer. Graphing calculator required (TI-84).
Requisite: None.
Type: C

GT 105 Intro to Technical Mathematics 1.5-3-3
GT 105 will cover operations of signed numbers, exponents and square roots, basic algebra, ratios and proportions, angle measurements, area and perimeters of polygons, circles, geometric solids, and triangular trigonometry. Offered in fall, spring, and summer. Graphing calculator required (TI-84).
Requisite: None.
Type: C

Geography

GEOG 143 Travel/Study Tour 3-0-3
An in-depth study of various world regions via travel. The regions emphasized vary each semester the course is offered. The course may be taken more than once for credit under different itineraries.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

GEOG 151 Geography of the United States and Canada 3-0-3
A systematic investigation of environmental conditions and geographic patterns of human activities in the United States and Canada. Attention

is given to physiography, climate, human occupance patterns, economic activities, and human-environment relations.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: T

GEOG 152 World Regional Geography 3-0-3
This course introduces the basic concepts and tools of geography through a survey of the various regions of the world. Students will use spatial ideas and frameworks to explore and evaluate the causes of and interrelationships between environmental conditions and uneven patterns of human activities across the globe. Completion of this course fulfills the Non-Western Culture requirement for graduation from Southwestern.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-S4 906

GEOG 202 Economic Geography 3-0-3
This course investigates the changing geography of the global economy. Topics covered include economic globalization, trade and investment, production, and regional development. Completion of this course fulfills the Non-Western Culture requirement for graduation from Southwestern.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: T, IAI-S4 903N

GEOG 240 Intro to Mapping and GIS 3-0-3
This course is a practical study of Geographic Information Systems (GIS). Emphasis is placed on the use of ArcGIS software to map, analyze, and model geographic information relevant to fields such as forestry, economics, cartography, city planning, and health. Topics include mapmaking, GIS data creation and management, and map projections and coordinate systems. This course is cross-listed with GIS 100 (Intro to Mapping and GIS). Students will receive credit for only one of the cross- listed courses, either GIS 100 or GEOG 240.
Semester(s) Offered: Fall
Requisite: None.
Type: T

GEOG 241 Geographic Info Systems II 3-0-3
In this course, students will both expand their conceptual understanding of geospatial science and learn additional practical GIS software skills. The course focuses on remote sensing and raster data analysis, with additional attention given to 'spatially enabling' various types of data for use in a GIS.
Semester(s) Offered: Spring
Requisite: GEOG 240.
Type: T

Variable up to
GEOG 299 Special Topics In Geography (3)-0-(3)
An in-depth study of selected areas of geography. Individual research is emphasized. Topics vary each semester. This course may be taken more than once for credit under different topics.
Semester(s) Offered: Intermittently
Requisite: Sophomore standing, one course in geography.
Type: T

Geospatial and Aeronautical Information Systems

GIS 100 Intro to Mapping and GIS 3-0-3
This course is a practical study of Geographic Information Systems (GIS). Emphasis is placed on the use of ArcGIS software to map, analyze, and model geographic information relevant to fields such as forestry, economics, cartography, city planning, and health. Topics include mapmaking, GIS data creation and management, and map projections and coordinate systems. This course is cross-listed with GEOG 240 (Intro to Mapping and GIS). Students will receive credit for only one of the cross- listed courses, either GIS 100 or GEOG 240.
Requisite: None.
Type: C

GIS 101 Visual Design for GIS 3-0-3
This course is designed for students who possess a basic background in Geographic Information Systems (GIS). Learning in this course focuses on cartographic principles of map design, production, and evaluation through the application of hands-on activities using ArcGIS software. Cartographic tools and enhancements such as map layout, symbology, and labeling are emphasized. Students will apply project management skills to a class project.
Requisite: GIS 100 or GEOG 240 or instructor approval.
Type: C

GIS 102 Remote Sensing and Earth Imagery 3-0-3
This course introduces students to the basics of remote sensing, characteristics of remote sensors, and remote sensing applications in academic disciplines and professional industries. Emphasis is placed on image acquisition and data collection in the electromagnetic spectrum and data set manipulations. This course is designed for geographic information systems (GIS) students interested in imagery analysis.
Requisite: GIS 100 or GEOG 240 or instructor approval.
Type: C

GIS 103 GIS Data Management and Analysis 3-0-3
This course focuses on the development and application of spatial database models and processing techniques. Students of Geographic Information Systems (GIS) who wish to gain exposure to emerging data structures and methods via problem-based learning benefit from this course. The course deals with conceptual issues in spatial database development, analysis, display, and designing and creating spatial databases. Students work with a variety of GIS data types and edit GIS data within the geodatabase environment, with emphasis on real-world applications. The class project focuses on the design, creation and use of geodatabase to solve a problem.
Requisite: GIS 100 or GEOG 240 or instructor approval.
Type: C

German

GERM 101 Elementary German I 4-0-4
This introductory language course focuses on establishing a solid foundation in the four basic skill areas of reading, writing, listening comprehension and speaking in German. Students are also introduced to the history and cultures of the German-speaking world.
Semester(s) Offered: Fall
Requisite: None.
Type: T

GERM 102 Elementary German II 4-0-4
This introductory language course is a continuation of GERM 101 and focuses on establishing a solid foundation in the four basic skill areas of reading, writing, listening comprehension and speaking in German. Students are also introduced to the history and cultures of the German-speaking world.
Semester(s) Offered: Spring
Requisite: GERM 101.
Type: T

GERM 201 Intermediate German I 4-0-4
Continued development of listening, speaking, reading and writing skills in German. Grammar review. Cultural and literary readings, compositions. Course is conducted almost entirely in German.
Semester(s) Offered: Fall
Requisite: GERM 102.
Type: T

GERM 202 Intermediate German II 4-0-4
Continued development of listening, speaking, reading and writing skills in German. Grammar review. Cultural and literary readings, compositions. Course is conducted almost entirely in German.
Semester(s) Offered: Spring
Requisite: GERM 201.
Type: T, IAI-H1 900

GERM 299 Special Topics in German Variable up to (4)-0-(4)
An in-depth study of various areas in German language and culture presented through lectures, discussions, and/or individual research and readings by the students. Topics will vary. May include travel/study activities.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

Health & Exercise Science

HES 130 Physical Fitness I
0-2-1
An introduction to and participation in an individual physical fitness program using a combination of resistance training and aerobic conditioning. After initial orientation and assessment, students will be provided opportunities to improve levels of muscular and cardiovascular fitness using a prescribed program of exercise.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T

HES 131 Physical Fitness II
0-2-1
A continuation of physical fitness programming based upon individual improvement.
Semester(s) Offered: Fall, Spring, Summer
Requisite: HES 130.
Type: T

HES 151 Personal Health and Wellness 2-0-2
A study of vital health principles and problems using a wellness approach. Emphasis will be on the importance of making healthy lifestyle choices that affect individuals, families, and communities.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T

HES 152 First Aid-Medical Self Help 2-0-2
This course is designed to teach emergency care to be given to a victim in the event of accidental injury or sudden illness. Students will have the opportunity to obtain certification from the American Red Cross for Adult, Child and Infant CPR/AED and Standard First Aid,
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: C

HES 154 Nutrition, Exercise, & Weight Management 2-0-2
Designed to help the student better understand the relationship of dieting and exercise to obesity. Emphasis will be on the practical application of effective methods of weight management, including physical and behavior approaches. Fad diets, eating disorders, common problems of dieting, and proper eating habits will be studied.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T

HES 155 Physical Fitness & Wellness 2-0-2
Designed to help the student understand and evaluate wellness and exercise needs and develop an individual physical fitness program. The information presented represents a consensus of presently available scientific evidence in the areas of exercise physiology and health.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T

HES 156 Individual Exercise and Health 2-0-2
This course is designed to develop attitudes, strategies, and lifetime exercise habits for health. Emphasis will be placed on understanding the relationship between exercise and health over one's lifetime. .
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T

HES 158 Consumer Health 3-0-3
This course is designed to help the student develop the skills and strategies necessary to make intelligent decisions regarding the purchase and the use of health products and services.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T

HES 160 Nutrition for Health, Fitness and Sport 3-0-3
Introduces the student to current dietary guidelines appropriate for a healthy and physically active lifestyle. Explores the nutritional needs of physically active individuals, including recreational as well as competitive athletes. The role of each nutrient is reviewed, with emphasis on their utilization during exercise and recovery. Dietary modifications to optimize performance during different types of physical activity also will be discussed. A review of scientific data regarding ergogenic aids also will be presented.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T

HES 170 Introduction to Exercise Science 3-0-3
An introduction to physical education and exercise science for those considering careers in teaching, health, fitness, or recreation. Topics include historical foundations, teacher preparations, exercise physiology, exercise and sport psychology, physical fitness and health, and career preparation.
Semester(s) Offered: Spring
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T

HES 172 Physical Fitness Testing & Prescription 3-0-3
This course is an introduction to the principles of exercise testing and prescription as they apply to fitness, health, and performance. Topics covered include the role of the health- related components of fitness in health and performance, the physical fitness of normal and special populations, and the significance of cardiovascular programs through the life cycle.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T

HES 180 Personal Trainer Certification Prep 4-0-4
This course introduces the fundamentals of personal training to help prepare students for a national fitness certification examination. Students will learn how to develop and implement an individualized approach to exercise leadership in healthy populations and/or those individuals with medical clearance.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T

HES 230 Physical Fitness III 0-2-1
A continuation of physical fitness programming based upon individual improvement.
Semester(s) Offered: Fall, Spring, Summer
Requisite: HES 131.
Type: T

HES 231 Physical Fitness IV 0-2-1
A continuation of physical fitness programming based upon individual improvement.
Semester(s) Offered: Fall, Spring, Summer
Requisite: HES 230.
Type: T

HES 299 Spec Topics: Hlth & Ex Science Variable up to (4)-(4)-(4)
This course will cover special topics or problems in health and exercise science and provide students with the knowledge and ability to deal with those topics or problems in relation to their special requirements.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: T

Health Information Technology

HIT 101 Health Information Intro 2-0-2
This course covers: introduction to the Health Information Management field including orientation to various health care delivery systems (example: hospitals, ambulatory care, etc.), health information departments, the medical record, documentation requirements, the medical staff, role(s) of the health information technologist, the American Health Information Management Association, ethics, accrediting and licensing bodies (example: Joint Commission), and forms design. The student practices basic medical record techniques in the college laboratory and observes health information department functions through field trip(s) to area health care facilities and/

or practical or simulated applications. NOTE: This course requires access to a reliable Internet connection to complete online assignments. Students must be competent computer and internet users.
Semester(s) Offered: Fall
Requisite: Program admission required; Eligible for ENG 101 and MATH 97.
Type: C

HIT 110 Health Information Nomenclature I 2-0-2
This course is designed to introduce the student to the nomenclature used in the health information fields so that he/she may function professionally as he/she engages in oral and written communication, record analysis, coding, quality improvement activities, abstracting medical data, research, teaching and training employees, and preparing reports using medical language. NOTE: This course requires access to a reliable Internet connection to complete online assignments. Students must be competent computer and Internet users.
Semester(s) Offered: Fall
Requisite: Program admission required; Eligible for ENG 101 and MATH 97.
Type: C

HIT 130 Intro to Computers for HIT 3-0-3
This course focuses on healthcare administration applications of software, including word processing, spreadsheets, databases, and presentation graphics. The course is designed to assist students to acquire basic computer skills in word processor, spreadsheet, database, and presentation applications with a focus on navigation and accuracy; discussing and demonstrating how these applications are used in the healthcare environment; introducing methods to assemble and analyze patient data for the purpose of improving patient care and controlling costs. NOTE: This course requires access to a reliable Internet connection to complete online assignments. Students must be competent computer and Internet users.
Semester(s) Offered: Fall
Requisite: Program admission required; Eligible for ENG 101 and MATH 97.
Type: C

HIT 151 Pathophysiology 3-0-3
This course is designed to introduce the student to the study of diseases, disease processes and medical conditions. Through this class the student will acquire knowledge about surgical procedures used to treat these diseases. In addition, the student will learn about medications, laboratory tests and diagnostic resources used to detect and inhibit these conditions. NOTE: This course requires access to a reliable Internet connection to complete online assignments. Students must be competent computer and Internet users.
Semester(s) Offered: Spring
Requisite: HIT 101, HIT 110 each with a grade of "C" or better.
Type: C

HIT 160 Health Data Management 3-0-3
This course is a continued study of medical record/health information management practices including: health information technology applications and health information (medical record) functions, filing systems, record organization methodologies (assembly, scanning, etc.), quantitative and qualitative analysis, correspondence procedures and resume development and writing. The student practices basic health information (medical record) techniques in the college laboratory and observes overall health information (medical record) department functions through field trips to area health care facilities and/or practical or simulated applications. NOTE: This course requires access to a reliable internet connection to complete online assignments. Students must be competent computer and internet users.
Semester(s) Offered: Spring
Requisite: HIT 101 with a grade of "C" or better.
Type: C

HIT 161 Microcomputer Applications in HIT 3-0-3
This course will provide an overview of basic information technology concepts and its application to health care and associated delivery systems, the electronic health record or computerized medical record and the health information management department. The software laboratory assignments will focus on computer techniques in spreadsheet design, database management, work processing/transcription, and other health care applications. Topics include spreadsheet design, word processing/transcription, data collection/analysis, archival systems, data sources/sets, quality and integrity of health care data including introduction to the chargemaster,

reimbursement methodologies, etc. NOTE: This course requires access to a reliable internet connection to complete online assignments. Students must be competent computer and internet users.
Semester(s) Offered: Spring
Requisite: HIT 101, HIT 110, HIT 130 each with a grade of "C" or better.
Type: C

HIT 170 Health Information Nomenclature II 2-0-2
This course is a continuation of Health Information Nomenclature I. It is designed to teach the student proper spelling, pronunciation and meanings of medical terms. It is vitally important for the student to be able to converse with other health care providers in a professional manner. Understanding medical nomenclature is one of the basics needed to accomplish this. This course will also assist health information students to sufficiently analyze and evaluate health information (medical record) data. NOTE: This course requires access to a reliable internet connection to complete online assignments. Students must be competent computer and internet users.
Semester(s) Offered: Spring
Requisite: HIT 110 with a grade of "C" or better.
Type: C

HIT 200 Health Care Delivery 4-0-4
Students will continue their study of nomenclature and classification systems; applicable reimbursement methodologies (example: DRGs, MS-DDRGs), indexes and statistical reports of medical information; information handling and computer/information technology. Federal structure as it relates to health care, quality assessment and improvement, cancer and other registries and varied delivery systems (example: Managed Care, etc). NOTE: This course requires access to a reliable internet connection to complete online assignments. Students must be competent computer and internet users.
Semester(s) Offered: Fall
Requisite: HIT 160 with a grade of "C" or better.
Type: C

HIT 210 Health Statistics 3-0-3
This course will include the study of vital and public health statistics incorporating statutory and/or regulatory requirements as it relates to health information management; in-depth study of hospital statistics; sources, definitions, collection, reporting; presentation of data with the emphasis of reliability and validity of data. The importance of health care statistics as it relates to management, decision making, governmental agencies, quality assessment and research will be introduced. NOTE: This course requires access to a reliable internet connection to complete online assignments. Students must be competent computer and internet users.
Semester(s) Offered: Fall
Requisite: HIT 130, HIT 151, HIT 160, HIT 161, HIT 170 each with a grade of "C" or better.
Type: C

HIT 220 Classification Systems I 4-0-4
During this course students are introduced to the current classification and applicable legacy systems with emphasis on diseases, injury and procedure codes. Application of coding practices to applicable reimbursement methodologies (DRGs, MS-DRGs), and encoders. Students will apply skills learned with practical application and/or simulated activities/scenarios. NOTE: This course requires access to a reliable internet connection to complete online assignments. Students must be competent computer and internet users.
Semester(s) Offered: Fall
Requisite: BIOL 105, HIT 151, HIT 160, HIT 161, HIT 170 each with a grade of "C" or better.
Type: C

HIT 240 Classification Systems II 3-0-3
This course covers: instruction covering basic principles of current classification system (CPT/HCPCS), sequencing of codes and impact on reimbursement. Students will gain information about APC grouping, chargemaster, and medical necessity, and application of skills incorporating practical application and/or simulated activities/scenarios covered in HIT 220 and HIT 240. NOTE: This course requires access to a reliable internet connection to complete online assignments. Students must be competent computer and internet users.
Semester(s) Offered: Spring
Requisite: HIT 220 with a grade of "C" or better.
Type: C

HIT 245 Pharmacology for the HIT 2-0-2
The course provides an overview of basic concepts and terminology associated with medication structure, function, interaction and administration available for clinical management of patient care. Identification of diseases associated with certain medications will be studied. NOTE: This course requires access to a reliable internet connection to complete online assignments. Students must be competent computer and internet users.
Semester(s) Offered: Summer
Requisite: HIT 151, HIT 170 each with a grade of "C" or better.
Type: C

HIT 250 Legal Aspects of HI 2-0-2
This course covers: study of the medical record as a legal document; confidential communications, release of information, the medical record in court, consents, authorizations and releases, privacy and security, e-role(s) or information technology as it relates to legal aspects, Health Insurance Portability and Accountability Act, legislative process including federal court systems, legal vocabulary and retention management principles. NOTE: This course requires access to a reliable Internet connection to complete online assignments. Students must be competent computer and Internet users.
Semester(s) Offered: Spring
Requisite: HIT 101 with a grade of "C" or better.
Type: C

HIT 260 Professional Practice 0-4-2
Continuation Practicum I. The student is assigned to local health care/health information facilities or applicable department/location to practice the theory and techniques of the classroom. Note: Completion of all HIT courses or courses currently enrolled in last semester.
Semester(s) Offered: Spring
Requisite: Department consent
Type: C

HIT 270 Health Information Management 4-0-4
This course covers the basic principles of efficient and effective management, supervision, policy and procedure development, roles/functions of teams/committee leadership, training program design and implementation, operational workflow, revenue cycle, organization resource activities (budgeting) as it applies to the health information management profession. Includes also a basic overview of assessment and improvement processes and investigates health care delivery in the long-term care setting. NOTE: This course requires access to a reliable internet connection to complete online assignments. Students must be competent computer and internet users.
Semester(s) Offered: Spring
Requisite: HIT 200 with a grade of "C" or better.
Type: C

HIT 280 Advanced Coding 3-0-3
This course is designed to assist students in their efforts to achieve an explicit set of coding competencies needed to successfully pass the CCA examination. These competencies have been determined through a job analysis study conducted of practitioners. The competencies are divided into domains and tasks as outlined by AHIMA. This nationally recognized credential distinguishes coders by exhibiting commitment to the coding profession and demonstrating coding competencies across all settings, including both hospitals and physician practices. NOTE: This course requires access to a reliable internet connection to complete online assignments. Students must be competent computer and internet users.
Semester(s) Offered: Spring
Requisite: Concurrent enrollment in or completion of HIT 240 with a grade of "C" or better.
Type: C

HIT 285 Advanced Data Analytics 3-0-3
This course is designed to assist students in their efforts to advance their skills in analytics for carious health care settings. The course will start with an overview of data mining techniques, tools for data organization/analysis, process of analyzing data, and the use of external data for benchmarking. These techniques and tools will be covered in the context of healthcare data using an electronic health record. The course will address the benefits and challenges of analyzing healthcare data, and the integration strategies for various data types commonly found in EHRs as well as environmental and biological data that affects healthcare. NOTE: This course requires access to a reliable internet connection to complete online assignments. Students must be competent computer and internet users.
Semester(s) Offered: Spring
Requisite: HIT 210 with a grade of "C" or better.
Type: C

HIT 290 Health Information Capstone 1-0-1
This review class is designed to assist students in their efforts to prepare for the American Health Information Management Association's (AHIMA's) Registered Health Information Technician (RHIT) examination. NOTE: This course requires access to a reliable Internet connection to complete online assignments. Students must be competent computer and Internet users.
Semester(s) Offered: Spring
Requisite: HIT 220, HIT 30 each with a grade of "C" or better; concurrent enrollment in or completion of HIT 270 with a grade of "C" or better.
Type: C

Health Related Occupations

HRO 100 Medical Terminology 1-0-1
A course designed to provide an introduction to medical terminology through the study of word roots, prefixes and suffixes.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

HRO 101 Health Science Careers 2-0-2
In this course, students will explore allied health professional opportunities focusing on the educational and professional requirements, unique skill characteristics, historical viewpoints and progression of the profession, and the scope of professional practice for each profession. Student will learn of career growth potential while exploring personal professional assessment in allied health careers.
Semester(s) Offered: Fall
Requisite: None.
Type: C

HRO 105 Nurse Assistant 5.5-3-7
This state-approved Nursing Assistant training course prepares students to perform simple and basic nursing functions utilized in a variety of health care settings under the supervision of a nurse. Instruction includes hands-on experience in the classroom, lab and clinical settings. Skills taught include the 21 IDPH required skills as well as all elements of personal care, proper body mechanics, safety measures including cardiopulmonary resuscitation (CPR), vital signs, resident rights, infection control, communication and observation. Students will also learn basic anatomy & physiology as well as medical terminology. Following successful completion of the course, a student must pass a written state competency examination to work as a certified nurse assistant (CNA). NOTE: To meet the Illinois Department of Public Health's requirements, students must be 16 years of age and pass a criminal background check to participate in this course which is offered in either accelerated (six weeks), summer (eight weeks) or extended (16 weeks) time frame. Students will be dropped from the course if they fail to pass the criminal background check, meet IDPH course attendance requirements, or fail to meet clinical facility requirements. Students must have completed, at a minimum, eight years of grade school or provide proof of equivalent knowledge; be in good physical and emotional health; and have good interpersonal communication skills.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

HRO 110 Venous Access Skills I 0-1-0.5
The course provides basic information and practical application required for proficiency in venous access for blood collection or medication administration. Emphasis is on vein selection and proper technique for access.
Requisite: Enrollment in a health sciences program or designation as pre-health science.
Type: C

HRO 111 Venous Access Skills II 0-1-0.5
The course provides basic information and practical application required for proficiency in venous access for blood collection or medication administration. Emphasis is on medication administration.
Requisite: HRO 110.
Type: C

HRO 120 Pharmacology 3-0-3
This course is designed to study the classification of drugs, their actions and effects within the human body. Study will include indications, side effects, adverse reactions, dosages and administration. Legal aspects will also be included in course content.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

HRO 150 Fundamentals of Nutrition 2-0-2
A presentation of normal nutrition emphasizing the purpose of nutrition, the food nutrients and sources, dietary application of nutrition to meet the needs of the normal, altering dietary needs to comply with age, cultural and regional differences, and some modifications for illness and disease.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: T

HRO 160 Medical Terminology 3-0-3
A course designed to provide an in-depth study of medical terminology as it relates to the structure and function of the human body in health and disease.
Requisite: None.
Type: C

HRO 299 Problems in Health Related Occupations
Variable up to (4)-(2)-(4)
The study of problems facing workers in the health care delivery system. Application of allied health occupation principles to specific problems through case studies, simulation, special class projects or problem-solving procedures.
Requisite: None.
Type: C

Heating, Ventilation, Air Cond, & Refrigeration

HVAR 100 Fitting, Fusion and Fabrication 3-2-4
Practical welding, soldering and brazing of copper, aluminum and steel tubing will be covered. Several joining processes will be used to fabricate and repair the various connections and fittings used in air conditioning systems. Black iron and galvanized pipe, pipefittings, and hand valves for water and gas will be discussed, as well as PVC pipe and connections.
Requisite: None.
Type: C

HVAR 101 Refrig. & A.C. Principles I 3-2-4
Maintenance and repair of single-unit portable air conditioners. Emphasizes checking compressor and air circulator. Basic refrigeration theory and component application. Refrigerant recovery and recycling processes will be demonstrated.
Requisite: Concurrent enrollment in or completion of HVAR 103 or coordinator approval.
Type: C

HVAR 103 Basic Electrical Controls & Systems 3-2-4
Introduction to basic electricity, electrical test equipment, wiring diagrams, electrical symbols and electrical motors. The course also includes an introduction to residential air conditioning and heating controls.
Requisite: None.
Type: C

HVAR 152 Advanced Refrig. & A.C. Principles 3-2-4
An advanced course in air conditioning and refrigeration. Different types of units will be discussed with emphasis on split-system air conditioners. Refrigerant recovery and recycling processes will be demonstrated.
Requisite: HVAR 101 or coordinator approval.
Type: C

HVAR 153 Heating Fundamentals 3-2-4
Introduces the student to four major categories of heating systems, gas-fired forced-air, oil heating, hydronics, and electric furnaces. The basic configurations, components, and controlling systems for each category will be covered and compared to the others. Troubleshooting for each type of heating system will also be discussed.
Requisite: HVAR 103 or coordinator approval.
Type: C

HVAR 201 Psychrometrics & Load Calculations 3-2-4
Contains ventilation and air conditioning basics with emphasis placed on psychrometrics and heat load calculations in order to determine equipment size needed for specific applications of both winter and summer air conditioning.
Requisite: Concurrent enrollment in or completion of HVAR 152 or Coordinator approval.
Type: C

HVAR 202 Commercial Refrigeration I 3-2-4
Introduces the components that make up commercial refrigeration systems as well as their application within the systems. Troubleshooting and repair of commercial refrigeration systems are introduced. Testing of compressors, metering devices, evaporators, condensers and specialty controls are emphasized.
Requisite: HVAR 101 or coordinator approval.
Type: C

HVAR 203 High Efficiency Heating Systems 1-2-2
Emphasizes changes that have occurred in recent years in the field of heating technology. Includes the introduction of pulse furnaces, condensing furnaces, sealed combustion systems, and advanced electronic ignition systems. Solid state control modules will also be introduced.
Requisite: HVAR 103 and HVAR 153 or Coordinator approval.
Type: C

HVAR 208 Intro to HVAR Computer Applications 1-1-1.5
This course is designed to introduce the student to the use of computer related HVAR aids such as computerized load calculations, online job searches and HVAR training aids.
Requisite: None.
Type: C

HVAR 210 Mech Codes & Installation Practices 3-2-4
Students will learn how to install various major appliances. Plumbing and venting codes as set forth in the local codes will be discussed.
Requisite: None.
Type: C

HVAR 211 Distribution Panels & Elect Building Wiring 2-2-3
Students will learn how to install, repair, and estimate costs for wiring in residences and commercial establishments for appliances.
Requisite: None.
Type: C

HVAR 251 Commercial Refrigeration II 3-2-4
Commercial refrigeration systems designs identified and component efficiency studies are made to help explain the overall make-up of commercial refrigeration systems. Troubleshooting of these systems is emphasized.
Requisite: HVAR 202 or Coordinator approval.
Type: C

HVAR 252 Air Conditioning & Htg Sys. Design 3-2-4
Using blueprints and heat load information, the student designs air conditioning and heating distribution systems. The student is introduced to commercial roof top air conditioning units in this course.
Requisite: HVAR 201 or Coordinator approval.
Type: C

HVAR 253 Licensing & Certification Prep 3-0-3
The course consists of a series of practice tests over a wide variety of subjects. These subjects include: residential heating, residential cooling, heat pumps, light commercial equipment, commercial equipment, mechanical installation practices, as well as some major appliance topics. The tests are designed to help the student prepare for any type of certification test that he/she may be required to take.
Requisite: 12 hours of HVAR courses completed.
Type: C

HVAR 256 Advanced Elect. Controls & Systems 3-2-4
A review of basic controls and circuitry leading to advanced air conditioning, heating and refrigeration controls and circuitry as well as solid state electronics controls.
Requisite: HVAR 103 or coordinator approval.
Type: C

HVAR 257 Internship 0-20-4
Gives the students occupational experience while completing the prescribed course of study in HVAR. This is an elective to provide on-the-job experience for the student entering the air conditioning, heating and refrigeration field. The student must complete 320 hours of work experience for four semester hours of credit.
Requisite: 12 hours of HVAR courses completed. Department consent
Type: C

HVAR 258 Natl Electrical Code Interpretation 3-0-3
Advanced studies of the terms and concepts that are required for proficiency in interpretation of electrical codes and regulations. Based on the National Electrical Code and a review of practical electrical field knowledge and industrial/residential qualifying exams. This course prepares the student for future career advancements that involve testing by various regulatory agencies. Of particular interest to electricians, contractors, inspectors, and pre-architecture/engineering students.
Requisite: None.
Type: C

HVAR 260 Refrigerant Transition/Recovery Cert 0.5-0-0.5
Prepares individuals with a basic knowledge of air conditioning and refrigeration to successfully pass an environmental protection agency approved certification exam. This exam will allow the individual to work in the refrigeration and air conditioning industry.
Requisite: None.
Type: C

HVAR 262 Air Delivery Systems Materials & Methods 0-2-1
Introduces sheet metal components necessary to physically install a heating and air conditioning system. Tools and assembly will also be covered.
Requisite: None.
Type: C

HVAR 263 Heat Pumps 1.5-1-2
Introduces air-to-air and ground source heat pump systems. Components unique to heat pumps will be discussed, along with their function in the system. Control systems and troubleshooting will be covered. Emphasis will be placed on the selection of components and the installation of heat systems.
Requisite: HVAR 152 or Coordinator approval.
Type: C

HVAR 280 Commercial Cooking Equipment I 1.5-1-2
This course introduces the components that make up commercial cooking equipment as well as their application. Troubleshooting and repair of commercial cooking equipment are introduced as well. Testing of ignition systems and operating systems as well as specialty controls are emphasized.
Requisite: HVAR 103 and HVAR 153 or Coordinator approval.
Type: C

HVAR 289 USS MOD19-Principles Of HVAC 1.5-1-2
This course will introduce the students to the principles of heating, ventilation, air conditioning and refrigeration. Additionally students will be prepared to take the EPA exam for a refrigerant transition/recovery certificate.
Requisite: None.
Type: C

Variable up to
HVAR 299 Special Problems in HVAR (4)-0-(4)
This course is designed to meet the needs of students requiring instruction on special topics or problems in the heating, ventilation, air conditioning and refrigeration field. This course provides the student with the knowledge and/or skills necessary to address the particular topics or problems outlined in the course syllabus.
Requisite: None.
Type: C

History

HIST 101 World Civilization I 3-0-3
This course is a survey of world history from the birth of civilization to the beginning of the Age of Exploration at the close of the 15th century. Subjects discussed will include the evolution of Greek, Roman, Chinese, Japanese, Islamic, and Native American civilizations; the development of the great world religions; and the birth and growth of Europe. This course will conclude with a discussion and a review of the Age of Exploration.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-S2 912N

HIST 102 World Civilization II 3-0-3
This course is a survey of world history from the Age of Exploration to modern times. Subjects discussed include the stabilization and growth of Europe. Europe's impact on the Americas, the development of non-Western civilizations, the age of Enlightenment and revolution in Europe, the development of industrialization, nationalism, imperialism, and the major events of the twentieth century.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-S2 913N

HIST 114 Latin American History 3-0-3
This course is a review of the history and development of Latin America, beginning with the peopling of the Western hemisphere and the evolution of the native states of Central and South America. Specific subjects covered include the Spanish conquest and its effects on the Americas, the Latin American revolutions and the post-revolutionary period, and the rise and development of the modern Latin American states. The course concludes with a review of modern developments and current events in Latin America. Completion of this course fulfills the third world culture requirement for graduation from Southwestern Illinois College.
Semester(s) Offered: Spring
Requisite: Eligible for ENG 101.
Type: T, IAI-S2 920N

HIST 115 Mid-East History 3-0-3
An introduction to the area and nations which comprise the Middle East. The historical, political, and religious evolution of the Middle East will be reviewed, along with the development and current status of regional and national problems which confront the area. Completion of this course fulfills the Non-Western Culture requirement for graduation from SWIC.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: T, IAI-S2 920N

HIST 117 African History 3-0-3
A broad overview of the historic, economic, political, social and cultural development of the African continent. Particular emphasis will be upon the background of this area and how this impacted its development and importance to the industrialized world. Completion of this course fulfills the Non-Western Culture requirements for graduation from Southwestern Illinois College.
Semester(s) Offered: Fall
Requisite: Eligible for ENG 101.
Type: T, IAI-S2 920N

HIST 118 Asian History 3-0-3
The course is an introduction to the area and nations which comprise Asia. The historical, political, and religious evolution of Asia will be reviewed, along with the development and current status of regional and national problems which confront the area. Completion of this course fulfills the Non-Western Culture requirement for graduation from SWIC.
Semester(s) Offered: Spring
Requisite: Eligible for ENG 101.
Type: T, IAI-S2 920N

HIST 154 History Travel/Study Tour 3-0-3
An in-depth historical study of various regions via travel. The regions emphasized vary each semester the course is offered. The course may be taken more than once for credit with different itineraries.
Requisite: None.
Type: T

HIST 180 U.S. History to 1865 3-0-3
The development of the American civilization starting with the European background and ending with the Civil War. Includes the Age of Discovery; the period of colonization of the Spanish, French, Dutch and English; the American Revolution; the early years of the Republic; the development of the Constitution; the War of 1812; the growth of nationalism and manifest destiny; and the Civil War.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-S2 900

HIST 181 U.S. History, 1865 to the Present 3-0-3
The course begins with the Reconstruction period, and includes the transformation of America from an agrarian to urban civilization with emphasis on politics, business, finance, labor and society. Among the topics covered are the end of Isolation, the Populist and Progressive movements, World War I, the Roaring 20s, the Great Depression, World War II, the Cold War, the emergence of the Civil Rights Movement, the 1960s, and National Politics: 1968-1998.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-S2 901

HIST 230 African-American History 3-0-3
A course designed to study the African-American impact on the economic, political, social and cultural institutions of the United States. Topics covered include slavery prior to the Civil War, the war itself, Reconstruction and the establishment of the Jim Crow system. Included in this course is an examination of the role of the African-American in the 20th century, the Civil Rights movement and the election of the first African-American President, Barack Obama.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-H2 909D

HIST 232 United States at War 3-0-3
This course attempts to identify the social, cultural, economic, diplomatic and political influences of war on life in the United States. It also examines the causes, diplomacy, battles, leaders, and results of the different wars. The course covers the Revolutionary War to the conflict in the Persian Gulf.
Semester(s) Offered: Fall
Requisite: Eligible for ENG 101.
Type: T

HIST 250 20th Century Western Civilization 3-0-3
A survey of the 20th Century Western Civilization which includes interactions with Eastern and developing countries, and an examination of the definitions, causes, and effects of the major forces and events that have shaped the development of the modern western societies and the world.
Semester(s) Offered: Spring
Requisite: Eligible for ENG 101.
Type: T

HIST 286 History of Religion 3-0-3
A survey of the history of the world's religions with an emphasis upon each faith's origins, important leaders, mythology and doctrine, organizational development, and influence upon society. Primal religions, Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Taoism, Shinto, Judaism, Christianity, and Islam are among the religions examined. The approach of the course is open and unbiased, promoting the intellectual study of religion. Completion of this course fulfills the Non-Western Culture requirement for graduation from Southwestern.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-H5 904N

HIST 292 U.S. History Since 1945 3-0-3
The course involves concentration in areas of U.S. history since 1945. Includes the roles played by women, minorities, the business labor movement, cultural patterns, the civil rights movement, presidential administrations, the cold war, and foreign policy. U.S. foreign policy will be examined from the prewar era to the present day.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: T

HIST 299 Special Topics In History Variable up to (3)-0-(3)
An in-depth study of history presented by discussions and/or individual research and reading by the student. Topics vary each semester. This course may be taken more than once if different topics are discussed.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101.
Type: T

Histotechnology

HT 100 Intro to Histotechnology 2-0-2
This course provides an introduction to the histology laboratory. Emphasis is on regulation, accreditation, personnel, safety, instrumentation and mathematic principles applicable to the histology laboratory.
Requisite: None.
Type: C

HT 105 HT Clinical Apprenticeship I 0-6-3
The course is the first of the Histotechnology apprenticeship clinical rotations. Students will be introduced to the Histotechnology lab. Focus will be on safety, workflow and accessioning.
Requisite: None.
Type: C

HT 110 Histo Techniques and Practice 2-0-2
This course will address the initial steps of preparing tissues and fluids for staining and eventual mircroscopic examination. Emphasis is placed on gross examination and dissection, fixation, processing, embedding, decalcification, cytology preparation and special collection techniques.
Requisite: None.
Type: C

HT 115 HT Clinical Apprenticeship II 0-6-3
The course is the second of the Histotechnology apprenticeship clinical rotations. Students will receive instruction in basic techniques employed in the histology laboratory.
Requisite: None.
Type: C

HT 200 Histological Staining 3-0-3
This course emphasizes the microscopic structure of primary tissue types and the staining procedures commonly used in the histology laboratory.
Requisite: None.
Type: C

HT 205 HT Clinical Apprenticeship III 0-6-3
This course is part of the Histotechnology apprenticeship. Students will be trained in preparation of tissues for microscopic examination. Emphasis in this rotation is on embedding and cutting tissues for mounting on slides.
Requisite: None.
Type: P

HT 210 Histochemistry 4-0-4
This course focuses on histological applications of immunochemistry, enzyme procedures and molecular diagnostic techniques.
Requisite: None.
Type: C

HT 215 HT Clinical Apprenticeship IV 0-6-3
This course is part of the Histotechnology apprenticeship. Students will be trained in preparation of tissues for microscopic examination. This session will focus on proper staining techniques and microscopic examination.
Requisite: None.
Type: C

HT 225 HT Clinical Apprenticeship V 0-6-3
This course is part of the Histotechnology apprenticeship coursework. Under supervision, students will perform the duties of a histotechnician.
Requisite: None.
Type: C

HT 230 HT Exam Review 1-0-1
This course is designed to prepare students for the national certification exam in histotechnology.
Requisite: None.
Type: C

Homeland Security

HS 100 Intro to Homeland Security 3-0-3
This course addresses the functions of Homeland Security and critical infrastructure and asset protection as they relate to government, industry, and the community. The key functions of threat prevention, crisis response, and operations recovery are addressed from a variety of perspectives given that homeland security is a responsibility that is shared by government agencies, the private sector, and individuals, encompassing a broad spectrum of professional career positions throughout our society. This course provides an overview of the elements involved in the homeland security function, as well as the challenges critical infrastructure managers in government and industry can/will face while maintaining mission operations and staff accountability in the midst of multiple overlapping roles and responsibilities in our rapidly changing world. NOTE: This course requires access to a reliable Internet connection to complete online assignments. Students must be competent computer and Internet users.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: C

Horticulture

HORT 102 Intro to Horticulture 3-0-3
An introduction to the principles and practices in the development, production, and use of horticultural crops (fruits, vegetable, greenhouse, turf, nursery, floral and landscape). Includes the classification, structure, growth and development, and environmental influences on horticultural plants; horticultural technology; and an introduction to the horticultural industries. It is required of all first-year students in the program unless the requirement is waived by divisional approval.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T, IAI-AG 905

HORT 112 Media & Fertility 3-2-4
This course contrasts the nature and properties of artificial soils and their fertility with natural soils. Media and fertility requirements for hydroponics, vegetables, bedding plants, nursery stock in the greenhouse and outdoors are discussed. Special emphasis is placed on soil sterilization, preparation of media, irrigation and drainage, liquid fertilization, and time-released fertilizers.
Semester(s) Offered: Fall
Requisite: None.
Type: C

HORT 120 Container Gardening 1-2-2
This course is designed to teach students the art, skill, and technique of container gardening. Selection of appropriate containers, media, and plant materials for various types of container gardens and the maintenance of these container gardens will be the primary focus.
Semester(s) Offered: Odd only Spring
Requisite: None.
Type: C

HORT 132 Garden Center & Nursery Mgmt 3-2-4
The study of cultural and production practices, such as propagation by seeding, cutting and grafting. It also teaches nursery management and layout, including purchasing, marketing, and pricing.
Semester(s) Offered: Fall
Requisite: None.
Type: C

HORT 135 Turf Management 3-2-4
The study of grass types, uses, land preparation, seeding, sodding, irrigation, fertilization, pests and management practices of turf.
Semester(s) Offered: Fall
Requisite: None.
Type: C

HORT 136 Identification & Use of Ornamentals 2-2-3
The study of the identification, ecology and use of ornamental plants, woody and herbaceous plants, deciduous trees, shrubs, and ground covers.
Semester(s) Offered: Fall
Requisite: None.
Type: C

HORT 152 Greenhouse Management 3-2-4
The study of watering, fertilization, ventilation, temperature, humidity, light and general management practices of greenhouses.
Semester(s) Offered: Spring
Requisite: None.
Type: C

HORT 165 Floral Design 2-2-3
This course includes the study of basic design principles, decorative uses and arrangements of flowers, foliage, and accessories. This includes the construction of occasional floral arrangements.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

HORT 175 Home Gardening 3-0-3
The study of lawn care, plantings, seedlings, flowers, fruits, vegetables, trees and shrubs with the homeowner in mind.
Semester(s) Offered: Spring
Requisite: None.
Type: C

HORT 195 Indoor Plant Culture and Gardening 2-2-3
The student will learn identification, culture techniques and propagation of foliage and conservatory plants, with uses in accenting interior décor.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

HORT 215 Horticultural Diagnostics 2-2-3
A diagnostic approach to plant problems is given using a systematic evaluation of the site and affected plants. Diagnostic tools and sampling are discussed. Examples of noninfectious disorders, insects, infectious diseases, as well as environmental problems are presented.
Semester(s) Offered: Fall
Requisite: HORT 102 with a grade of "C" or better or coordinator permission.
Type: C

HORT 226 Landscaping 3-0-3
This course teaches the principles of design in landscaping, site analysis, construction and costs with the aid of drawings, models and case studies.
Semester(s) Offered: Intermittently
Requisite: HORT 102 with a grade of "C" or better or coordinator permission. Completion of HORT 136 is recommended.
Type: C

HORT 228 Computer-Aided Landscaping 1-4-3
In this course students will use a current computer software package to create two-dimensional and perspective views, as well as three-dimensional presentations of landscape designs. They will create photorealistic color designs, generate professional drawings, and produce detailed estimates that match the landscape plans.
Semester(s) Offered: Spring
Requisite: HORT 102 with a grade of "C" or better or coordinator permission. Completion of HORT 136 is recommended.
Type: C

HORT 235 Advanced Turf Management 2-2-3
Topics covered in this course include grass types, uses, land preparation, seeding, sodding, irrigation, fertilization, pests, and management practices of turf.
Semester(s) Offered: Intermittently
Requisite: HORT 135 with a passing grade or coordinator permission.
Type: C

HORT 237 Arboriculture 3-0-3
The study of production of trees, shrubs and herbaceous plants as well as their placement, cultivation, arrangement, and management for ornamental use.
Semester(s) Offered: Intermittently
Requisite: HORT 102 with a grade of "C" or better or coordinator permission. Completion of HORT 132 is reccomended.
Type: C

HORT 242 Fruit Production 2-2-3
The study of the science and practice of growing, harvesting, handling, storing, processing, and marketing of tree fruits. It is designed to present students with the scope of fruit trees common to commercial and personal production in the Midwest.
Semester(s) Offered: Fall
Requisite: HORT 102 with a grade of "C" or better or coordinator permission.
Type: C

HORT 252 Advanced Greenhouse Management 3-0-3
Commercial crop production and management practices including cultural and technical aspects, and management of personnel, records and overhead.
Semester(s) Offered: Odd only Spring
Requisite: HORT 152 with a passing grade or coordinator permission.
Type: C

HORT 262 Small Fruit Production 2-2-3
This course teaches the science and practice of growing, harvesting, handling, storing, processing, and marketing of small fruits common to commercial and personal production in the Midwest (e.g., strawberries, blackberries, raspberries, blueberries, grapes, etc.).
Semester(s) Offered: Spring
Requisite: HORT 102 with a grade of "C" or better or coordinator permission.
Type: C

HORT 265 Advanced Floral Design 2-2-3
This is an advanced floral design course with emphasis on artistic qualities, sympathy floral arrangements, bridal designs, and theme development.
Semester(s) Offered: Intermittently
Requisite: HORT 165 with a passing grade or coordinator completion.
Type: C

HORT 275 Grounds Maintenance 4-0-4
This course emphasizes practical applications of grounds management techniques which are approached abstractly in other horticulture classes. When possible, the school facilities will be used as examples, but area parks, cemeteries, and other real estate complexes will also be visited.
Semester(s) Offered: Intermittently
Requisite: HORT 102 with a grade of "C" or better or coordinator permission.
Type: C

HORT 280 Vegetable Gardening 2-2-3
This course is designed to teach students the science and practice of growing, harvesting, handling, storing, processing, and marketing vegetables for the home garden and commercial production.
Semester(s) Offered: Summer
Requisite: HORT 102 with a grade of "C" or better or coordinator permission.
Type: C

HORT 287 Supervised Intern Employment 0-10-2
This course allows students to earn academic credit for supervised on-the-job experience at local horticulture businesses. Students will apply skills learned within the horticulture curriculum. Students must have a minimum of 75 hours of hands-on experience per credit hour of internship.
Semester(s) Offered: Intermittently
Requisite: Department consent
Type: C

HORT 288 Supervised Intern Employment 0-20-4
This course allows students to earn academic credit for supervised on-the-job experience at local horticulture businesses. Students will apply skills learned within the horticulture curriculum. Students must have a minimum of 75 hours of hands-on experience per credit hour of internship.
Semester(s) Offered: Intermittently
Requisite: Department consent
Type: C

HORT 289 Supervised Intern Employment Variable up to 0-(30)-(6)
This course allows students to earn academic credit for supervised on-the-job experience at local horticulture businesses. Students will apply skills learned within the horticulture curriculum. Students must have a minimum of 75 hours of hands-on experience per credit hour of internship.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

HORT 298 Horticultural Project 2-0-2
The student will propose, plan, budget time and labor, and complete a capstone project within their Horticultural program. This will include a final presentation before the Horticultural Advisory Committee and other members of the horticultural community to demonstrate a proficiency in an area of horticulture.
Semester(s) Offered: Fall, Spring, Summer
Requisite: HORT 102, HORT 132, HORT 152, HORT 215 Each with a grade of "C" or better; completion of or concurrent enrollment in HORT 289.
Type: C

HORT 299 Special Topics In Horticulture Variable up to (4)-(4)-(6)
Application of horticulture principles to specific problems through case studies, simulation, special projects or problem-solving procedures.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

Human Services Technology

HMS 100 Introduction to Human Services 3-0-3
This course provides an introduction to the field of human services as preparation for advanced study or employment in the human services profession. Beginning with historical developments, the course will present issues encountered in the field and techniques and resources for intervention. An overview of human services ethics, research, model programs, and policies will be covered. In addition, various specializations including youth care, rehabilitation, criminal justice, and elder care services will be discussed.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

HMS 200 Human Services Applications 3-0-3
This course provides an overview of the skills and applications necessary to work in the field of human services. This course also serves as elective preparation for advanced study in the human services profession. Specific issues encountered in the field will be addressed in regards to current ethical and professional standards, policy, procedures, and practice. The diversity of special populations and the interdependent relationships of community organizations designed to meet their needs will be examined.
Semester(s) Offered: Fall, Spring
Requisite: HMS 100 with a grade of "C" or better.
Type: C

HMS 250 Human Services Seminar 3-0-3
This seminar provides coursework essential to preparation for the transition from the classroom to the "real world." Various issues will be covered such as the purpose and goals of supervision and encountering diverse populations. The practice of critical thinking skills and an emphasis on legal and ethical concerns will be discussed. Maintaining perspective will be addressed when dealing with common major problems such as poverty and homelessness, chemical dependency and substance abuse, sexually transmitted diseases including HIV/AIDS, and death and dying. Planning for the future including networking, interviewing strategies, professional certifications, and advanced degrees will be examined.
Semester(s) Offered: Fall, Spring
Requisite: HMS 200 with a grade of "C" or better.
Type: C

HMS 280 Human Services Practicum 0-20-4
This course provides supervised experience in various human services agencies and specializations. Clinical exposure provides students with the opportunity to practice concepts and skills learned throughout the program. Students will be required to sign a Code of Ethics Compliance before entering fieldwork.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Department consent
Type: C

Humanities

HUM 200 Humanities Travel/Study 3-0-3
This course seeks to introduce students to another part of the world through travel. The class will focus on select features of a country or place. These might include such things as culture, language and literature, politics, geography, art and architecture, etc. The places and aspects focused on may change with each offering of the course. Given these changes, the course may be taken more than once for credit.
Requisite: None.
Type: T

Independent Study

IND 296 Independent Study Variable up to (4)-(6)-(6)
For the student with unique capabilities and interests. Designed cooperatively between the student and the division with a faculty adviser assigned to the student by the dean to guide the student and evaluate progress.
Requisite: Department consent
Type: T

Industrial Electrical Wireman

IEW 110 Intro to Math Apps for the IBEW 2-0-2
This course is part of the IBEW Apprenticeship Program. The topics to be covered include basic math concepts, units and conversion, metric system, square roots, solving algebraic equations, scientific notation, and basic principles of geometry, vector, ratios and proportions.
Requisite: None.
Type: C

IEW 111 IBEW Electrician Inside Wireman I 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include job site safety, electrician's tools, material rigging, basic conduit bending, electrical calculations and basic blueprint reading.
Requisite: None.
Type: C

IEW 112 IBEW Electrician Inside Wireman II 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include direct current theory, series and parallel circuits, circuit calculations and national electrical code.
Requisite: None.
Type: C

IEW 113 IBEW Electrician Inside Wireman III 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include codeology as it relates to the National Electrical Code, measuring processes used in the electrical industry, intermediate conduit bending, and hydraulic, mechanical and hand benders.
Requisite: None.
Type: C

IEW 114 IBEW Electrician Inside Wireman IV 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include inductance and capacitance in AC circuits, National Electrical Code standards relating to transformers, transformer theory, transformer design and calculations, wiring methods and devices.
Requisite: None.
Type: C

IEW 118 IBEW Elec Wireman Internship I 0-20-4
This course is designed to compliment classroom instruction for the Construction Electrical Specialist program. This on-the-job component will reinforce both knowledge and skills of the apprentice by hands-on experience relating to topics such as the wiring of residential, commercial, industrial and/or specialized electrical systems. All of the on-the-job work-related activities will be performed under the direct supervision of a journeyman electrician.
Requisite: None.
Type: C

IEW 131 IBEW Electrician Residential I 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include job site safety, introduction to the National Electrical Code, basic algebra, basic trigonometric functions, DC Theory, electrician's tools, material rigging, basic electrical calculations.
Requisite: None.
Type: C

IEW 132 IBEW Electrician Residential II 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include direct current theory, series and parallel circuits, circuit calculations, basic blueprint reading and the National Electrical Code
Requisite: None.
Type: C

IEW 138 IBEW Elec Residential Internship I 0-20-4
This course is designed to complement classroom instruction for the Construction Electrical Specialist program. The on-the-job component will consist of work relating to the wiring of residential installations and specialized electrical systems for residential applications. All of the on-the-job work-related activities will be performed under the direct supervision of a journeyman electrician.
Requisite: None.
Type: C

IEW 141 IBEW Electrician Lineman I 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include job site safety, electrician's tools, material and equipment rigging and handling. OSHA standards, electrical hazard awareness, flagging, specific climbing and digging equipment, protective line devices, personal protective equipment, and the introduction to electron and electrical theory.
Requisite: None.
Type: C

IEW 142 IBEW Electrician Lineman II 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include emphasis on job site safety, Lock-out/Tag-out OSHA standards, electrical hazard awareness, Ohm's Law, electrical theory and calculations, guy installations, line conductions, insulators, excavating and shoring, planning and designing for underground systems.
Requisite: None.
Type: C

IEW 145 IBEW Elec Lineman Internship I 0-20-4
This course is designed to complement classroom instruction for the construction electrical specialist program. The on-the-job component will reinforce both knowledge and skills of the apprentice by hands-on experience relating to topics such as the wiring of electrical service to residential, commercial, industrial and/or specialized electrical systems. All of the on-the-job work-related activities will be performed under the direct supervision of a journeyman electrician.
Requisite: None.
Type: C

IEW 151 IBEW Electrician Installer/Tech I 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include safety, tools and fastening devices, rigging, cable installation, bonding and grounding according to the National Electrical Code, fiber-optics, and blueprint reading.
Requisite: None.
Type: C

IEW 152 IBEW Electrician Installer/Tech II 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include history of labor and the apprenticeship program, the National Electrical Code, metric conversions, basic algebra, DC Theory, series and parallel circuits.
Requisite: None.
Type: C

IEW 153 IBEW Electrician Installer/Tech III 3.5-1-4
This course is a continuation of the IBEW Apprenticeship Program. The topics to be covered include direct current combination circuits, alternating current circuits, telephone systems, security and alarm systems and the National Electrical Code.
Requisite: None.
Type: C

IEW 154 IBEW Electrician Installer/Tech IV 3.5-1-4
This course is a continuation of the IBEW Apprenticeship Program. The topics to be covered include the use of TIA/EIA Standards, Life Safety Systems, Network cabling, LAN Systems, interface of telephone and sound systems, and the National Electrical Code.
Requisite: None.
Type: C

IEW 157 IBEW Elec Installer/Tech Internship I 0-20-4
This course is designed to complement classroom instruction for the Construction Electrical Specialist program. The on-the-job component will consist of work relating to telecommunications installation; which includes telephone, fire alarm, security, fiber-optics, CCTV home automation, nurses call systems, the National Electrical Code and testing of various systems. All of the on-the-job work-related activities will be performed under the direct supervision of a qualified Telecommunications Installer/Technician.
Requisite: None.
Type: C

IEW 211 IBEW Electrician Inside Wireman V 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include AC/DC review, semiconductors, transistors, SCRs, amplifiers, and electronic applications.
Requisite: None.
Type: C

IEW 212 IBEW Electrician Inside Wireman VI 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include the National Electrical Code Article 250, electrical theory to grounding, grounded conductor, service grounding, earth testing, WYE and DELTA three-phase transformers, and load calculations.
Requisite: None.
Type: C

IEW 213 IBEW Electrician Inside Wireman VII 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include lightning protection, fiber optics, motor constructions, motor installations, motor protection, motor controls, and schematic diagrams.
Requisite: None.
Type: C

IEW 214 IBEW Electrician Inside Wireman VIII 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include digital logic, ladder logic, logic circuits and controls, AC motor speed controls, programmable logic controllers basics, operation, and installation; designing and programming PLC; air conditioning and refrigeration systems, cable tray, motor control circuits and protection, and hazardous locations.
Requisite: None.
Type: C

IEW 215 IBEW Electrician Inside Wireman IX 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include fire alarm systems-operation, installation, maintenance, troubleshooting; fundamentals of instrumentation and equipment used for calibration; telephone wiring and introduction to TIA/EIA standards and codes; air conditioning systems and basic security systems.
Requisite: None.
Type: C

IEW 216 IBEW Electrician Inside Wireman X 3.5-1-4
This course is part of the IBEW Apprenticeship Program. The topics to be covered include solar power systems, high voltage maintenance and testing, power problems, power quality, power harmonics, automation networks, National Electrical Codes for special conditions, and NEC calculations.
Requisite: None.
Type: C

IEW 218 IBEW Elec Wireman Internship II 0-20-4
This course is designed to complement classroom instruction for the Construction Electrical Specialist program. The on-the-job component will reinforce both knowledge and skills of the apprentice by hands-on experience relating to topics such as the wiring of residential, commercial, industrial and/or specialized electrical systems. All of the on-the-job work-related activities will be performed under the direct supervision of a journeyman electrician.
Requisite: Department consent
Type: C

IEW 233 IBEW Electrician Residential III 3.5-1-4
This course is a continuation of the IBEW Apprenticeship Program. The topics to be covered include blueprint reading, codeology as it relates to the National Electrical Code, Single and three-phase transformers, and comparison of alternating current and direct current theory along with emphasizing the importance of job site safety.
Requisite: None.
Type: C

IEW 234 IBEW Electrician Residential IV 3.5-1-4
This course is a continuation of the IBEW Apprenticeship Program. The topics to be covered include the National Electrical Code for proper sizing and installation of services, feeders, branch circuits, specialty equipment, conduit bending, signaling circuits, fire alarm and security circuits, along with emphasizing the importance of job site safety.
Requisite: None.
Type: C

IEW 235 IBEW Electrician Residential V 3.5-1-4
This course is a continuation of the IBEW Apprenticeship Program. The topics to be covered include RL, RC, and RLC circuits, National Electrical Code calculations, motor control, telephone and sound systems.
Requisite: None.
Type: C

IEW 236 IBEW Electrician Residential VI 3.5-1-4
This course is a continuation of the IBEW Apprenticeship Program. The topics to be covered include National Electrical Code calculations for pool and fountains, home automation structured for the future, fire & security systems, UPS systems, solar power and generation, fiber optics and local area networks.
Requisite: None.
Type: C

IEW 238 IBEW Elec Residential Internship II 0-20-4
This course is designed to complement classroom instruction for the Construction Electrical Specialist program. The on-the-job component will consist of work relating to the wiring of residential installations and specialized electrical systems for residential applications. All of the on-the-job work-related activities will be performed under the direct supervision of a journeyman electrician.
Requisite: None.
Type: C

IEW 241 IBEW Electrician Lineman III 3.5-1-4
This course is a continuation of the IBEW Apprenticeship Program. The topics to be covered include emphasis on job site safety, hazardous communication, metering devices, distribution circuits, the principles of three phase alternating current, transformers, blueprint fundamentals, symbols, specifications, electrical drawings and diagrams, introduction to using a transit, reading maps, plans and profiles, and construction standards/NESC.
Requisite: None.
Type: C

IEW 242 IBEW Electrician Lineman IV 3.5-1-4
This course is a continuation of the IBEW Apprenticeship Program. The topics to be covered include emphasis on job-site safety, cable types, sizes, splicing and terminations, fault indicators, explosives, mobile cranes, lifting and digging operations, hot line tools, tower footings and erections, joining high-line conductors, street lighting and traffic signals, over voltage protection, phasing and typing-in circuits and overload capabilities of electrical equipment.
Requisite: None.
Type: C

IEW 243 IBEW Electrician Lineman V 3.5-1-4
This course is a continuation of the IBEW Apprenticeship Program. The topics to be covered include emphasis on job site safety, testing ground resistance, maximeters, a review of alternating current, inductance, capacitors, fiber optics and codes and standards, rubber protective devices, live line maintenance, extra high voltage primary metering and fusing, fuse principles, substation

equipment, construction and safety procedures, oil circuit breakers, air break switches, watt hours and watt-hour meters.
Requisite: None.
Type: C

IEW 244 IBEW Electrician Lineman VI 3.5-1-4
This course is a continuation of the IBEW Apprenticeship Program. The topics to be covered include emphasis on job site safety, fault currents, testing for line faults, voltage regulation, step regulators and tap changing transformers, capacitors and capacitor switching, lightning protection, wind energy, photovoltaics, labor management, foremanship and a comprehensive review on transformers, insulator testing, live line maintenance, substation control equipment, power factor, power harmonics, and blueprints.
Requisite: None.
Type: C

IEW 245 IBEW Elec Lineman Internship II 0-20-4
This course is designed to complement classroom instruction for the Construction Electrical Specialist Program. The on-the-job component will reinforce both knowledge and skills of the apprentice by hands-on experience relating to topics such as the wiring of electrical service to residential, commercial, industrial and/or specialized electrical systems. All of the on-the-job work-related activities will be performed under the direct supervision of a journeyman electrician.
Requisite: None.
Type: C

IEW 251 IBEW Electrician Installer/Tech V 3.5-1-4
This course is a continuation of the IBEW Apprenticeship Program. The topics to be covered include inductive and capacitive reactance, diodes, power supplies, transistors, amplifiers, oscillators, CCTV, and security systems.
Requisite: None.
Type: C

IEW 252 IBEW Electrician Installer/Tech VI 3.5-1-4
This course is a continuation of the IBEW Apprenticeship Program. The topics to be covered include CCTV surveillance systems, security ID systems, home automation theater, audio & video, nurse call systems, high performance testing of cabling systems, along with grounding and bonding according to the National Electrical Code.
Requisite: None.
Type: C

IEW 257 IBEW Elec Installer/Tech Internship II 0-20-4
This course is designed to complement classroom instruction for the Construction Electrical Specialist program. The on-the-job component will consist of work relating to telecommunications installation; which includes telephone, fire alarm, security, fiber-optics, CCTV home automation, nurses call systems, the National Electrical Code and testing of various systems. All of the on-the-job work-related activities will be performed under the direct supervision of a qualified Telecommunications Installer/Technician.
Requisite: None.
Type: C

IEW 299 Special Topics in Construction Electrical Specialist Variable up to (4)-(8)-(4)
This course is designed to familiarize students with special topics or problems in the construction electrical specialists' field, to provide them with knowledge and ability to deal effectively with those topics or problems in relation to their specific requirements.
Requisite: None.
Type: C

Industrial Electricity

EET 100 Electrical Orientation 0.5-0-0.5
This course prepares students to begin a successful college career in the Industrial Electricity/Electronics program. Students will learn and understand all safety aspects for the Industrial Electricity Program. The course also teaches the students all the information and technology that is needed for the entire EET program that includes work ethic expectation, clothing requirements, Electrical Tools and Measuring Equipment, and computer uses including E-Storm and Brightspace. An understanding of the EET program requirements and expectations will be presented in this course.
Requisite: None.
Type: C

EET 101 Intro to Electricity & Electronics 1.5-3-3
This course is designed as the beginning course for those entering the electrical and/or electronics career field. The course's primary focuses are to (1) inform students about the variety of specialty areas, categories of work relevant to the field, and educational requirements and opportunities that can lead to successful employment; (2) introduce students to the fundamental principles of electricity, basic DC and AC electrical circuits, electrical/electronic components, electrical/electronics diagrams; and (3) provide the opportunity for students to become skilled in using common test equipment and tools used to construct, install, measure, and repair electrical wiring and cabling, and electrical/electronic systems and equipment. Students will learn to perform complete electrical analysis of complex DC and AC circuits consisting of resistors, capacitors, inductors and transformers connected in various series, parallel, and seriels-parallel configurations. Course will cover applications of these components in common electrical circuits and will begin teaching students basic troubleshooting skills.
Requisite: EET 100.
Type: C

EET 102 Principles of Magnetism and AC 1.5-3-3
This course is designed to familiarize students with computer applications and software routinely used in the electrical and electronics career field. Course covers basic principles of computer operation, use of productivity software common to the workplace, and technical applications frequently used by electrical or electronic technicians to design, draw, construct, and simulate/test electrical circuits and systems.
Requisite: EET 101; concurrent enrollment in or completion of GT 104.
Type: C

EET 111 Electrical Circuits 1.5-3-3
This course continues the study of electrical and electronic circuits by going more in-depth in electrical circuit analysis. Students will learn to perform complete electrical analysis of complex DC and AC circuits consisting of resistors, capacitors, and inductors connected to various series, parallel, and series-parallel configurations. Course will cover applications of these components of common electrical circuits and will begin teaching students basic circuit troubleshooting skills.
Requisite: EET 101,GT 104.
Type: C

EET 121 Electronic Devices and Circuits 1.5-3-3
This third course in electrical and electronic fundamentals introduces the student to theory, design, and application of a wide variety of semiconductor devices and circuits. Lab experiments continue to build the students' competence in the use of test equipment and tools in constructing and analyzing the performance of electronic circuits and devices. Computer simulation will also begin to be used to test more complex circuits.
Requisite: EET 101.
Type: C

EET 131 Electrical Wiring Practices 1.5-3-3
Course is designed to provide the student with the basic knowledge and skills necessary to install, repair, and estimate costs for wiring of residential, commercial, industrial and/or specialized electrical systems. Students will learn the principles of and get hands-on experience on how to safely and properly wire electrical circuits and devices according to the National Electrical Code.
Requisite: EET 101.
Type: C

EET 200 Digital Electronic Circuits 1.5-3-3
Knowledge of electronics will be expanded in this course to include the principles and operation of digital devices and circuits used in computers and automated industrial/commercial equipment. Breadboarding of logic elements into functional circuits in laboratory projects/computer simulation will validate and reinforce classroom learning.
Requisite: EET 101.
Type: C

EET 201 Wind and Solar Power Installation and Maintenance 1.5-3-3
This course is designed to introduce students to the basic concepts and equipment involved in installing and maintaining photovoltaic electrical systems and wind turbine electrical systems. Students will learn how to connect various types of wind and solar electrical systems such as stand-alone or interconnected electrical systems. Content includes advantages and disadvantages, component identification and operation, and hands-on operation, analysis and evaluation of working photovoltaic and wind power systems
Requisite: None.
Type: C

EET 205 Digital Electronic Circuits II 1.5-3-3
This course continues the study of digital concepts. Introduces digital arithmetic and associated circuits, expands knowledge of counters and shift registers, explores integrated circuits families, decoders, multiplexers, interfacing, and memory devices. Laboratory exercises and computer simulation emphasis concepts learned in the classroom.
Requisite: EET 200.
Type: C

EET 210 Introduction to Microprocessors 1.5-3-3
This course is designed as an introduction to microprocessor hardware and software fundamentals. It will emphasize the use of the microprocessor in industrial/commercial control. Laboratory work will include assembly language programming of a microprocessor trainer.
Requisite: EET 200.
Type: C

EET 225 Microprocessor Interfacing 1.5-3-3
The principles of interfacing the microprocessor to analog and digital circuitry will be covered in this course. Input/output, serial/parallel data transfer and circuit isolation and loading principles are included. Laboratory exercises will require construction of external circuits to be interfaced with an operating microprocessor.
Requisite: EET 210.
Type: C

EET 231 Introduction to Robotics 1.5-3-3
This course provides a comprehensive approach to learning the technical aspects of robotics. The course covers robotic principles, power supplies and movement systems, sensing and end-of-arm tooling, and control systems. The course also covers typical programming techniques for basic robots as well as larger industrial robots.
Requisite: EET 101.
Type: C

EET 232 Instrumentation Fundamentals 1.5-3-3
This course will provide the fundamental principles of automatic process control. It will include primary measurement, transmission, and control. Laboratory work will consist of demonstrations, the use of test equipment for calibration and hands-on exercises. This course will assist the student in becoming familiar with primary elements, transducers, recorders, indicators and controllers.
Requisite: EET 101.
Type: C

EET 234 Instrumentation Systems 1.5-3-3
This course is designed to reinforce and build on topics learned in instrumentation fundamentals. The student will gain comprehensive knowledge of measurement, transmission, control and documentation. This course will have special emphasis on hardware, calibration, and troubleshooting.
Requisite: EET 232.
Type: C

EET 235 Programmable Logic Controllers 2-2-3
This course offers electricians, maintenance mechanics, or electronic technicians a first course in programmable logic controllers. It focuses on the underlying principles of how PLCs work and provides practical information about installing, programming, and maintaining a PLC as a separate stand-alone automated control component. No previous knowledge of PLC systems or programming is necessary. This course presents PLCs in a generic sense, and the content is broad enough to allow the information to be applied to a wide range of PLC models. All topics are covered in small segments, developing a firm foundation for each concept and operation before advancing to the next. Each topic covered contains a variety of generic programming assignments that are compatible with most types of PLCs.
Requisite: EET 200.
Type: C

EET 238 Special Purpose Electrical Devices and Wiring 1.5-3-3
This course is designed for students desiring to enter the residential or commercial electrician field. It provides the student with an overview of knowledge and skills regarding special purpose electrical devices and circuits that electricians may encounter on the job. Covers basic instrumentation concepts such as flow, pressure, temperature sensors and controls; basic principles and electrical aspects of heating, ventilation, and air conditioning; and principles of other wiring and cabling commonly encountered such as computer network cabling, coaxial cable systems, audio/video, telephone, fiber optics, alarm system and lighting systems; and an introduction to programmable logic controllers
Requisite: EET 101.
Type: C

EET 239 Advanced PLCs 1.5-3-3
This course will expand students' knowledge of programmable logic controllers from stand-alone use to being an integral part in a larger automated manufacturing system. Students will learn how to connect and program Contrologix 5000 PLCs to monitor and control various components in a system and then learn how to network multiple PLCs into an integrated system. Emphasis will be on using analog devices. Course will continue with the introduction of using PanelView and other HMI devices and then work with the PLC and HMI software packages to build a complete working machine control system.
Requisite: EET 235.
Type: C

EET 240 Motors and Drives 1.5-3-3
Presented in this course will be construction features, principles of operation and characteristics of DC and AC motors and variable-speed drives. The testing and troubleshooting of motors will be covered along with connecting and programming variable-speed drives. Lab work will include demonstrations and hands-on work with various motors and drives including basic test equipment.
Requisite: EET 101.
Type: C

EET 241 Electrical Power, Motors & Controls 1.5-3-3
An additional course for students desiring to enter the residential or commercial electrician field. This course provides an overview of the concepts, operation and application of a variety of components, control devices and electrical systems frequently encountered by electricians. Course includes theoretical and practical application of electrical power systems, single/three phase power circuits, transformers, motors and generators, and motor controls.
Requisite: EET 101.
Type: C

EET 242 Electrical Control Systems I 1.5-3-3
The intent of this course is to introduce the student to electrical drawings, which are the electrician's primary means of communication. The rules for working with line diagrams will be covered as well as the principles of operation and application of the components used to make up electrical control circuits. The classroom study of the text and workbook will be supplemented by lab projects whenever practical.
Requisite: EET 101.
Type: C

EET 243 NEC for Industrial/Commercial 1.5-3-3
Advanced studies of the terms and concepts that are required for proficiency in the interpretation of electrical codes and regulations. Based on the National Electrical Code and a review of practical electrical field knowledge and industrial/commercial qualifying exams. This course prepares the student

for future career advancements that involve testing by various regulatory agencies. Of particular interest to electricians, contractors, inspectors, and pre-architecture/engineering students.
Requisite: EET 101.
Type: C

EET 244 Electrical Control Systems II 1.5-3-3
This course is intended to supplement and expand the knowledge required in control systems. More complex circuitry will be presented along with applications to specific equipment requirements. Concepts of power distribution, principles of operation and application of more control devices and troubleshooting concepts will be covered.
Requisite: EET 240, EET 242.
Type: C

EET 246 Power Generation/Distribution 1.5-3-3
This course will cover the generation, transmission and distribution of electric power. The components and methods used to accomplish this will be included along with the safety procedures that are necessary in handling high voltage electricity.
Requisite: EET 244.
Type: C

EET 247 DC Crane Controls 1.5-3-3
This course is designed for persons to become knowledgeable in the principles of electrical overhead traveling cranes. Students will learn to read and understand various electrical diagrams and be able to apply safe working procedures related to the maintenance of several of the major types of equipment operating time control equipment. Troubleshooting and corrections of most electrical problems found in DC crane controls and periodic preventive maintenance inspections will be covered.
Requisite: EET 240.
Type: C

EET 250 Microcomputer Maintenance-Beginning 1.5-3-3
This is the first of a three-course sequence for the Microcomputer Technology degree. This course covers: how to disassemble and reassemble a desktop and laptop computer, computer motherboards, main memory, power supplies, how to troubleshoot computer problems, hard drives and storage devices, input and output devices, video subsystems, and networking fundamentals.
Requisite: EET 200 and competency in using a computer. No backgroud knowledge of electronics or networking is assumed..
Type: C

EET 252 Microcomputer Maintenance-Intermediate 1.5-3-3
This is the second of a three-course sequence for the Microcomputer Technology degree. This course covers: network infrastructure and cloud computing, supporting mobile devices, supporting printers, security strategies, mobile device security, network security and troubleshooting, and Linux and scripting.
Requisite: EET 250 and competency in using a computer. No background knowledge of electronics or networking is assumed. .
Type: C

EET 255 Microcomputer Maintenance-Advanced 1.5-3-3
This is the third of a three-course sequence for the Microcomputer Technology degree. This course covers: the complex world of IT professionals, installing windows, maintaining windows, troubleshooting windows after startup, troubleshooting windows startup, securing and sharing windows resources, and supporting macOS.
Requisite: EET 252 and competency in using a computer. No background knowledge of electronics or networking is assumed..
Type: C

EET 256 Preparation for A+ Certification 1.5-3-3
This course will prepare you to support users and their resources on networks, desktops, laptops, mobile devices, virtual machines, and in the cloud. This course covers the most current hardware and software technologies. It also provides through preparation for the content on the new Comp TIQ A+ Core1 (220-1101) and Core 2 (EET-1102) Certification Exams.
NOTE: Competency in using a compute. No background knowledge of electronics or networking is assumed.
Requisite: NETW 101 or CISC 161 or EET 255.
Type: C

EET 260 Communication Electronics I 1.5-3-3
First in a three-course sequence for communication electronics degree. An introduction to digital and data transmission techniques. Terminal and network protocols and limitations are explored.
Requisite: EET 101.
Type: C

EET 269 Electrical/Electronics Technology Capstone 1.5-3-3
This course is designed as a capstone class for Electrical and Electronics Technology Associate in Applied Science students who are preparing to graduate and enter the workforce. Course will summarize all electrical and electronics courses students took to fulfill their degree requirements. Additionally course will cover information students need to prepare for their job search such as resume writing, interviewing skills, preparation for employment testing, customer service skills, and other information students need for a successful career in the electrical and electronics field.
Requisite: None.
Type: C

EET 290 Supervised Internship I Variable up to 0-(30)-(6)
Allows students to earn academic credit for supervised on-the-job experience. Eighty hours of work per semester are required for each semester credit.
Requisite: Department consent
Type: C

EET 299 Special Topics in Electricity/Electronics Variable up to (4)-(8)-(4)
This course will cover topics or problems in the electrical and electronics field and provide students with the knowledge and ability to deal with those topics or problems in relation to their special requirements.
Requisite: None.
Type: C

Industrial Mechanics

IML 101 O.S.H.A. Awareness 0.5-0-0.5
This course familiarizes the student with the industries' regulatory agencies (e.g., Occupational Safety and Health Administration, Environmental Protection Agency, and Department of Transportation).
Requisite: None.
Type: C

IML 105 Industrial Math II 3.5-1-4
This course is divided into three parts: (1) deals with the fundamentals of applied algebra which includes sections on symbols, equations, ratios and proportion, exponents, radicals, and formulas; (2) deals with fundamentals of applied geometry, geometric lines and shapes common in geometry, geometric lines and shapes common in geometric construction; (3) deals with fundamentals of trigonometry right triangles, acute triangles, and oblique triangles, by use of specialized workbooks. Students are exposed to craft related mathematics in their field.
Requisite: Department consent
Type: C

IML 106 Industrial Piping Fundamentals 3.5-1-4
This course is designed to introduce the non-pipefitter with an overview of the more important areas of study for industrial pipefitting. The course is designed to introduce mechanics with a practical knowledge of those skills required to function in industry as a pipefitter.
Requisite: None.
Type: C

IML 119 Mechanical Systems 1-4-3
Designed to help the mechanic recognize types of mechanical power transmission devices and applications, the course includes such practical aspects as troubleshooting, lubrication, parts replacement and alignment procedures. In addition, the importance and practices of precision measurement are covered.
Requisite: None.
Type: C

IML 120 Mechanical Blueprint Reading I 0.5-3-2
Fundamental training in blueprint interpretation with special emphasis on

visualization and interpretation of material presented in this communications medium. Upon completion, the student should be able to relate dimensions to a pictorial representation correctly and accurately, and read and understand drawing convention, symbols, and notations.
Requisite: None.
Type: C

IML 125 Industrial Maintenance Welding 1-4-3
This course is designed to introduce the student to the fundamentals of typical arc welding processes commonly found in the Industrial Maintenance field. The course introduces the Student to the OAW (oxyacetylene welding), SMAW (stick welding), GTAW (tig), GMAW (mig), and PAC (plasma arc cutting). Also included is the acetylene cutting of mild steel, along with the care and use of welding tools and equipment. Materials covered in this course will include welding machines, equipment, and welding supplies.
Requisite: None.
Type: C

IML 133 Rigging (Industrial) 1.5-1-2
Units on lifting practices, wire and fiber rope, size and weight estimation, and material handling devices are presented to prepare the participant to meet the dangerous and demanding conditions relevant to the loading, unloading, storing and assembly or erection of equipment and structural members.
Requisite: None.
Type: C

IML 139 Industrial Bearings 3.5-1-4
This course is designed to introduce the many types of bearings used by modern industries. The material will include types of bearings, types of applications for each, lubrication practices, bearing codes, and maintenance practices used by modern industry.
Requisite: None.
Type: C

IML 145 USS MOD 13 Alignment 1.5-1-2
This course is designed to provide mechanical maintenance personnel information and exercises pertaining to the various types of alignment systems. The course will include terminology, alignment procedures, preventative maintenance, safety and troubleshooting.
Requisite: None.
Type: C

IML 149 Industrial Pumps & Compressors 3.5-1-4
This course is designed to introduce the many types of industrial pumps and compressors used by modern industries. The material will include the types of pumps and compressors, types of application, parts identification, lubrication, and safety along with related auxiliary equipment.
Requisite: None.
Type: C

IML 150 Stationary Engineering I 4-0-4
This course is designed to introduce students to the general concepts of low and high pressure boilers, including pressure, stress and safety factors along with explanation and purpose of all the pertinent equipment used.
Requisite: None.
Type: C

IML 151 Stationary Engineering II 4-0-4
This course is designed to expand students' knowledge of the detailed concepts of low and high pressure boilers, including pressure, stress and safety factors along with a detailed explanation and purpose of all equipment used with emphasis on pumps.
Requisite: None.
Type: C

IML 189 Fork Lift Truck Safety 0.5-0-0.5
This course will provide the student with safety training in the operation of a fork lift truck and also provide knowledge of the OSHA regulations as required by CFR 1910.178 and CFR 1910.179.
Requisite: None.
Type: C

IML 200 Confined Space Entry 1-0-1
This course covers a basic understanding of the regulations governing the entry into confined spaces under the Occupational Safety and Health Administration. Students will be trained in entry, monitoring, and rescue of a confined space.
Requisite: None.
Type: C

IML 203 24 Hour HAZWOPER 0.5-1-1
This course provides training in the clean-up resulting from a hazardous spill. The course will consist of eight hours of lecture with a 16-hour lab simulating clean-up and disposal of a spill in Class A suites.
Requisite: None.
Type: C

IML 205 O.S.H.A. 30 Hour Outreach 2-0-2
This course will provide the student with an OSHA 30-hour certification card which covers the entire spectrum of OSHA compliance areas such as Lockout/Tagout, OSHA awareness, Personal Protective Equipment, and fit testing, medical surveillance, fire protection, HAZCOM, and working hazards.
Requisite: None.
Type: C

IML 250 Stationary Engineering III 4-0-4
This course is designed to expand students' knowledge of the detailed concepts of steam engines, turbines, air-compressors, related theory and application of electricity.
Requisite: None.
Type: C

IML 251 Stationary Engineering IV 4-0-4
This course is designed to expand students' knowledge of the detailed concepts and applications of electricity and refrigeration principles.
Requisite: None.
Type: C

IML 299 Problems in Millwright Variable up to (4)-(8)-(4)
This course is designed to familiarize students with special topics or problems in the industrial millwright field, and to provide them with the knowledge and ability to deal effectively with those topics or problems in relation to their specific requirements.
Requisite: Department consent
Type: C

Industrial Pipefitting

IDP 116 Industrial Pipefitter A 1-4-3
This course is designed to give the pipefitter apprentice knowledge and skill in the use of rigging, ladders, scaffolds, safety, traps, pipe layout, alignment and template making.
Requisite: None.
Type: C

IDP 126 Industrial Pipefitter B 3.5-1-4
This course is designed to give the second-semester apprentice knowledge and skills in the use of metrics, steam piping, heat exchangers, pipe supports, filters, pipe insulation, lubrication and pipe bending.
Requisite: IDP 116.
Type: C

IDP 276 Industrial Hydraulics I 1-4-3
This course is designed to give students an understanding of the fundamental principles of hydraulic circuitry. This course will also teach students correct shop procedures and develop mechanical skills required for proper installation and maintenance of components.
Requisite: None.
Type: C

IDP 299 Problems in Pipefitting Variable up to (4)-(8)-(4)
This course will familiarize students with special topics or problems in the industrial pipefitter field, and to provide them with the knowledge and ability to deal effectively with those topics or problems in relation to their specific requirements.
Requisite: None.
Type: C

Labor

LABR 120 Laborer Craft Orientation 2-1-2.5
This course will introduce the student to the construction industry and acquaint the student with the required personal skills necessary for entry level into the major construction industries. This course will also include four-hour highway workzone flagger training, Illinois flagging certification, basic construction rigging and knot tying, 10-hour OSHA certification, basic math, first aid/CPR certification, back injury prevention, hazard communication training, drug and alcohol awareness, and sun sense training.
Requisite: None.
Type: C

LABR 121 Laborer - Mason Tending 1.5-1-2
This course will introduce the student to the practices and procedures of mason tending and the respective OSHA regulations. The course will include rough terrain forklift operation training, frame scaffolding, Morgen scaffolding, non-stop scaffolding, mason king scaffolding, and masonry saw operator training.
Requisite: LABR 120.
Type: C

LABR 122 Concrete Practices & Procedures 1.5-1-2
This course will introduce the student to concrete practices and procedures and Bobcat operator training. The course will include information on concrete components, materials; mix proportions, the hardening process, concrete finishing techniques, E-Z pavement breaker, concrete saws and vibrators.
Requisite: None.
Type: C

LABR 123 Asphalt Technology & Construction 1.5-1-2
This course will introduce the student to asphalt technology and construction. The course will include information on the model DM-4000 Paver; Eager Beaver Paver; Manual Tape Applicator; Carbide Asphalt Grinder; the asphalt roller and paint striping process.
Requisite: None.
Type: C

LABR 124 Lead Base Paint Abatement 1.5-1-2
This course will cover important information and aspects that the laborer must know regarding lead-base paint abatement to work safely, effectively, and efficiently on the job. The course will provide information on both technical and common sense details of what may be encountered every day while working on the job site and relevant regulations and guidelines for working with lead in construction and target housing. This course will also introduce the student to oxyacetylene equipment.
Requisite: None.
Type: C

LABR 125 Principles of Pipe Laying 1.5-1-2
This course will introduce the student to the principles of pipe laying, gravity flow piping systems, batterboards, sewer laser and utility line and grade, and the metric uses in pipe laying. The course will also include trenching and excavation safety pertinent to pipe laying.
Requisite: None.
Type: C

LABR 126 Construction Landscaping Maintenance 1.5-1-2
This course will introduce the student to the principles of landscaping maintenance relating to the construction trades. The course will also include information on lawn and ground covers, fertilizing, soil testing, irrigation, and the elements of pruning.
Requisite: None.
Type: C

LABR 127 Basic Construction Surveying 1.5-1-2
This course will introduce the student to the fundamentals of construction surveying. The course will cover terms and definitions, basic construction drawings, instruments, calculations, lines, grades, and hand signals common to surveying in the construction trades.
Requisite: None.
Type: C

LABR 128 Bridge Constr., Renov. & Demolition 1.5-1-2
This course will introduce the student to the fundamentals of bridge construction, renovation, and demolition. The course will include safety regulations, rigging, equipment and materials, and skills required for the laborer working in this setting.
Requisite: None.
Type: C

LABR 129 Laborers-AGC 80 Hr Hazardous Waste 4-1-4.5
This course will improve the student's ability to identify hazards in hazardous waste work, provide specific information relating to hazardous chemicals, and explain a worker's responsibility for following all safety and health rules required for the laborer working in a potentially hazardous setting.
Requisite: None.
Type: C

LABR 130 Labr Constr Bp Reading Intro 1.5-1-2
This course will orient the student to construction blueprint reading and specifications. This course will cover various symbols and notations necessary to properly read and interpret a variety of working drawings used in the construction industry.
Requisite: None.
Type: C

LABR 131 Laborers Asbestos Abatement 1.5-1-2
This course is designed to introduce the student to the important aspects, techniques and safety procedures that a Construction Craft Laborer must know regarding asbestos abatement. Also included in this course is the history of asbestos, asbestos components, personal protective equipment, and health information in reference to the hazardous substance of asbestos. Upon successful completion, students will have met the requirements and have the option to apply for licensure through the State of Illinois in asbestos abatement.
Requisite: None.
Type: C

LABR 299 Special Topics in Construction Laborers Variable up to (4)-(8)-(4)
This course is designed to familiarize students with special topics or problems in the construction/laborers' field, to provide them with knowledge and ability to deal effectively with those topics or problems in relation to their specific requirements.
Requisite: None.
Type: C

Legal Studies

PARL 120 Introduction to Law 3-0-3
This course introduces students to sources of United States law, civil and criminal processes, legal terminology, and a history of common law. Students will examine the role of the paralegal in the legal system and discuss the ethics, regulations, and professional responsibilities involved in their roles as paralegals. Students will learn to read and brief legal cases. They will also be introduced to legal analysis and basic legal concepts in substantive areas of law.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

PARL 200 Dispute Resolution Skills 3-0-3
This course will provide students with a working knowledge of the basic theories underlying a variety of methods of alternative dispute resolution including negotiation, mediation and arbitration. Students will learn the important distinguishing characteristics of these "alternative" approaches to resolving disputes, along with how to address the ethical and legal issues that may arise in pursuit of these remedies. In addition to covering current theory on these topics, much of the course will be dedicated to hypothetical scenarios and role playing. Students will practice fundamental dispute resolution skills such as active listening, reframing, summarizing, problem-solving, and creating a safe, non-threatening environment.
Semester(s) Offered: Spring
Requisite: None.
Type: C

PARL 220 Legal Research and Writing I 3-0-3
Students will examine the federal and state court systems and be introduced to case and statutory analysis. Students will learn to use a law library and the resources available there. They will examine the role of paralegals in the litigation process and will also learn to analyze and synthesize written opinions. Students will be required to complete several writing projects.
Semester(s) Offered: Fall, Spring
Requisite: PARL 120 with a grade of C or better, ENG 101 with a grade of C or better.
Type: C

PARL 225 Legal Research and Writing II 3-0-3
Students will continue to develop their skills and working knowledge of research materials, tools, and strategies. There will be instruction on computer aided research. They will use the results of their research to complete several additional writing projects, including memoranda of law, correspondence, and briefs.
Semester(s) Offered: Fall, Spring
Requisite: PARL 220 with a grade of C or better.
Type: C

PARL 230 Civil Procedure 3-0-3
Students will examine the lawyers' and paralegals' roles in handling civil cases. The strategy and mechanics of civil procedure will be explored in depth with special emphasis on Illinois law and federal procedure. Students may be required to prepare various writing projects.
Semester(s) Offered: Fall, Spring
Requisite: PARL 120.
Type: C

PARL 235 E-Discovery/E-Investigation 2-0-2
This course will provide students with an overview and understanding of e-discovery issues, terms and technologies. Students will also gain an understanding of the basics of e-investigation by using social networking sites and internet search engines to discover admissible evidence about parties and witnesses in lawsuits.
Semester(s) Offered: Fall, Spring, Summer
Requisite: PARL 230.
Type: C

PARL 240 Torts 3-0-3
Students will gain an understanding of the basics of tort law and the causes of action for intentional torts, negligence and strict liability. Special topics covered will also be products liability, professional malpractice, workers compensation and other current tort topics. Students will be required to complete several writing assignments including drafting a complaint that contains all of the elements of a tort in a cause of action. Emphasis will be placed on the application of theory to fact patterns so that students can identify a tort cause of action.
Semester(s) Offered: Fall, Spring, Summer
Requisite: PARL 120.
Type: C

PARL 250 Litigation Support for Paralegals 3-0-3
Students will become acquainted with the litigation process from the client interview to preparation of documents used to institute and respond to lawsuits, discovery procedures, preparation for trial, and the trial itself. Students will learn the basic rules and laws which govern the lawsuit. Rudiments of the appellate process will be introduced to the student. The student will be required to complete several writing projects.
Semester(s) Offered: Fall, Spring
Requisite: PARL 120, PARL 220, PARL 230.
Type: C

PARL 255 Law Office Management 3-0-3
This course covers the theory and practical aspects of law office management, including the functions of management, administrative procedures, basic principles of finance, facilities management, human resource management, and leadership skills.
Semester(s) Offered: Fall, Spring
Requisite: PARL 120.
Type: C

PARL 260 Family Law 3-0-3
Students will review the law as it relates to different aspects of domestic relations such as marriage, divorce and separation, maintenance, child custody and support, surrogacy, parentage, domestic violence, adoption, and prenuptial agreements. Special emphasis will be placed on Illinois law. Students will be required to complete writing projects.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

PARL 265 Wills, Probate, and Estate Planning 3-0-3
Students will study the most common forms of wills and trusts and the fundamental principles of law applicable to each, including the types of property and ownership rights. This course will place emphasis on the administration of estates under the Illinois Probate Act. Students will be required to complete several writing projects.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

PARL 270 Criminal Law 3-0-3
Causes of action of criminal liability on the misdemeanor and felony level will be studied. Some constitutional law issues raised by a criminal practice will also be addressed. Students will study the procedures of the criminal system, from arrest through post-trial motions, sentencing, and appeal. Students will be required to complete several writing projects.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

PARL 274 Law Office Computer Applications 3-0-3
This course covers legal terminology, basic procedures, and document production through hands-on instruction in software programs commonly used in law offices. Students will prepare legal documents found in a variety of legal areas including real estate, corporate, bankruptcy, estate planning, litigation, family law, and other areas of law found in general practice. Students will also be introduced to practical computer applications used in legal organizations.
Semester(s) Offered: Fall, Spring, Summer
Requisite: OAT 180 or instructor permission.
Type: C

PARL 275 Bankruptcy/Creditors' Rights 3-0-3
Students will become familiar with the bankruptcy system and the United States Bankruptcy Code. Students will gain an understanding and working knowledge of the different types of bankruptcies and the specific steps taken to complete the bankruptcy process, including completion of the documents required to conduct these processes. Creditors' rights will also be explored. The student will be required to complete several writing projects.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

PARL 280 Copyright/Trademark/Patent Law 3-0-3
This course will provide students with an overview and understanding of the various intellectual property disciplines, including copyright, trade secret, trademark, and patent law. The course will emphasize both the theoretical and practical application of these areas of law. Students will be required to complete writing projects. Students may receive credit for only one of the following: BUS 280 or PARL 280.
Semester(s) Offered: Fall
Requisite: None.
Type: C

PARL 285 Employment Law 3-0-3
An introduction to employment law, exploring current legislation, court rulings, and state and federal government decisions in the hiring, management and firing of employees. This course provides knowledge of the fundamental concepts of human resource management including practical components and legal implications of the employment relationship. Students will also survey workplace discrimination and other emerging legal issues in human resource management and identify effective management techniques.
Semester(s) Offered: Fall
Requisite: None.
Type: C

PARL 290 Paralegal Field Project 0-15-3
Supervised on-the-job training and experience in public or private offices typically employing paralegals. Students must work at least 225 hours to receive classroom credit for the course. The course provides the necessary articulation between academic theory and the world of work and helps the student make a supervised transition to the career of his/her choice.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Students must have successfully completed at least 18 credit hours in Paralegal classes which include PARL 120, PARL 220, PARL 230 and PARL 240, all of which must be completed with a grade of C or better. Department consent required.. Department consent
Type: C

PARL 299 Special Topics in Paralegal Studies Variable up to (4)-0-(4)
Presents projects and topics in paralegal studies by simulated experiences, observations, discussions, conferences, readings and individual research. Projects and topics will vary to meet individual interest and needs. NOTE: Requisite varies by topic.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

Literature

LIT 113 Introduction to Fiction 3-0-3
A study of the short story, novel and/or novella, with the primary objective of learning to read with greater understanding and pleasure, greater taste and discrimination, with exposure to a variety of literary forms and periods. Through study of the short story and novel form, students will be introduced to various methods of literary criticism, learning the vocabulary of literary criticism. The novels that are studied will be grouped thematically, and demonstrative of the range and techniques of the novel form.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for or concurrent with ENG 101.
Type: T, IAI-H3 901

LIT 117 Literature Written by Women 3-0-3
This course principally uses contemporary American literature by women of minority races, ethnicities, and socio-economic classes as well as European American women. Completion of this course fulfills the Human Relations AA, AFA, AS, AES, or General Education degree requirement.
Semester(s) Offered: Spring, Summer
Requisite: Eligible for or concurrent with ENG 101.
Type: T, IAI-H3 911D

LIT 120 Introduction to Poetry 3-0-3
Through a survey of poems and criticism, Literature 120 will introduce students to poetry as genre, field of interpretation and analysis, rhetorical stance, and historical artifact. Students will read and discuss a variety of world poetry, gain critical and literary vocabularies, learn interpretive schemes, and deepen their appreciation for poetry in many forms, including formal, free, and spoken verse.
Semester(s) Offered: Intermittently
Requisite: Eligible for or concurrent with ENG 101.
Type: T, IAI-H3 903

LIT 125 Drama as Literature 3-0-3
This course provides insight into dramatic literature from different cultures and periods. The historical, cultural and artistic contexts of each work will be explored, as will issues of staging and performance.
Semester(s) Offered: Fall
Requisite: Eligible for or concurrent with ENG 101.
Type: T, IAI-H3 902

LIT 133 Bible as Lit–Hebrew Tradition 3-0-3
A study of selected literature from the Old Testament including narrative, short story, poetry and the essay.
Semester(s) Offered: Intermittently
Requisite: Eligible for or concurrent with ENG 101.
Type: T, IAI-H5 901

LIT 134 Bible as Lit - Christianity 3-0-3
A study of the literature of the New Testament period, which includes both canonical and non-canonical works.
Semester(s) Offered: Intermittently
Requisite: Eligible for or concurrent with ENG 101.
Type: T, IAI-H5 901

LIT 201 World Lit to Enlightenment 3-0-3
A study of Asian, Middle Eastern, Mesoamerican, African, and European (including classical Greek and Roman) literature in translation from the ancient through the Renaissance eras. The course places each author and work in its historical context while delineating specific developments in literature.
Semester(s) Offered: Fall
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T, IAI-H3 906

LIT 202 World Lit from Enlightenment 3-0-3
A study of Asian, Middle Eastern, Latin American, and European literature in translation from the Enlightenment era to the present. The course places each author and work in its historical context while delineating specific developments in literature.
Semester(s) Offered: Fall
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T, IAI-H3 907

LIT 205 Lit of Non-Western Countries 3-0-3
Participants in this course will study the current literature of countries outside the Western intellectual tradition. An effort will be made to (1) determine the self-perception of the peoples of these countries; (2) compare and contrast these perceptions with those of the peoples from the Western tradition; (3) heighten awareness of the influences of geography, economics, politics, religion, and culture in a given society. These efforts will be accomplished through a study of short stories, novels, poems, and films written by the peoples of Africa, Asia, and Latin America. Works will be studied for their social, political, cultural, historical, and moral ideas as well as for their merit as literary compositions. Completion of this course fulfills the Third World culture requirement for graduation at Southwestern.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T, IAI-H3 908N

LIT 213 Early American Literature 3-0-3
This is a survey course which introduces students to a wide range of authors from 1492 to 1865, the colonial period to the Civil War. The course will celebrate the rich diversity of American cultural heritage, including the study of the work of Native Americans, African-Americans, women, and Latino/a writers. Students will begin to appreciate the rich cultural heritage of America, and to see comparisons and contrasts between male and female writers, one ethnic group and another, and one social class and another. The metaphor of American Literature I shall be a "mosaic of American writers."
Semester(s) Offered: Fall
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T, IAI-H3 914

LIT 214 Modern American Literature 3-0-3
This is a survey course which introduces students to major works of American writers of prose and poetry, representative of periods from 1865 to the present. While the course may touch on an author's work in terms of style, language, and literary technique, the course is designed for the student who may never take another literature course again, as well as for potential English majors. LIT 213 is NOT a prerequisite for LIT 214.
Semester(s) Offered: Fall Dual Credit, Spring
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T, IAI-H3 915

LIT 215 Contemporary Multicultural American Literature 3-0-3
This course introduces students to a variety of marginalized writers in the literature of the United States, especially the work of African Americans, Asian Americans, Native Americans, and Latinos/as. Through the study of these writings, students will learn to appreciate both traditional and new forms of literature as minority voices, including the LGBTQ+community, explore the American experience. Students will begin to value the mosaic of a culture where each group retains its individual characteristics while adding to the

richness of the whole. At the same time, students will examine how people from outside the mainstream culture encounter and struggle with that culture and with a society that all too frequently has excluded them. Completion of this course fulfills the Human Relations, AA, AFA, AS, AES, or General Education degree requirement.
Semester(s) Offered: Fall, Spring, Even only Summer
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T, IAI-H3 910D

LIT 216 African American Literature 3-0-3
This course will survey a wide range of African American literature exploring cultural norms, historical and social context, and the intersectionality of gender, race, and class in various genres using both traditional and non-traditional texts. Completion of this course fulfills the Human Relations AA, AFA, AS, AES, or General Education degree requirement.
Semester(s) Offered: Fall, Spring, Odd only Summer
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T, IAI-H3 910D

LIT 219 Comics and Graphic Novels 3-0-3
A literature course designed to introduce students to important works in the medium of comics and graphic novels. The focus will be on full-length works with genuine literary and artistic merit. The course will also give students a vocabulary and methodology for critically analyzing and discussing these works.
Semester(s) Offered: Spring
Requisite: Eligible for ENG 101.
Type: T

LIT 251 Early British Literature 3-0-3
This is a survey of British literature from the Middle Ages through the 18th century. The disparate voices that comprise the literature of the British Isles at the time are examined. LIT 252 is NOT a prerequisite for LIT 251.
Semester(s) Offered: Fall
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T, IAI-H3 912

LIT 252 British & Commonwealth Lit 3-0-3
This is a survey of British literature from the 19th century to the present. This course analyzes multiple genres of Britain's disparate voices, including colonial and post-colonial voices, that comprise British literature during these centuries are emphasized. LIT 251 is NOT a prerequisite for LIT 252.
Semester(s) Offered: Spring
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T, IAI-H3 913

LIT 290 Shakespeare - Comedies & Histories 3-0-3
LIT 290 is a study of Shakespeare's comedies and histories. This study will pursue an understanding of Shakespeare's language, dramatic art, production values and performance, as well as multiple critical perspectives. LIT 291 is NOT a prerequisite for LIT 290.
Semester(s) Offered: Fall
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T, IAI-H3 905

LIT 291 Shakespeare - Tragedies & Romances 3-0-3
LIT 291 is a study of Shakespeare's tragedies and romances. Emphasis is on reading and understanding Shakespeare's language as well as various aspects of his dramatic art. Issues of staging and performance are explored, both for an Elizabethan-Jacobean audience and for a modern audience.
Semester(s) Offered: Spring
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T, IAI-H3 905

LIT 293 Children's Literature 3-0-3
Primarily for the prospective early childhood or elementary teacher, the course emphasizes the selection and presentation of children's literature (fables, fairy tales, nursery rhymes, picture books, and novels, etc.) with a focus on diversity and multiculturalism. Student may not receive credit for both LIT 293 and ED 293. This course is cross-listed with ED 293.
Semester(s) Offered: Fall, Spring
Requisite: Completion of ENG 101 with a grade of "C" or better.
Type: T, IAI-H3 918

LIT 299 Topics in Literature Variable up to (4)-0-(4)
Examination of a selected topic or movement through study and discussion of representative works of literature. No topic/problem can be offered more than twice in three years
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101.
Type: T

Management

MGMT 117 Personal Finance 3-0-3
This course explores the role of the consumer in our economy, problems of financing family and individual needs, including budgeting, banking relationships, borrowing, insurance, risk management, real estate, investing, portfolio management, retirement and personal taxes.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

MGMT 201 Entrepreneur Basics 3-0-3
This course reviews a variety of topics for a potential entrepreneur to consider before starting a business. These topics include an assessment of one's suitability for the entrepreneurial life both personally and financially, evaluating the marketability of your product or service, and protecting your idea.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

MGMT 202 Entrepreneur: First Year 1-0-1
The course addresses the start-up business during the first year of operation beginning with the opening of the business. The key topics include: Employee-management issues, hiring and training employees, financial management, and market planning for year two and beyond.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Concurrent enrollment in or completion of MGMT 201 & MGMT 203.
Type: C

MGMT 203 Business Plan Basics 1-0-1
This course provides an overview of the development of a basic business plan for a start-up operation. Key topics include: competitive analysis, financial projections and start-up costs. Students will develop a business plan as part of the course.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Concurrent enrollment in or completion of MGMT 201.
Type: C

MGMT 213 Human Relations in the Workplace 3-0-3
This course draws from principles in the behavioral sciences to equip students with skills that lead to positive human relations in the workplace. Students will explore individual, demographic, and cultural differences to develop broad perspectives that foster collaborative interpersonal relations. Topics include personality, emotional intelligence, communication, motivation, problem solving, team dynamics, conflict resolution, cross-cultural relations, diversity, ethics, and leadership. The course focuses on applying these topics in today's workplace which consists of diverse social groups.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: C

MGMT 214 Principles of Management 3-0-3
A detailed analysis of management functions including planning, organizing, staffing, directing and controlling. The schools of management are explained. The orderly presentation of fundamental knowledge of management provides the student with the framework for further studies in management and related business fields as well as a background for practical application of management principles in business and other organizations.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: C

MGMT 217 Human Resource Management 3-0-3
This course is concerned with the human resource management functions. This course will emphasize the legal environment surrounding equal employment opportunities, job design and analysis, recruiting, orientation and training, performance appraisal, compensation systems, labor relations, collective bargaining and grievance handling, and health and safety in the workplace.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: C

MGMT 219 Small Business Management 3-0-3
This course focuses on the fundamental business management skills needed to open and operate a small business. Topics include identifying opportunities, business plans, marketing fundamentals, and managing growth. Case studies and current issues are used to illustrate text concepts.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: C

MGMT 270 Business Planning 3-0-3
This course emphasizes the integration of previous coursework to provide a student with knowledge and understanding of strategic management processes, techniques, concepts and skills. The course takes a problem-solving approach to understanding industry dynamics. It emphasizes the connection between the functional areas of the firm and the external environment to develop managerial strategies. Students will demonstrate mastery of course objectives by analyzing a case and by developing a strategic management plan.
Semester(s) Offered: Spring
Requisite: Eligible for ENG 101,BUS 241; Sophomore standing.
Type: C

MGMT 280 Introduction to Logistics 3-0-3
This course provides an overview of logistics concepts such as transportation and distribution, logistics systems, logistics operations, and logistics management and administration. The course focuses on commercial logistics and analysis of activities and decisions associated with planning, implementing, and controlling physical distribution and transportation systems. Emphasis will be placed on physical, human, informational, and organizational system components.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

MGMT 281 Logistics Models & Systems Analysis 3-0-3
This course will present fundamental quantitative modeling tools that address the design and control of operations in the supply chain. Topics covered will include modeling design concepts that are used in transportation shaping, network flow, along with computational and quantitative measurements that facilitate the procurement process.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

MGMT 282 Supply Chain Management 3-0-3
This course covers basic principles of supply chain management and provides techniques used to analyze logistics systems. Areas examined include inventory management, warehousing, distribution, and strategic facility location as it relates to supply chain efficiencies. Asset productivity strategies are studied by investigating both inbound materials management/production processes and outbound physical distribution procedures. Emphasis on strategic coordination of all supply members is reinforced.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

MGMT 283 Global Supply Chain Management 3-0-3
This course examines global supply chain management and how multiple partners function as an integrated system. It analyzes how to coordinate and optimize the creation, distribution, storage and movement of goods and services to global customers. Special emphasis is placed on providing logistical resources such as sourcing, distribution, transportation, warehousing, sales and customer service to facilitate cargo and passenger movement through a supply chain management system in a cost-effective manner.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

MGMT 284 Import/Export Logistics Management 3-0-3
This course covers the conceptual framework for the conduct of international trade, and focuses on importing/exporting as a basic foreign market entry strategy. It provides the student the tools for assessing and analyzing the import/export potential of products and services as well as the screening and selection of foreign target markets. It presents the interplay of dynamic forces influencing the global business environment: economic and socio-cultural, physical and environmental, political and legal, competitive and distributive, and how they impact on formulating export marketing strategies. It comprehensively covers the import/export marketing mix and provides working knowledge of the procedures, documentation, as well as the conduct of business according to generally accepted International trade and banking practices.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

MGMT299 Special Topics In Management Variable up to (4)-0-(4)
This course presents projects and topics in business management by simulated experiences, observations, discussions, reading and individual research. Projects and topics will vary to meet individual interest and needs.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

Marketing

MKT 126 Introduction to Marketing 3-0-3
The course introduces students to basic marketing principles with particular emphasis on environmental factors that affect a business, target market selection, and the four primary elements of the marketing mix: product, price, distribution and promotion.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T

MKT 226 eMarketing 3-0-3
This course provides an overview of the ways marketers use the internet to connect with customers to promote and sell products and services. The course examines email marketing, advertising, search marketing, social media and mobile marketing. The course will address the need to integrate online and offline marketing efforts. Search engine optimization and analytics are introduced as well. Students will be required to register for several social media websites. Note: MKT 126 recommended; students must be competent computer and internet users.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

MKT 227 SEO & Web Analytics for Marketing 3-0-3
The course introduces students to search engine optimization techniques used to help drive traffic to a web page. Commonly used web analytics tools are reviewed to demonstrate how to assess the effectiveness of basic online marketing efforts. Google Analytics will be featured. Note: Students must be competent computer and internet users.
Semester(s) Offered: Spring
Requisite: None.
Type: C

MKT 228 Social Media Tools 3-0-3
This course provides instruction for using a variety of social media tools. It includes a discussion of how social media is used to market products and services. Students will create accounts on a number of social networking sites and develop basic skills in their use from a personal and/or business perspective. Discussion topics will include: best practices in the use of social media; trends in social media use, and ethical issues.
Semester(s) Offered: Fall
Requisite: None.
Type: C

Mass Communication

MCOM 101 Introduction To Journalism 3-0-3
A study of the basic principles of news gathering, reporting, interviewing and writing. The course examines the following: the idea of news writing; types

of journalistic articles; lead writing techniques; ethical issues in journalism; the application of research methods, including the use of library and online sources; and the types of publications which use journalistic writing. Students write basic stories under real-time constraints.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: T, IAI-MC 919

MCOM 201 Introduction to Mass Communication 3-0-3
A survey of mass media and their effect on American society and in a global environment. The course will explore the major forms of the mass media, including the internet and social media, newspapers, magazines, radio, television, film, advertising, and public relations. Emphasis will be placed on the nature of mass communication industries and the historical development and major functions, responsibilities, elements, and theories of mass communication.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T, IAI-MC 911

MCOM 220 Voiceover: Vocal Production 3-0-3
A performance and critique based course introducing the student to the art of voice acting with an emphasis on voice and articulation. The student will develop skills and techniques to evaluate voice and speech patterns, interpret commercial, industrial and narrative copy or scripts, mark copy, and effectively communicate ideas naturally while becoming familiar with the intimacy of microphone use.
Semester(s) Offered: Fall
Requisite: None.
Type: T

MCOM 221 Voiceover: Characterization 3-0-3
A performance and critique based course expanding on the student's voice acting work in Voiceover I. Course emphasis is on characterization development as a tool for improving analysis and delivery of dramatic and narrative copy. Students in broadcasting, communication and theatre will find the course beneficial in developing skills and techniques for evaluating voice and speech patterns; interpreting commercial, dramatic, industrial and narrative copy or scripts; and effectively communicating ideas naturally through the intimacy of microphone use.
Semester(s) Offered: Spring
Requisite: None.
Type: T

MCOM 230 Podcast and Radio Production 1-5-3
This course is designed to introduce the student to the fundamentals of broadcast production techniques and digital audio equipment operation. Topics include general production principles and the techniques and operation of broadcast audio tools such as audio board, microphones, digital recorders, and computers. Students will be required to meet production deadlines while demonstrating knowledge of basic script writing, editing, and audio production of commercials, public service announcements, news casts and other studio projects produced in the campus broadcast lab using Audacity editing software.
Semester(s) Offered: Spring
Requisite: None.
Type: T

MCOM 240 Writing for Media 3-0-3
Emphasizes writing for audio and visual presentations, including continuity, commercials, public service announcements, news, and special events. Students will learn to write on deadline, edit copy for timed broadcasts, research subjects, write to visuals, and examine potential legal conflicts and ethical issues when writing for broadcast and new media.
Semester(s) Offered: Fall
Requisite: Eligible for ENG 101.
Type: T

MCOM 255 Broadcast Announcing 3-0-3
This is a media performance class designed to introduce students to the principles, tools and techniques of broadcast announcing. Through hands on experience, students will learn to prepare and deliver commercials, news, interviews, public service announcements, and special events. Students will develop communication skills and confidence through regular performance before the microphone and camera.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

MCOM 299 Topics In Mass Communication 3-5-3
This course features an in-depth study of some aspect of film, television, radio, or other form of mass media. Topics will vary and may include (but are not limited to) the following: aspects of the history of film or other mass media; new developments in media; particular movements in film or television; important directors or writers, etc. Alternatively, the focus may be hands-on instruction in a specific aspect of film, radio, or television production.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

Massage Therapy

MT 101 Therapeutic Massage I 4-2-5
This course lays the foundation for developing the skills of a massage therapist. Upon course completion, students will be able to perform a full Swedish massage utilizing proper technique and body mechanics. In addition, students will learn the rich history of massage therapy, how to develop a professional and therapeutic patient/client relationship and the proper methods for communication within the profession as well as the health care community.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101. Department consent
Type: C

MT 102 Body Structure & Function 4-0-4
Student will develop a basic understanding of human anatomy and physiology as it relates to mastering the theory and practice of therapeutic massage. The course covers basic structure and function of the integumentary, skeletal, muscular, and nervous systems, as well as common pathologies affecting these systems.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101. Department consent
Type: C

MT 190 Clinical Practicum 0-6-3
Students will be providing massage therapy services to clients in the clinical setting under close supervision of an instructor. Students will practice setting appointments, consultations and performing basic massage techniques on the client. Students will have an opportunity to enhance documentation, communication and time management skills.
Semester(s) Offered: Fall, Spring
Requisite: Coordinator's permission, concurrent enrollment in or completion of MT 101 with a grade of "C" or better. Department consent
Type: C

MT 200 Business Practices in Massage Therapy 1-0-1
Students learn about state laws and regulations governing the practice of massage therapy. In addition, they will learn how to open, own and operate a massage therapy practice and strategies for marketing their business. Students will discuss business ethics related to massage therapy and utilize ethical guidelines when making decisions in massage therapy practice. Classroom discussions are facilitated by the instructor and include issues such as appropriate clinical behaviors, cultural difference, legal issues and the changing health care environment.
Semester(s) Offered: Fall, Spring
Requisite: Coordinator's permission, concurrent enrollment in or completion of MT 101 with a grade of "C" or better. Department consent
Type: C

MT 201 Therapeutic Massage II 4-2-5
Building on the foundation of the first semester, students will enhance their palpation skills by moving deeper into the tissues, gain greater understanding of the specific musculature and recognize various soft tissue dysfunctions. Basic assessment procedures and the ability to locate trigger points prepare students to develop a treatment plan for clients with chronic pain and/or address client's special needs. Students will learn to adapt their massage protocols to meet the needs of pregnant mothers and other special populations.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Coordinator's permission, completion of MT 101 with a grade of "C" or better.
Type: C

MT 202 Body Structure And Function II 4-0-4
This course is the second unit of study on basic human structure and function as it relates to massage therapy. Course content will include the following systems and common pathologies related to each: circulatory, endocrine, respiratory, digestive, and reproductive.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101. Department consent
Type: C

MT 203 Complementary Techniques 3-0-3
In this course students will continue to expand their knowledge and understanding of massage modalities utilized by a massage therapist. Course content includes many complementary techniques and alternative approaches to massage. Students will demonstrate the proper technique for sports massage in addition to developing a basic understanding of: lymphatic massage, reflexology, hydrotherapies, aromatherapy, shiatsu, craniosacral therapy, and other somatic therapies.
Semester(s) Offered: Fall, Spring
Requisite: Coordinator's permission, concurrent enrollment in or completion of MT 101 with a grade of "C" or better. Department consent
Type: C

MT 220 Pathology for the Massage Therapist 2-0-2
This course is designed to provide the student with an overview of basic pathologic concepts and processes with a clinical emphasis. Components of each disease covered include: etiology, incidence, risk factors, manifestations, and special implications for the MT. Concepts on health and aging pertaining to the various systems are included to achieve a clinical awareness of life span changes.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: C

Variable up to
MT 299 Spec Topics in Massage Therapy (4)-(8)-(4)
Varied topics in massage therapy will be addressed in order to meet most current needs of profession.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

Mathematics

MATH 91 Statistics Foundations 1-0-1
This course is to be taken concurrently with General Education Statistics (MATH 107). Math skills which are necessary for a student to be successful in the general education math course will be emphasized, specifically: order of operations; fractions and ratios; graphs and graph interpretation; evaluating expressions and formulas; set theory and Venn diagrams; and inequalities and interval notation. In addition, this course will integrate appropriate study skills in time management, test preparation, and organization.
Semester(s) Offered: Intermittently
Requisite: Concurrent enrollment in MATH 107.
Type: P

MATH 92 College Algebra Foundations 0-2-1
This course is to be taken concurrently with College Algebra (MATH 112). Math skills which are necessary for a student to be successful in College Algebra will be emphasized, specifically: reviewing fundamental algebraic skills; describing and graphing basic functions; solving equations and inequalites; and using technology appropriately. In addition, effective learning strategies will be discussed and integrated throughout the course.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Concurrent enrollment in MATH 112.
Type: P

MATH 93 Review of Arithmetic 3-0-3
This course is for students who want to improve their mastery of arithmetic skills or who are not prepared for Math 95 or Math 97. The course covers operations with whole numbers, fractions, decimals, percentages, ratios, proportions, operations with signed numbers, and beginning algebra and geometry. Students whose math placement test scores indicate arithmetic weaknesses are required to complete ALEKS PPL preparation prior to enrolling in MATH 95 or MATH 97 or to pass this course with a grade of "C" or better.
Semester(s) Offered: Intermittently
Requisite: None.
Type: P

MATH 95 Mathematical Literacy 5-0-5
This course serves as a prerequisite for General Education Statistics (MATH 107) and Liberal Arts Mathematics (MATH 111). The primary goal of this course is to enable students to develop conceptual understanding and problem-solving competence at the intermediate algebra level. This course emphasizes conceptual understanding and modeling rather than procedures. However certain procedures are essential to the study of algebra and they will be included. This course focuses on developing mathematical maturity through problem-solving, critical thinking, data analysis, and the writing and communication of mathematics. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. In addition, effective learning strategies will be discussed and integrated throughout the course.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: P

MATH 97 Algebra for STEM 5-0-5
This course serves as a prerequisite for College Algebra (Math 112) and Math for Elementary Teachers I (Math 105). The primary goal of this course is to enable students to develop the graphing and algebraic skills needed for success in a first college math course in STEM (science, technology, engineering, math) and business. The course consists of the following topics: real numbers, linear equations and inequalities, graphs of equations and inequalities, functions, systems of linear equations, exponents and polynomials, factoring, rational expressions, roots and radicals, quadratic equations, and nonlinear inequalities. In addition, effective learning strategies will be discussed and integrated throughout the course. Use of a graphing calculator, as recommended by the instructor, is required for this course.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Math placement into MATH 97 or completion of MATH 95 with a grade of "C" or better.
Type: P

MATH 105 Mathematics for Elementary Teachers I 4-0-4
This is the first of a two-course sequence (MATH 105 and MATH 106) designed to meet the needs of students majoring in elementary education. Students are strongly encouraged to successfully complete both classes at the same college. MATH 105 alone does not fulfill the general education requirement for an AA degree. MATH 105 covers problem solving, logic and mathematical reasoning, sets, functions, numeration systems, interpretations of the four basic arithmetic operations, algorithms for the arithmetic operations, mental computation strategies, elementary number theory, fractions, decimals, proportions, and irrational numbers. (Note: This course is a content course, not a methods course.)
Semester(s) Offered: Fall
Requisite: Math placement above MATH 97 or completion of MATH 97 with a grade of "C" or better.
Type: T

MATH 106 Mathematics for Elementary Teachers II 4-0-4
This is the second course of a two-course sequence (MATH 105 and MATH 106) designed to meet the needs of students majoring in elementary education. Students are strongly encouraged to successfully complete both classes at the same college. Completion of this two-course sequence fulfills the math requirement for an AA degree. MATH 106 covers: probability and statistics; introductory geometry; congruence, similarity, and constructions; motion geometry and tessellations; and concepts in measurement. (Note: This course is a content course, not a methods course.)
Semester(s) Offered: Spring
Requisite: MATH 105 with a grade of "C" or better; Completion of the geometry requirement.
Type: T, IAI-M1 903

MATH 107 General Education Statistics 4-0-4
The following concepts and statistical techniques are included: organization, presentation, and description of quantitative data (graphical methods and numerical methods); probability and probability distributions; sampling and statistical inferences (interval estimation and hypothesis testing); and correlation and regression. Students will be required to use a graphing calculator and a statistical software package, as recommended by the instructor, in this course. This course is designed for transfer students in Liberal Arts. Students may receive credit for only one of the following: MATH 107, MATH 191, or BUS 205.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Math placement into MATH 107/MATH 111 or completion of MATH 95 with a grade of "C" or better or completion of MATH 97 with a grade of "C" or better.
Type: T, IAI-M1 902

MATH 111 Liberal Arts Mathematics 4-0-4
This course focuses on mathematical reasoning and the solving of real-life problems by looking at a few topics in depth. Three or four topics will be chosen from the following by the instructor for in-depth study: set theory and logic, geometry, counting methods and probability, statistics, graph theory, consumer mathematics, and voting and apportionment. Use of a scientific calculator, as recommended by the instructor, is required for this course. This is a terminal course in mathematics for Associate in Arts majors and is not a prerequisite for any other mathematics course.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Math placement into MATH 107/MATH 111 or completion of MATH 95 with a grade of "C" or better or completion of MATH 97 with a grade of "C" or better.
Type: T, IAI-M1 904

MATH 112 College Algebra 4-0-4
College Algebra strengthens and expands algebraic and function concepts. Topics included are: complex numbers; intercepts, asymptotes, and symmetry; transformations of graphs; algebra of functions; inverse functions; zeros of polynomial functions; properties and graphs of linear, quadratic, polynomial, radical, rational, exponential, and logarithmic functions; systems of linear and non-linear equations; and matrix solutions to linear systems of equations. Students will be required to use graphing calculators on some assignments and/or tests.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Math placement in MATH 112 or completion of MATH 97, MATH 107, or MATH 111 with a grade of "C" or better; completion of the geometry requirement. Based on placement, some students will need to co-enroll in MATH 92, a co-requisite support course.
Type: T

MATH 113 Finite Math for Business & Social Science 4-0-4
This course covers topics in mathematics with current applications in business and social science. Topics included are mathematical modeling, solving systems of linear equations, matrices and matrix algebra, linear programming, the simplex method, mathematics of finance, sets and counting, probability and Markov chains. Use of a graphing calculator, as recommended by the instructor, is required for this course. This course is not designed for engineering, mathematics or physical science majors but for transfer students in business and social science.
Semester(s) Offered: Fall, Spring
Requisite: Math placement above MATH 112 or completion of MATH 112 with a grade of "C" or better.
Type: T, IAI-M1 906

MATH 114 Trigonometry 3-0-3
Math 114 is a calculus preparatory course designed primarily for students majoring in mathematics, science, or engineering. The topics covered include right triangle trigonometry, trigonometric functions, graphs, inverse trigonometric functions, identities, equations, Law of Sines, Law of Cosines, and an introduction to complex numbers in trigonometric form. Real-world problems will be analyzed. Use of a graphing calculator, as recommended by the instructor is required for this course.
Semester(s) Offered: Intermittently
Requisite: Math placement above MATH 112 or completion of MATH 112 with a grade of "C" or better; Completion of the geometry requirement.
Type: T

MATH 115 Pre-Calculus 5-0-5
This is a calculus preparatory course designed primarily for students majoring in mathematics, science or engineering. The topics covered include review of polynomial, radical, rational, exponential, and logarithmic functions; radian measure; right triangle trigonometry; trigonometric functions and their graphs; inverse trigonometric functions; trigonometric identities and equations; Law of Sines; and Law of Cosines. Real world problems will be analyzed. Use of graphing calculator, as recommended by the instructor, is required for this course.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Math placement above MATH 112 or completion of MATH 112 with a grade of "C" or better; Completion of the geometry requirement.
Type: T

MATH 171 Computer Science I - JAVA 4-0-4
This is a beginning course for students in the Computer Science curriculum and other related areas. The structure and facilities of the Java language are introduced. Topics to be covered include selection, repetition, methods, classes, arrays, files, an introduction to GUI, and program design and documentation. Students will learn to program from the command line and be introduced to an IDE. It is recommended that students complete both Computer Science I and II at the same institution.
Semester(s) Offered: Fall, Spring
Requisite: Math placement above MATH 115 or concurrent enrollment in or completion of MATH 115 with a grade of "C" or better.
Type: T, IAI-CS 911

MATH 191 Introduction to Statistics 4-0-4
The following concepts and statistical techniques are included: measures of central tendency and variability; random variables and probability distributions; binomial, normal, and sampling distributions; estimation; tests of hypotheses; chi square tests; linear regression and correlation; and multiple regression. Statistical software projects are required. Use of a graphing calculator, as recommended by the instructor, is required for this course. At the conclusion of this course, students will be able to extract and interpret information from data and apply statistical tests to make and communicate informed decisions in business and related fields. Students may receive credit for only one of the following: MATH 107, MATH 191, or BUS 205.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Math placement above MATH 112 or completion of MATH 112 with a grade of "C" or better.
Type: T, IAI-M1 902

MATH 203 Analytic Geometry & Calculus I 5-0-5
The calculus sequence is designed for students whose area of concentration is mathematics, science, or engineering. The SWIC Mathematics faculty believes calculus students must become aware of the advances in technology and its uses in mathematics, particularly in calculus. Therefore, computer technology is integrated in the calculus sequence through the use of the Mathematica software package. Students are also required to use graphing calculators, as recommended by the instructor, on some assignments and/or tests. It is recommended that any calculus sequence be completed in the college in which it was begun. However, if a student transfers during the sequence, the student is urged to discuss the calculus entry level with the math department of the transfer school. The MATH 203 course content includes limits of functions, derivatives, extrema of functions, tangents, asymptotes, definite and indefinite integrals, differentiation and integration of transcendental functions, and applications of calculus in physical science and engineering.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Math placement above MATH 115 or completion of MATH 115 with a grade of "C" or better.
Type: T, IAI-MTH 901, IAI-M1 900-1

MATH 204 Analytic Geometry & Calculus II 5-0-5
The calculus sequence is designed for students whose area of concentration is mathematics, science, or engineering. The SWIC Mathematics faculty believes calculus students must become aware of the advances in technology and its uses in mathematics, particularly in calculus. Therefore, computer technology is integrated in the calculus sequence through the use of the Mathematica software package. Students are also required to use graphing calculators, as recommended by the instructor, on some assignments and/or tests. It is recommended that any calculus sequence be completed in the college in which it was begun. However, if a student transfers during the sequence, the student is urged to discuss the calculus entry level with the math department of the transfer school. The MATH 204 course content includes the topics of applications of integration, techniques of integration, infinite series, conic sections, parametric equations, and polar functions.
Semester(s) Offered: Fall, Spring, Summer
Requisite: MATH 203 with a grade of "C" or better.
Type: T, IAI-MTH 902, IAI-M1 900-2

MATH 205 Analytic Geometry & Calculus III 4-0-4
The calculus sequence is designed for students whose area of concentration is mathematics, science, or engineering. The SWIC Mathematics faculty believes calculus students must become aware of the advances in technology and its uses in mathematics, particularly in calculus. Therefore, computer technology is integrated in the calculus sequence through the use of the Mathematica software package. Students are also required to use CAS symbolic calculators, as recommended by the instructor, on some assignments and/or tests. It is recommended that any calculus sequence be completed in the college in which it was begun. However, if a student transfers during the sequence, the student is urged to discuss the calculus entry level with the math department of the transfer school. The MATH 205 course content includes vectors, vector valued functions, functions of two or more variables (with applications), partial differentiation, multiple integration, and vector analysis.
Semester(s) Offered: Fall, Spring, Summer
Requisite: MATH 204 with a grade of "C" or better.
Type: T, IAI-MTH 903, IAI-M1 900-3

MATH 210 Computer Programming for Engineers 3-0-3
This course introduces the fundamental principles, concepts, and methods of computing with emphasis on applications in the physical sciences and engineering. Topics include basic problem solving and programming techniques, fundamental algorithms and data structures, and use of computers in solving engineering and scientific problems. It is expected that the student will have some basic knowledge of computers. This course is taught using the C++ language.
Semester(s) Offered: Fall
Requisite: MATH 203 with a grade of "C" or better.
Type: T

MATH 213 Calculus for Business & Social Sciences 4-0-4
This course introduces the concepts of differential and integral calculus with applications to problems in business and social science. Topics included are limits, derivatives, continuity, integration techniques, logarithmic and exponential functions, and partial derivatives. Computer and/or calculator aided instruction will be used throughout the course; use of a graphing calculator, as recommended by the instructor, is required. The course is designed for transfer students in business and social science; it is not for engineering, mathematics, or physical science majors.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Math placement above MATH 112 or completion of MATH 112 with a grade of "C" or better.
Type: T, IAI-M1 900-B

MATH 271 Computer Science II - JAVA 4-0-4
An introduction to the fundamentals of algorithms, including searching, sorting, and recursion, associated with data structures using the Java language. Topics covered include classes, linked lists, stacks, queues, trees, maps, and algorithm complexity.
Semester(s) Offered: Spring
Requisite: MATH 171 with a grade of "C" or better; concurrent enrollment or completion of MATH 203 with a grade of "C" or better.
Type: T, IAI-CS 912

MATH 290 Differential Equations 3-0-3
This is a first course in ordinary differential equations with applications to the sciences. Topics include first-order differential equations, separation of variables, exact equations, linear equations with constant coefficients, undetermined coefficients, linear independence, LaPlace transforms, boundary value problems, and numerical methods. Students will be required to use CAS systems such as Mathematica and symbolic calculators.
Semester(s) Offered: Spring, Summer
Requisite: MATH 205 with a grade of "C" or better.
Type: T, IAI-MTH 912

MATH 292 Linear Algebra 3-0-3
Topics include vector methods, vector spaces, equivalent matrices, systems of linear equations, linear transformations and matrices, and determinants with applications. Use of a graphing calculator, as recommended by the instructor, is required for this course.
Semester(s) Offered: Spring
Requisite: MATH 203 with a grade of "C" or better.
Type: T, IAI-MTH 911

Variable up to
MATH 299 Special Topics in Mathematics (4)-0-(4)
This course will cover special topics or problems in mathematics and provide students with the knowledge and ability to deal with those topics or problems in relation to their special requirements.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

Medical Assistant

MA 110 Phlebotomy Skills 0-2-1
This course is designed to enhance student's competency in the following blood drawing skills: capillary or dermal puncture, evacuated tube method, syringe, and butterfly. Review of tube types, order, and complications or problems with blood drawing will be reviewed along with the practice of the blood drawing skills.
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: C

MA 130 Medical Office Clinical Procedures I 1-2-2
Clinical Procedures I introduces the student to basic aseptic technique as it involves the obtaining of vital signs and preparing and assisting with the physical exam.
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: C

MA 135 Health Care & Patient Communications 2-0-2
Provides the student with skills in communication which are the basis of their function as a professional medical assistant. Techniques of interaction are taught to enable the student as a professional to reduce stress for themselves and for those with whom they will come in contact. Legal and ethical issues relative to communication are discussed.
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: C

MA 140 Medical Office Procedures 3-0-3
This course introduces the student to the job description and attitudes needed to work in the medical office. Specific skills taught are administrative procedures, which involve reception, mailing, phone, filing, maintaining medical records, financial record-keeping, applied medical-legal concepts, billing, banking and collection.
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: C

MA 141 Medical Insurance & Coding 2-0-2
This course introduces the student to insurance terminology, medical coverage and common insurance forms. The student identifies and codes procedures and diagnoses for completion of insurance forms.
Semester(s) Offered: Spring, Summer
Requisite: Department consent
Type: C

MA 143 MA Automation II 2.5-0-2.5
This course is a continuation of MA 142. Information regarding coding and charges will be filed for specific services and retrieved for analysis of total office efficiency. Billing and age analysis information will be generated from existing files and insurance forms for private, state, and federal agencies will be completed and printed. Office financial statement will be created and updated.
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: C

MA 145 Medical Law and Ethics 2-0-2
Medical Law & Ethics is a course designed to introduce the student to legal and ethical issues in the medical field. This course will provide an introduction into the legal terminology, regulations, licensure of the various allied health fields, ethical standards, professional liability, documentation and professional responsibilities.
Semester(s) Offered: Fall, Spring

Requisite: Department consent
Type: C

MA 150 Medical Pathology I 3-0-3
Medical Pathology I is a course designed to integrate medical terminology, laboratory tests, common symptoms and diseases related to a body system. In this manner a sequenced and coordinated course of study of dermatology, musculoskeletal system, nervous system, endocrine system, and blood and lymphatic system is provided. (Two hours lecture, four hours lab, eight-week module) Fall
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: C

MA 151 Medical Pathology II 4-0-4
Medical Pathology II is a continuation of the study of medical terminology as it relates to each body system, disease conditions, symptoms and lab tests used in diagnosis. In this course the word roots presented will be related to common conditions, symptoms and methods of diagnosis.
Semester(s) Offered: Fall, Spring
Requisite: MA 150 with a grade of "C" or better. Department consent
Type: C

MA 170 Medical Lab Orientation I 1-2-2
This course is designed to provide the student with the opportunity to perform basic medical lab tests that are performed in the office; basic techniques of blood drawing, specimen collection, preservation of specimens, correct labeling techniques and patient test preparation; to practice good technique in hematology laboratory procedures and apply to all lab testing in performance, care and maintenance of equipment. The course will also prepare the graduate with the knowledge to set up an office and assist with the preparation of patients for lab testing at other facilities. (3-0-3 lecture, four hours lab, eight-week module)
Semester(s) Offered: Fall, Spring
Requisite: Program Admission. Department consent
Type: C

MA 171 Medical Lab Orientation II 1-2-2
This course continues with lab skills in urinalysis testing, serology, chemistry and microbiology. Good laboratory techniques and quality control are stressed. (2-0-2 lecture, four hours lab, eight-week module)
Semester(s) Offered: Spring, Summer
Requisite: MA 170 with a grade of "C" or better. Department consent
Type: C

MA 180 Medical Office Clinical Procedures II 1-2-2
This course introduces the student to aseptic technique and minor surgery procedures; special procedures in general practice; care and maintenance of equipment and performance of emergency procedures.
Semester(s) Offered: Fall, Spring
Requisite: MA 130 with a grade of "C" or better. Department consent
Type: C

MA 181 Cardiopulmonary Procedures 1-2-2
This course introduces the student to cardiac and respiratory anatomy and physiology, and cardiac and pulmonary function testing; electrocardiography performance, equipment and maintenance, recognition of normal findings, and response in emergency situations.
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: C

MA 182 Pharmacology and Administration Techniques 3-2-4
This course presents the calculations for medication administration, the classification of pharmacology agents and clinical techniques for medication administration.
Semester(s) Offered: Fall, Spring
Requisite: MA 130 each with a grade of "C" or better. Department consent
Type: C

MA 195 Office Practicum 0-10-5
The student will practice previously learned skills in a supervised clinical experience at a physicians office. This clinical practicum will be under the direction of a physician and a medical assistant. NOTE: Student needs to have completed 34.5 units/credits of the MA certificate with a grade of "C" or better in each to enroll in this course.
Semester(s) Offered: Spring, Summer
Requisite: Department consent
Type: C

MA 199 Capstone Review 1-0-1
This course prepares the Medical Assistant program students and individuals who are employed as Medical Assistants for the CMA exam. The class includes a review of administrative and clinical procedures. Mock exams are part of the review and preparation.
Semester(s) Offered: Spring, Summer
Requisite: Department consent
Type: C

MA 255 Medical Assistant Management Internship 2-0-2
This course builds on basic administrative skills and introduces the student to management skills needed in a medical facility. The student will complete course objectives on preparation and implementation of office policies, employee selection, and required legal forms in management. (10 hours administrative practicum) NOTE: Students must have completed the MA certificate to enroll in this course.
Semester(s) Offered: Spring, Summer
Requisite: Department consent
Type: C

MA 299 Problems in Med Assist Variable up to (4)-(8)-(4)
Application of medical assisting principles to specific problems through case studies, simulation, special class projects or problem-solving procedures. Projects and topics will vary to meet individual interests and needs. NOTE: Requisite varies by topic.
Semester(s) Offered: Intermittently
Requisite: Department consent
Type: C

Medical Laboratory Technology

MLT 100 Introduction to Phlebotomy Procedures 1-2-2
This course is an introduction to the basic skills of a phlebotomist. The course focuses on venous and capillary blood draws, but instruction is provided on other collection methods common in the laboratory. Students are instructed in safety, patient preparation and identification, proper technique, problem solving and basic specimen processing.
* Six-week session, two days per week two hours per day with online learning materials.
Semester(s) Offered: Fall, Spring
Requisite: Completion of or concurrent enrollment in MLT 242.
Type: C

MLT 101 Phlebotomy Certification 1-3-4
This course will provide instruction, practice and experience in the basic skills needed for venous and capillary blood draws. Instruction is also provided on other collection methods common in the laboratory. Students are also instructed in safety, patient preparation and identification, proper technique, problem solving and basic specimen processing.
Semester(s) Offered: Fall, Spring
Requisite: None
Type: C

MLT 130 Specimen Collection and Handling 1-2-2
This course introduces students to preanalytical collection and processing of clinical specimens. Students will follow the course of laboratory testing from specimen ordering, billing considerations, patient preparation, specimen collection and handling, distribution to laboratory departments and packaging for shipment. Particular emphasis is placed on venipuncture and capillary blood draws.
*Eight week-module, two days per week, two hours per day with online learning materials
Semester(s) Offered: Fall, Spring
Requisite: Program admission. Department consent
Type: C

MLT 150 Intro to Clinical Laboratory 1-2-2
The Introduction to the Clinical Laboratory course exposes students to basic laboratory information on safety, organization and personnel, quality control, applied mathematics, basic laboratory procedures and professionalism.
*Eight-week module, two days per week two hours per day with online learning materials
Semester(s) Offered: Fall, Spring
Requisite: Program admission. Department consent
Type: C

MLT 200 Hematology 3-3-4
Hematology is one of four major laboratory disciplines. Hematology focuses on formation and properties of human blood. Testing includes procedures performed in the routine clinical laboratory with an emphasis on cell identification and manual differentials. Students will study the role of the laboratory in diagnosis of anemia, leukemia and other hematologic disorders.
*Eight-week module, six hours of lecture and six hours of lab
Semester(s) Offered: Summer
Requisite: Program admission.
Type: C

MLT 210 Applied Clinical Microbiology 3-3-4
Clinical microbiology is one of four major laboratory disciplines. The study of normal and pathogenic microflora emphasizes methods for isolation, recognition and identification of microorganisms of medical significance. Lecture material focuses on general characteristics pathogenicity and drug susceptibility of infectious organisms. Student laboratory instruction identification, and supplemental testing. Parasitology, mycology and virology are presented as an online learning module.
*Eight-week module, six hours of lecture and eight hours of lab
Semester(s) Offered: Spring
Requisite: Program admission.
Type: C

MLT 220 Serology 1-2-2
Serology is concerned with immunology. Topics include function of the human immune system, antibody/antigen reaction and applied immunology for laboratory testing methods. Introduction to molecular diagnostics is shared with clinical chemistry.
*Eight -week module, two hours of lecture and four hours of lab
Semester(s) Offered: Fall
Requisite: Program admission.
Type: C

MLT 230 Microbiology Clinical Practice 0.5-3-2
This course is hybrid with lecture material presented as an online module. Lecture covers basic information regarding mycobacteria, fungi, parasites and viruses. Correlation with disease states includes etiology, epidemiology, symptoms and basic treatment options. Discussion of detection methods focuses on staining, morphology and molecular testing. Lab will consist of microbiology laboratory simulation on campus.
Semester(s) Offered: Fall, Spring
Requisite: Completion of MLT 210 with a grade of C or better.
Type: C

MLT 240 Immunohematology 3-3-4
Immunohematology is one of four major laboratory disciplines which encompasses topics from the other disciplines to address diagnosis and treatment of hematologic disorders, immune proliferative disorders and coagulopathy. The focus is on proper protocols for the collection, selection, preparation and transfusion of blood products. Special attention is paid to record keeping, blood typing and quality assurance measures
*Eight-week module, six hours of lecture and six hours of lab
Semester(s) Offered: Spring
Requisite: Program admission.
Type: C

MLT 242 Phlebotomy Clinical 0-4-2
Clinical experience is in specimen collection primarily venipuncture. Students must complete 120 hours and 100 successful venipunctures at an assigned site. Clinical rotations are assigned at affiliated off campus clinical sites. Exact schedule varies but is usually day shift with many sites beginning before 8AM.
*Eight hours per week for two weeks at clinical location
Semester(s) Offered: Fall, Spring
Requisite: Successful completion of or co-enrollment in MLT 100.
Department consent
Type: C

MLT 243 Lab Processing Clinical 0-6-3
Clinical experience is in specimen collection and processing. Rotation may include waived testing, reagent and control preparation and specimen packaging dependent on the clinical site.
Clinical rotations are assigned at affiliated off campus clinical sites. Exact schedule varies but is usually day shift with many sites beginning before 8AM.
*Three weeks forty hours per week at clinical location.
Semester(s) Offered: Fall, Spring
Requisite: Completion of MLT 130, MLT 150.
Type: C

MLT 245 Clinical Practice I 0-10-5
Clinical experience is in hematology, clinical chemistry, coagulation, serology, urinalysis and molecular diagnostics. (Many laboratories group these in the core lab). Students participate in supervised laboratory experience during a regular workday. Students should prepare for Monday to Friday, eight hours per day.
* Eight weeks - forty hours per week at clinical location.
Students will have online learning assignments to begin review for the ASCP BOC exam.
Semester(s) Offered: Fall
Requisite: Completion of MLT 200, MLT 220, MLT 250, MLT 260, and MLT 270.
Type: C

MLT 250 Coagulation 2-0-2
Coagulation discusses major components of hemostasis. Testing includes procedures performed in the routine clinical laboratory. Students will study the role of the laboratory in diagnosis of hemorrhagic and thrombotic disorders.
Semester(s) Offered: Fall, Summer
Requisite: Program admission.
Type: C

MLT 260 Clinical Microscopy 1-2-2
Clinical microscopy address urinalysis and body fluid examination. Laboratory time places emphasis on physical, chemical and microscopic analysis of urine. Body fluid procedures include gross exam, cell counts and cellular identification. Lecture material covers anatomy of the renal system, processes of urine formation and body fluid collection and significance.
*Eight-week module, two hours of lecture and four hours of lab
Semester(s) Offered: Spring
Requisite: Program admission.
Type: C

MLT 270 Clinical Chemistry 3-3-4
Clinical chemistry is one of four major laboratory disciplines. Lecture focuses on the wide variety of diagnostic tests performed in the clinical laboratory. Students are instructed in the interpretation of test results as they apply to anatomical systems and pathologic disorders. Laboratory focuses on principles of instrumentation, proper reagent preparation, quality control and basic troubleshooting.
*Eight-week module, six hours of lecture and six hours of lab
Semester(s) Offered: Fall
Requisite: Program admission.
Type: C

MLT 275 Clinical Practice II 0-6-3
Clinical experience is in blood bank microbiology. Both areas will be supplemented with on campus simulated clinical activities. Students should prepare for Monday to Friday eight hours per day.
*Four weeks forty hours per week at clinical site.
*Four weeks four hours per day at campus simulation
Students will have online learning assignments to review for the ASCP BOC exam.
Semester(s) Offered: Spring
Requisite: Completion or concurrent enrollment in MLT 240 and MLT 210.
Type: C

Military Science - Army ROTC

MSC 101 Introduction to Military Science 1-2-2
Introduces military issues and role of the U.S. Army in national defense systems. Reviews time management, goal setting, and motivational leadership.
Semester(s) Offered: Fall
Requisite: None.
Type: T

MSC 102 Introduction to Military Operations 1-2-2
Studies the modern battlefield and its relationship to leadership, team building, and stress management. Individual communication skills and group dynamics are stressed.
Semester(s) Offered: Spring
Requisite: None.
Type: T

MSC 201 Applied Military Skills 2-2-3
Provides detailed instruction and practical exercises in military writing, briefing, and decision-making. Extensive instruction and practice are provided in the reading and use of maps and compasses.
Semester(s) Offered: Fall
Requisite: None.
Type: T

MSC 202 Small Unit Leadership 2-2-3
Provides basic background in first aid and individual field-movement skills and instruction in the use of analytical aids in planning, organizing, and controlling a changing environment.
Semester(s) Offered: Spring
Requisite: None.
Type: T

Music

MUS 101 Music Appreciation 3-0-3
This course presents a survey of Western music from the Middle Ages through the present. In addition to learning musical elements and orchestral instruments, students will be introduced to the compositions of the master composers and stylistic characteristics of the various musical eras. A writing component such as a concert report or research paper is required.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-F1 900

MUS 102 American Popular Music 3-0-3
This Humanities course presents a survey of American popular music. It covers the time span from 1840 to the present and will allow the student an opportunity to examine the various types, styles and influential musicians of American pop music.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-F1 904

MUS 103 Music Literature 3-0-3
This course is designed as a survey of music literature of the Western tradition from the Middle Ages to the present. Representative selections by major composers of each era are chosen to illustrate the characteristic styles, techniques, forms and performance practices of vocal and instrumental music. An emphasis is placed on guided listening and elementary score reading. Offered in spring semester only.
Semester(s) Offered: Spring
Requisite: MUS 105.
Type: T

MUS 104 Fundamentals of Music 3-0-3
This is a beginner's course in reading music notation and understanding keys, scales and chords, including an introduction to the keyboard. The course is designed for a variety of music students: those who are beginning the study of music with little or no background; those who are prospective college music majors who must prepare for formal training in harmony and counterpoint; elementary school teachers who need a basic knowledge of music; and those students who would like a degree of music literacy. Students are expected to clap, sing and participate in class.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 105 Music Theory I 4-0-4
This course provides an introduction to fundamental melodic and harmonic principles of common practice theory. Students will learn to write, hear, play, and analyze music of all periods and styles. This course will concentrate on the development of written skills (four-part writing and analysis), aural skills (melodic, harmonic, rhythmic dictation), and singing skills (sight-singing). Offered in fall semester only. Piano proficiency or concurrent enrollment in class piano is strongly suggested.
Semester(s) Offered: Spring
Requisite: MUS 104 with a grade of "C" or better or satisfactory score on the fundamental theory skills test.
Type: T

MUS 106 Music Theory II 4-0-4
Continuation of MUS 105. This course provides an introduction to fundamental melodic and harmonic principles of common practice theory. Students will learn to write, hear, play, and analyze music of all periods and styles. This course will concentrate on the development of written skills (four-part writing and analysis), aural skills (melodic, harmonic, and rhythmic dictation), and singing skills (sight-singing). Offered in spring semester only.
Semester(s) Offered: Fall
Requisite: MUS 105 with a grade of "C" or better.
Type: T

MUS 110 World Music 3-0-3
This course covers the basic elements of music (melody, rhythm, harmony, and form) and perceptive listening relevant to non-western music. The music culture of several non-Western societies will be examined. Completion of this course fulfills the Non-Western Culture requirement for graduation at SWIC.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T, IAI-F1 903N

MUS 111 Class Instruction in Piano I 2-0-2
This is a beginning course for students without previous piano study. Students are expected to practice daily. Required of the music major without piano background, but may be taken as an elective by the non-major.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 112 Class Instruction in Piano II 2-0-2
Continuation of MUS 111.
Semester(s) Offered: Fall, Spring
Requisite: MUS 111 with a grade of "C" or better.
Type: T

INFORMATION FOR ALL PRIVATE APPLIED MUSIC FOR ENRICHMENT COURSES:

Music-Private Applied Music for Enrichment Private music lessons are offered to students desiring to improve their music skills in the following instruments: piano; voice; trumpet; French horn; trombone; tuba/euphonium; flute; clarinet; oboe; bassoon; saxophone; violin; viola; cello; double bass; guitar; bass guitar; percussion (drum set, snare drum, timpani, mallets, Latin percussion). These courses may be repeated up to a maximum of four hours of elective
credit. These courses do not meet the requirements for pursuit of a major or minor in music at the baccalaureate level.
Students enrolling in private applied courses must contact the Fine and Performing Arts Department Co-Chair Andrew Jensen, D.M.A., at 618-235-2700, ext. 5032 or andrew.jensen@swic.edu, for instructions and instructor assignment.
Students receive one half-hour lesson per week for 15 weeks of the semester.

MUS 119 Private Applied Piano for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring, Summer

Requisite: None.
Type: T

MUS 120 Private Applied Voice for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 121 Private Applied Trumpet for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 122 Private Applied French Horn for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 123 Private Applied Trombone for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 124 Private Applied Tuba/Euphonium for Enrichment
Semester(s) Offered: Fall, Spring 1-0-1
Requisite: None.
Type: T

MUS 125 Private Applied Flute for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 126 Private Applied Clarinet for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 127 Private Applied Oboe for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 128 Private Applied Bassoon for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 129 Private Applied Saxophone for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 130 Private Applied Violin for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 131 Private Applied Viola for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 132 Private Applied Cello for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 133 Private Applied Double Bass for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 134 Private Applied Guitar for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T

MUS 135 Private Applied Bass Guitar for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T

MUS 136 Private Applied Percussion for Enrichment 1-0-1
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 145 Audio Technology Orientation 3-0-3
This course introduces students to the fundamental concepts, terminology, and workflows of audio production. Topics include an overview of audio equipment, signal flow, the basics of electricity, basic acoustic principles, and essential troubleshooting techniques. Students will gain hands-on experience with industry relevant hardware while developing foundational skills in system setup, cable management, and industry vocabulary. This course provides a comprehensive introduction to the expectations and practices of the professional audio environment, preparing students for further study in audio technology.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 152 History of the Recording Industry 3-0-3
Traces the development and growth of recording technology, the role of recording technology in the music business, the growth and development of major record labels, and a survey of the significant individuals who engineered the recordings.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 154 Survey of Music Computer Technology 3-0-3
This course explores the essential tools and techniques of modern digital audio production. Students will examine a variety of digital audio workstations (DAWs) and related music software, gaining an understanding of their common features and workflows. Topics include MIDI sequencing, digital sampling, virtual instruments, and audio processing. Emphasis is placed on developing adaptable skills that allow students to navigate any DAW or production environment effectively. Through hands-on projects, students will apply these concepts in real-world music and audio production scenarios.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 155 Survey of Music Computer Technology II 3-0-3
Building on the foundation of MUS 154, this course delves deeper into digital audio workstation (DAW) workflows, sound design, and advanced MIDI techniques. Students will explore sampling, synthesis, and the integration of virtual instruments into studio production. Emphasis is placed on creative sound manipulation, automation, and advanced sequencing techniques. Through hands-on projects, students will refine their ability to navigate complex DAW environments, preparing them for professional applications in music production, sound design, and multimedia audio.
Semester(s) Offered: Fall, Spring
Requisite: MUS 154 with a grade of "C" or better.
Type: T

MUS 159 Concert Band I 0-3-1
The Concert Band is an ensemble dedicated to the study and performance of a wide variety of musical literature. Repertoire represents a variety of musical styles from classic to contemporary. The ensemble is open to all woodwind, brass and percussion students.
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 160 Concert Band II 0-3-1
The Concert Band is an ensemble dedicated to the study and performance of a wide variety of musical literature. Repertoire represents a variety of musical styles from classic to contemporary. The ensemble is open to all woodwind, brass and percussion students.
Semester(s) Offered: Fall, Spring
Requisite: MUS 159. Department consent
Type: T

MUS 161 Community Choir I 0-3-1
The Community Choir will sing choral repertoire ranging from classical to folk and popular. The choir will perform several times during the school year. Rehearsals will be dedicated to learning correct vocal production, musicianship, ear-training and sight-reading skills through vocal exercises and choral literature.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 162 Community Choir II 0-3-1
The Community Choir will sing choral repertoire ranging from classical to folk and popular. The choir will perform several times during the school year. Rehearsals will be dedicated to learning correct vocal production, musicianship, ear-training and sight-reading skills through vocal exercises and choral literature.
Semester(s) Offered: Fall, Spring
Requisite: MUS 161.
Type: T

MUS 163 Jazz Band I 0-3-1
The Jazz Band rehearses and performs literature from the contemporary big band media. Instrumentation consists of alto, tenor and baritone saxophones, trumpets, trombones, piano, guitar, drums, and bass.
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 164 Jazz Band II 0-3-1
The Jazz Band rehearses and performs literature from the contemporary big band media. Instrumentation consists of alto, tenor and baritone saxophones, trumpets, trombones, piano, guitar, drums, and bass.
Semester(s) Offered: Fall, Spring
Requisite: MUS 163. Department consent
Type: T

MUS 165 Instrumental Ensemble I 0-3-1
This is an instrumental performing ensemble dedicated to the study and performance of a wide variety of musical literature. Depending on the ensemble chosen, the literature will represent the various styles found within that idiom, i.e., music of the baroque, classical, romantic, and 20th century, as well as various jazz, rock, and popular styles.
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 166 Instrumental Ensemble II 0-3-1
This is an instrumental performing ensemble dedicated to the study and performance of a wide variety of musical literature. Depending on the ensemble chosen, the literature will represent the various styles found within that idiom, i.e., music of the baroque, classical, romantic, and 20th century, as well as various jazz, rock, and popular styles.
Semester(s) Offered: Fall, Spring
Requisite: MUS 165. Department consent
Type: T

MUS 167 Vocal Jazz Ensemble I 0-3-1
Students in Vocal Jazz Ensemble study and perform a wide range of classic and contemporary music in the vocal jazz and pop idioms. Prospective students must contact the instructor and successfully complete an audition prior to registration. Public performances are presented throughout the fall and spring semesters.
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 168 Vocal Jazz Ensemble II 0-3-1
Students in Vocal Jazz Ensemble study and perform a wide range of classic and contemporary music in the vocal jazz and pop idioms. Prospective students must contact the instructor and successfully complete an audition prior to registration. Public performances are presented throughout the fall and spring semesters.
Semester(s) Offered: Fall, Spring
Requisite: MUS 167. Department consent
Type: T

MUS 175 Guitar Ensemble I 0-3-1
The guitar ensemble is a performing ensemble that rehearses and performs a wide variety of guitar ensemble literature, ranging from classical to jazz to popular music. Students will learn different rehearsal and practice techniques related to preparing a musical performance, with the goal of presenting at least one concert per semester. Students will learn many musical skills such as solo guitar, group playing, and basic improvisation.
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 176 Guitar Ensemble II 0-3-1
The guitar ensemble is a performing ensemble that rehearses and performs a wide variety of guitar ensemble literature, ranging from classical to jazz to popular music. Students will learn different rehearsal and practice techniques related to preparing a musical performance, with the goal of presenting at least one concert per semester. Students will learn many musical skills such as solo guitar, group playing, and basic improvisation.
Semester(s) Offered: Fall, Spring
Requisite: MUS 175. Department consent
Type: T

MUS 177 Jazz Improvisation I 0-2-1
This course is designed to foster a greater appreciation and understanding of jazz improvisation. Study will include functional jazz harmony, instrumental technique, and aural development. Students will study the music of prominent composers and performers including Miles Davis, Herbie Hancock, Horace Silver, Duke Ellington and others. Each class session will include study through rehearsal and performance by the members of the class.
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 178 Jazz Improvisation II 0-2-1
This course is designed to foster a greater appreciation and understanding of jazz improvisation. Study will include functional jazz harmony, instrumental technique, and aural development. Students will study the music of prominent composers and performers including Miles Davis, Herbie Hancock, Horace Silver, Duke Ellington and others. Each class session will include study through rehearsal and performance by the members of the class.
Semester(s) Offered: Fall, Spring
Requisite: MUS 177. Department consent
Type: T

MUS 201 The Business of Music 3-0-3
A survey of the music industry, including music copyright, publishing, performance licensing, songwriting, record markets, record production, record merchandising, recording studio management, unions and guilds, agents, artist management, concert promotion, musical theater production, music in retail, music in radio, and music in advertising.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: T

MUS 205 Music Theory III 4-0-4
This course will continue the study of advanced harmonic techniques including modulation, altered chords, chromatic harmony, counterpoint

and introduction to contemporary harmonic principles. Students will learn to write, hear, play, and analyze music of all periods and styles. This course will concentrate on the development of written skills (four-part writing and analysis), aural skills (melodic, harmonic, and rhythmic dictation), singing skills (solfeggio and sight-singing), and keyboard skills (scales, chords, chord progressions). Special emphasis will be placed on the techniques used by 20th century composers. Must be taken in sequence. Offered in fall semester only.
Semester(s) Offered: Fall, Spring
Requisite: MUS 106 with a grade of "C" or better.
Type: T

MUS 206 Music Theory IV 4-0-4
This course will continue the study of advanced harmonic techniques including modulation, altered chords, chromatic harmony, counterpoint and introduction to contemporary harmonic principals. This course will concentrate on the development of written skills (four-part writing and analysis), aural skills (melodic, harmonic, and rhythmic dictation), singing skills (solfeggio and sight-singing), and keyboard skills (scales, chords, chord progressions). Special emphasis will be placed on the techniques used by 20th century composers. Must be taken in sequence. Offered in spring semester only. Students are strongly encouraged to continue to enroll in subsequent levels of class piano.
Semester(s) Offered: Fall, Spring
Requisite: MUS 205 with a grade of "C" or better.
Type: T

MUS 213 Class Instruction in Piano III 2-0-2
This course is designed for the music major or minor or any student who is interested in continuing to improve piano skills.
Semester(s) Offered: Fall, Spring
Requisite: MUS 112 with a grade of "C" or better.
Type: T

MUS 214 Class Instruction in Piano IV 2-0-2
This course is designed for the music major or minor or any student who is interested in improving piano skills.
Semester(s) Offered: Fall, Spring
Requisite: MUS 213 with a grade of "C" or better.
Type: T

INFORMATION FOR ALL PRIVATE APPLIED MUSIC FOR ENRICHMENT COURSES:

Private music lessons are offered to students pursuing a major or minor in music in the following instruments: piano; voice; trumpet; French horn; trombone; tuba/euphonium; flute; clarinet; oboe; bassoon; saxophone; violin; viola; cello; double bass; guitar; bass guitar; percussion (drum set, snare drum, timpani, mallets, Latin percussion). These courses may be repeated up to a maximum of eight elective semester credits. It is expected that students will achieve satisfactory progress in order to continue to the next level of credit. Note: Successful audition or jury examination.

NOTE: Students enrolling in private applied courses must contact the Program Coordinator Andrew Jensen, D.M.A., at 618-235-2700, ext. 5032 or andrew.jensen@swic.edu, for instructions and instructor assignment.

Students receive a one-hour lesson per week for 15 weeks of the semester. Students will be expected to perform in a minimum of one performance seminar or recital per semester as well as attend all seminars. Performance seminars are held on Wednesdays from 3-3:50 p.m. during several weeks of the semester. In addition, music majors must attend a specified number of concerts each semester in accordance with Music department policy. All students perform in a final examination jury at the end of the semester.

MUS 219 Private Music Major or Minor Applied Piano 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 220 Private Music Major or Minor Applied Voice 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 221 Private Music Major or Minor Applied Trumpet 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 222 Private Music Major or Minor Applied French Horn 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 223 Private Music Major or Minor Applied Trombone 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 224 Private Music Major or Minor Applied Tuba/ Euphonium 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 225 Private Music Major or Minor Applied Flute 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 226 Private Music Major or Minor Applied Clarinet 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 227 Private Music Major or Minor Applied Oboe 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 228 Private Music Major or Minor Applied Bassoon 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 229 Private Music Major or Minor Applied Saxophone 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 230 Private Music Major or Minor Applied Violin 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 231 Private Music Major or Minor Applied Viola 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 232 Private Music Major or Minor Applied Cello 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent

Type: T

MUS 233 Private Music Major or Minor Applied Double Bass 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 234 Private Music Major or Minor Applied Guitar 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 235 Private Music Major or Minor Applied Bass Guitar 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 236 Private Music Major or Minor Applied Percussion 2-0-2
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 250 Basic Recording Techniques 3-0-3
This course provides an in-depth study of microphone types, placement techniques, and recording strategies across various audio production scenarios. Students will explore the characteristics of different microphones, their applications in studio and field recording, and how to optimize placement for voiceover, music production, and live recording. Students will also learn the basics of how to mix and master their captures for different recording and playback environments. Through hands-on projects, students will develop critical listening skills and practical expertise in capturing high-quality audio.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

MUS 251 Advanced Recording Techniques 3-0-3
Building on the foundational skills in MUS 250, this course focuses on applying recording techniques to a variety of real-world scenarios, including voiceover, field recording, solo artists, small ensembles, and full-band productions. Students will also further explore the fundamentals of mixing and mastering, including equalization, dynamic processing, spatial effects, and finalizing a mix for different distribution formats. Through hands-on projects, students will gain experience adapting their techniques to different recording environments and refining their recordings for professional-quality results.
Semester(s) Offered: Fall, Spring
Requisite: MUS 250 with a grade of "C" or better.
Type: T

MUS 252 Critical Listening in Audio 3-0-3
This course develops essential aural skills for audio professionals across various fields, including music production, live sound, and post-production. Students will train their ears to recognize and analyze acoustic and electronic timbres, instrument ranges, sonic properties, blend, balance, and spatial placement. The course also covers critical aspects of audio processing, including equalization, compression, limiting, reverb, and other effects used to shape sound. Through focused listening exercises and practical applications, students will enhance their ability to make informed sonic decisions in any audio environment.
Semester(s) Offered: Fall, Spring
Requisite: MUS 154 with a grade of "C" or better.
Type: T

MUS 255 Music Technology Practicum 1-10-3
Practical experience for advanced students in a professional recording industry setting. This course may be repeated for additional credit. Not more than six hours toward the major are allowed. Students must complete an application which can be found by going to the web address swic.edu/music and choosing the link to Music Technology. Practicum applicants are responsible for applying to one of the SWIC Music department approved practicum sites.
Semester(s) Offered: Fall, Spring
Requisite: Department consent
Type: T

MUS 259 Concert Band III 0-3-1
The Concert Band is an ensemble dedicated to the study and performance of a wide variety of musical literature. Repertoire represents a variety of musical styles from classic to contemporary. The ensemble is open to all woodwind, brass and percussion students.
Semester(s) Offered: Fall, Spring
Requisite: MUS 160. Department consent
Type: T

MUS 260 Concert Band IV 0-3-1
The Concert Band is an ensemble dedicated to the study and performance of a wide variety of musical literature. Repertoire represents a variety of musical styles from classic to contemporary. The ensemble is open to all woodwind, brass and percussion students.
Semester(s) Offered: Fall, Spring
Requisite: MUS 259. Department consent
Type: T

MUS 261 Community Choir III 0-3-1
The Community Choir will sing choral repertoire ranging from classical to folk and popular. The choir will perform several times during the school year. Rehearsals will be dedicated to learning correct vocal production, musicianship, ear-training and sight-reading skills through vocal exercises and choral literature.
Semester(s) Offered: Fall, Spring
Requisite: MUS 162.
Type: T

MUS 262 Community Choir IV 0-3-1
The Community Choir will sing choral repertoire ranging from classical to folk and popular. The choir will perform several times during the school year. Rehearsals will be dedicated to learning correct vocal production, musicianship, ear-training and sight-reading skills through vocal exercises and choral literature.
Semester(s) Offered: Fall, Spring
Requisite: MUS 261.
Type: T

MUS 263 Jazz Band III 0-3-1
The Jazz Band rehearses and performs literature from the contemporary big band media. Instrumentation consists of alto, tenor and baritone saxophones, trumpets, trombones, piano, guitar, drums, and bass.
Semester(s) Offered: Fall, Spring
Requisite: MUS 164. Department consent
Type: T

MUS 264 Jazz Band IV 0-3-1
The Jazz Band rehearses and performs literature from the contemporary big band media. Instrumentation consists of alto, tenor and baritone saxophones, trumpets, trombones, piano, guitar, drums, and bass.
Semester(s) Offered: Fall, Spring
Requisite: MUS 263. Department consent
Type: T

MUS 265 Instrumental Ensemble III 0-3-1
This is an instrumental performing ensemble dedicated to the study and performance of a wide variety of musical literature. Depending on the ensemble chosen, the literature will represent the various styles found within that idiom, i.e., music of the baroque, classical, romantic, and 20th century, as well as various jazz, rock, and popular styles.
Semester(s) Offered: Fall, Spring
Requisite: MUS 166. Department consent
Type: T

MUS 266 Instrumental Ensemble IV 0-3-1
This is an instrumental performing ensemble dedicated to the study and performance of a wide variety of musical literature. Depending on the ensemble chosen, the literature will represent the various styles found within that idiom, i.e., music of the baroque, classical, romantic, and 20th century, as

well as various jazz, rock, and popular styles.
Semester(s) Offered: Fall, Spring
Requisite: MUS 265. Department consent
Type: T

MUS 267 Vocal Jazz Ensemble III 0-3-1
Students in Vocal Jazz Ensemble study and perform a wide range of classic and contemporary music in the vocal jazz and pop idioms. Prospective students must contact the instructor and successfully complete an audition prior to registration. Public performances are presented throughout the fall and spring semesters.
Semester(s) Offered: Fall, Spring
Requisite: MUS 168. Department consent
Type: T

MUS 268 Vocal Jazz Ensemble IV 0-3-1
Students in Vocal Jazz Ensemble study and perform a wide range of classic and contemporary music in the vocal jazz and pop idioms. Prospective students must contact the instructor and successfully complete an audition prior to registration. Public performances are presented throughout the fall and spring semesters.
Semester(s) Offered: Fall, Spring
Requisite: MUS 267. Department consent
Type: T

MUS 275 Guitar Ensemble III 0-3-1
The guitar ensemble is a performing ensemble that rehearses and performs a wide variety of guitar ensemble literature, ranging from classical to jazz to popular music. Students will learn different rehearsal and practice techniques related to preparing a musical performance, with the goal of presenting at least one concert per semester. Students will learn many musical skills such as solo guitar, group playing, and basic improvisation.
Semester(s) Offered: Fall, Spring
Requisite: MUS 176. Department consent
Type: T

MUS 276 Guitar Ensemble IV 0-3-1
The guitar ensemble is a performing ensemble that rehearses and performs a wide variety of guitar ensemble literature, ranging from classical to jazz to popular music. Students will learn different rehearsal and practice techniques related to preparing a musical performance, with the goal of presenting at least one concert per semester. Students will learn many musical skills such as solo guitar, group playing, and basic improvisation.
Semester(s) Offered: Fall, Spring
Requisite: MUS 275. Department consent
Type: T

MUS 277 Jazz Improvisation III 0-2-1
This course is designed to foster a greater appreciation and understanding of jazz improvisation. Study will include functional jazz harmony, instrumental technique, and aural development. Students will study the music of prominent composers and performers including Miles Davis, Herbie Hancock, Horace Silver, Duke Ellington and others. Each class session will include study through rehearsal and performance by the members of the class.
Semester(s) Offered: Fall, Spring
Requisite: MUS 178. Department consent
Type: T

MUS 278 Jazz Improvisation IV 0-2-1
This course is designed to foster a greater appreciation and understanding of jazz improvisation. Study will include functional jazz harmony, instrumental technique, and aural development. Students will study the music of prominent composers and performers including Miles Davis, Herbie Hancock, Horace Silver, Duke Ellington and others. Each class session will include study through rehearsal and performance by the members of the class.
Semester(s) Offered: Fall, Spring
Requisite: MUS 277. Department consent
Type: T

MUS 299 Special Topics in Music Variable up to (4)-0-(4)
This course is an introduction to special topics and issues in music presented through lectures, discussions, demonstrations, readings, and/or individual research. Topics vary each semester. This course may be taken more than once if different topics are covered.
Semester(s) Offered: Intermittently
Requisite: Department consent
Type: T

Networking

NETW 101 Introduction to Networking 3-0-3
This course is an introductory course which covers the fundamentals of data communications and networking principles. Students will learn network standards, protocols, and topologies. Students will also learn network architectures of Local Area Networks and Wide Area Networks and related media, connections and components. Other topics covered include the OSI model, TCP/IP, and network security. Note: Successful students will possess basic computer skills prior to enrolling.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

NETW 102 Management of Information Security 3-0-3
This course focuses on the managerial aspects of information security and assurance. Topics covered include access control models, information security governance, and information security program assessment and metrics. Coverage on the foundational and technical components of information security is included to reinforce key concepts. The course includes up-to-date information on changes in the field, such as national and international laws and international standards like the ISO 27000 series.
Requisite: None.
Type: C

NETW 182 Linux Operating System 3-0-3
This course introduces the fundamentals of the Linux operating system. The basics of Linux system concepts, architecture, and administration will be covered. Students will learn about the Linux file system, file processing, editors, basic shell programming, utilities, and the X Window System. Note: Students who meet the requisite through professional certification or work experience should contact the program coordinator.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

NETW 188 Windows Server I 3-0-3
This course provides students with the knowledge and skills that are required to manage and maintain the Microsoft Windows Server Environment. The course focuses on selecting server and client hardware, installing and configuring a server, setting up and managing network services, establishing remote access services, interoperating on a network, setting up Internet services, monitoring and tuning a server, and troubleshooting problems. Students will have an opportunity to apply their knowledge through hands-on projects and case study assignments.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

NETW 211 Digital Forensics 3-0-3
This course deals with the preservation, identification, extraction, documentation, and interpretation of digital data. Students will learn the basic artifacts of each of today's most popular operation systems and PC applications. The course will also include an overview of communication artifacts. Topics covered include evidence handling, chain of custody, collection, preservation, identification, and recovery of digital data. This course will feature the use of today's most popular forensics tools. Note: Successful students will possess intermediate computer skills, including file management skills and knowledge of various operating systems, prior to enrolling.
Semester(s) Offered: Fall
Requisite: None.
Type: C

NETW 212 Incident Response and Disaster Recovery 3-0-3
A "Principles of Incident Response and Disaster Recovery" course aims to equip students with the knowledge to identify vulnerabilities within computer networks, implement countermeasures to mitigate risks and damage, and develop comprehensive plans to minimize downtime and losses during system disruptions, including understanding the key principles of incident response and disaster recovery, creating effective contingency plans, and analyzing best practices for managing emergencies across various scenarios particularly focusing on IT business continuity perspectives.
Requisite: None.
Type: C

NETW 231 Ethical Hacking 3-0-3
Ethical Hacking introduces students to the tools and penetration testing methodologies used by ethical hackers to protect computer networks. In addition, students learn what and who an ethical hacker is and the importance of ethical hacking in protecting corporate and government data from cyber attacks. Students will use security resources to facilitate the investigation of vulnerabilities and the corresponding methods to protect networks. The course also includes federal and state computer crime laws and penalties for illegal computer hacking.
Semester(s) Offered: Spring
Requisite: None.
Type: C

NETW 232 Virtual Machine and Cloud+ Computing 3-0-3
Virtual Machine and Cloud+ Computing is a course that is intended to serve the needs of students and professionals who are interested in mastering fundamental, vendor-independent cloud computing concepts. No previous cloud computing experience is necessary to begin learning from this course, although knowledge of basic computer, networking, and security principles is helpful. Those seeking to pass Comp TIA's Cloud+ certification exam will find the course's content, approach, and numerous projects and study questions especially helpful.
Requisite: None.
Type: C

NETW 261 Virtualization Technologies 3-0-3
This course focuses on installing, configuring, and managing VMware vSphere, which includes VMware ESXi and VMware vCenter Server, for the software defined data center. Topics include configuration of network functionality, creating and configuring storage devices, and the monitoring and troubleshooting of a vSphere infrastructure in an enterprise. Additional topics include high availability, redundancy and resource utilization. This course prepares students for the following certification exam: VMware Certified Professional-Data Center Virtualization (VCP-DCV).
Semester(s) Offered: Intermittently
Requisite: CISC 163 with a grade of "C" or better.
Type: C

NETW 271 Network Security 3-0-3
This course provides an overview of information security practices and techniques. Students will become familiar with the concepts and terms associated with computer and programming security techniques, local and wide area network implementation, and network architecture. Topics will include TCP/IP, operating system best practices, application development best practices, networks and services, communications concepts, hardware, and communications media. Note: Students who meet the requisite through professional certification or work experience should contact the program coordinator.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

NETW 295 Networking Internship 0-15-3
This course requires 240 hours of supervised work experience at an approved work site. The course provides the necessary articulation between theory and the world of computer networking. Note: Students should be enrolled in the last semester of study prior to graduation.
Semester(s) Offered: Intermittently
Requisite: Minimum GPA of 2.5. Department consent
Type: C

NETW 299 Special Topics in Networking Variable up to (4)-0-(4)
This course presents projects and topics in networking by simulated experiences, observations, discussions, conferences, readings or individual research. Current technologies related to the field of networking will be presented and discussed. Projects and topics will vary to meet individual interest and needs.
NOTE: Requisite varies by topic.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

Nursing Education

NE 101 Dosage Calculations 0.5-0-0.5
The course is designed to enable the student to advance basic mathematical concepts and systems of measure to calculate oral and parenteral dosages for selected medications. The study of drugs, actions, indications, side effects, and adverse reactions in regards to nursing care will be emphasized.
Semester(s) Offered: Fall, Spring
Requisite: HRO 150, BIOL 155/157, NE 102, NE 103, NE 105 all with a grade of "C" or better, NE 104 with a grade of "P", concurrent enrollment in or completion of NE 106, NE 108, ENG 101 and BIOL 156/158 with a grade of "C' or better, NE 107 and NE 109 each with a grade of "P".
Type: C

NE 102 Intro to Nursing Procedures 1-3-2.5
The course is designed to enable the student to perform basic nursing procedures related to the care of patients. Focus of the course is on developing a theoretical foundation for specified procedures along with practice of the procedures in a simulated setting in the classroom and laboratory. The course will prepare the student to perform basic procedures necessary to the nursing care of a patient. This course is required for selected students who are beginning their nursing career.
Semester(s) Offered: Fall, Spring
Requisite: Program admission required; HRO 100 or HRO 160, HRO 120 each with a grade of "C" or better; concurrent enrollment in or completion of NE 103, NE 105, BIOL 155/157, HRO 150 each with a grade of "C" or better; concurrent enrollment in NE 104 or completion with a grade of "P", or escrowed credits for CNA/LPN.
Type: C

NE 103 Fundamentals of Nursing Care 3-2-4
The course is designed to acquire the basic knowledge foundation needed to work as a nurse. The theoretical foundation for basic assessment and nursing skills is presented in relation to basic human needs and the nursing process. Students use knowledge, science, and evidence to begin to assess a patient's ability to meet Basic Needs and to implement fundamental nursing interventions.
Semester(s) Offered: Fall, Spring
Requisite: Program admission required, if fail NE 103/104 must take series. HRO 100 or HRO 160, HRO 120 each with a grade of "C" or better; concurrent enrollment in or completion of NE 102, NE 105, BIOL 155/157, HRO 150 each with a grade of "C" or better; concurrent enrollment in NE 104 with a grade of "P" , or escrowed credits for CNA/LPN.
Type: C

NE 104 Fundamentals Nursing Lab 0-2-1
The course is designed to experience manual and physical application of patient care in a laboratory skill setting. Skills are performed in a safe and effective manner with a variety of equipment and supplies. The course will prepare the student to perform foundational procedures necessary to the nursing care of a patient in relation to Basic Needs.
Semester(s) Offered: Fall, Spring
Requisite: Program admission required; if fail NE 103/104 must take series; HRO 100 or HRO 160, HRO 120 each with a grade of "C" or better; concurrent enrollment in or completion of NE 102, NE 105, BIOL 155/157, HRO 150 each with a grade of "C" or better; or escrowed credits for CNA/LPN.
Type: C

NE 105 Human Growth and Development 2-0-2
The course is designed to emphasize an individual's ability to maintain health while utilizing the nursing process and developmental theories with a focus on the nursing role as a communicator, provider of care, and educator. The developmental stages of infancy, school-age, adolescent and adulthood are presented in relation to Basic Needs.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Program admission; HRO 100 or HRO 160, HRO 120 each w/"C" or better; concurrent enrollment or completion of NE 102, NE 103, BIOL 155/157, HRO 150 each w/"C" or better; concurrent enrollment in NE 104 or completion w/"P", or escrowed credits for CNA/LPN.
Type: C

NE 106 Maternal Health and Newborn 2-3-3.5
The course is designed to use the nursing process to provide family healthcare during the child-bearing cycle. Learning situations are provided in the classroom setting, the skills laboratory, simulated sessions and in the reality of

the hospital setting. Clinical experience is primarily in the hospital maternity setting.
Semester(s) Offered: Fall, Spring, Summer
Requisite: BIOL 155/157, HRO 150, NE 102, NE 103, each w/a grade of "C" or better, NE 104 w/a grade of "P" or escrowed credits for CNA/LPN, concurrent enrollment in or completion of NE 101, NE 105, NE 108, ENG 101, BIOL 156/158 each w/a grade of "C" or better, NE 107 and NE 109 each w/a grade of "P".
Type: C

NE 107 Maternal Health and Newborn Lab 0-1-0.5
The course is designed to learn and apply safe care to the family during the child-bearing cycle. Skills are performed in a safe and effective manner with a variety of equipment. Learning situations are provided in the skills laboratory and simulated sessions.
Semester(s) Offered: Fall, Spring, Summer
Requisite: BIOL 155/157,HRO 150, NE 102, NE 103, each with a grade of "C" or better, NE 104 with a grade of "P" or escrowed credits for CNA/LPN, concurrent enrollment in or completion of NE 101, NE 105, NE 106, NE 108, ENG 101, BIOL 156/158 each with a grade of "C" or better, NE 109 with a grade of "P.".
Type: C

NE 108 Intro to Medical Surgical Care 2-3-3.5
This course is designed to utilize the nursing process in providing care for patients with selected common nursing problems. It introduces the student to the fundamental processes of child and adult illness with an emphasis on the human Basic Needs of sexuality, comfort, rest and sleep, self-awareness and self-esteem, love and belonging, and safety. Learning situations are provided in the classroom setting, skills laboratory, simulation sessions, and in the patient care setting. Clinical experience is primarily in the hospital setting.
Semester(s) Offered: Fall, Spring
Requisite: BIOL 155/157, HRO 150, NE 102, NE 103, NE 105 each with a grade of "C" or better, NE 104 with a grade of "P" or escrowed credit for CNA/LPN; concurrent enrollment in or completion of NE 101, NE 106, ENG 101, BIOL 156/158 each with a grade of "C" or better, NE 107 and NE 109 each with a grade of "P.".
Type: C

NE 109 Intro to Medical Surgical Lab 0-1-0.5
This course is designed to learn and apply safe care to the processes of child and adult illness. Skills are performed in a safe and effective manner with a variety of equipment. Learning situations are provided in the skills laboratory and simulation sessions.
Semester(s) Offered: Fall, Spring
Requisite: BIOL 155/157, HRO 150, NE 102, NE 103, NE 105 each with a grade of "C" or better, NE 104 with a grade of "P" or escrowed credit for CNA/LPN; concurrent enrollment in or completion of NE 101, NE 106, NE 108, ENG 101, BIOL 156/158 each with a grade of "C" or better, NE 107 with a grade of "P.".
Type: C

NE 206 Behavioral Health Nursing Lab 0-1-0.5
This course is designed to solidify the physical application of patient care in a laboratory skill setting. Skills are performed in a safe and effective manner with a variety of equipment and focus on behavioral health skills. Learning situations are provided in the skills laboratory, community and simulation sessions.
Semester(s) Offered: Fall
Requisite: If fail NE 206/207, must retake series. ENG101, BIOL 156/158, NE 101, NE 106, NE 108 each w/C or better, NE 107 and NE 109 each with a grade of "P", or escrowed credits for CNA/LPN; concurrent enrollment in or completion of NE 207, NE 209, ENG 102, BIOL 250 each with a grade of "C" or better, NE 208 with a grade of "P"..
Type: C

NE 207 Behavioral Health Nursing 2-3-3.5
This course is designed to utilize the nursing process in providing care for patients with selected common behavioral health problems including anxiety, personality, mood and psychotic disorders, cognitive disorders in the elderly, and substance abuse. A focus on the safety, ethical, and legal issues are also considered. Emphasis is on interferences with human Basic Needs for self-awareness, self-esteem, and communication which causes alterations of behavior. Personal development of the student is emphasized as a prelude to understanding others. Learning situations are provided in the classroom setting and in-patient settings in the hospital and the community.
Semester(s) Offered: Fall, Spring
Requisite: If fail NE 206/207, must retake series. ENG 101, BIOL 156/158, NE 101, NE 106, NE 108 each with a grade of "C" or better, NE 107 and NE 109 each with a grade of "P", or escrowed credits for CNA/LPN; concurrent enrollment in or completion of NE 209, ENG 102, BIOL 250 each with a grade of "C" or better, NE 206, NE 208 with a grade of "P". .
Type: C

NE 208 Medical Surgical Synthesis Lab 0-1-0.5
This course is designed to solidify the physical application of patient care in a laboratory skill setting. Skills are performed in a safe and effective manner with a variety of equipment and focus on behavioral health and advanced medical surgical skills. Learning situations are provided in the skills laboratory, community and simulation sessions.
Semester(s) Offered: Fall, Spring
Requisite: If fail NE 208/209, must retake series. Eng 101, BIOL 156/158, NE 101, NE 106, NE 108 each with a grade of "C" or better, NE 107 and NE 109 each with a grade of "P", or escrowed credits for CNA/LPN; concurrent enrollment in or completion of NE 207, NE 209, ENG 102 and BIOL 250 each with a grade of "C" or better, NE 206 with a grade of "P". .
Type: C

NE 209 Medical-Surgical Nursing I 3.5-3-5
This course is designed to utilize the nursing process in providing care for patients with selected common health problems of the cardiac, respiratory, vascular and musculoskeletal systems including oxygenation, ventilation, perfusion, blood dyscrasias and skeletal abnormalities. Emphasis is on interferences with human Basic Needs for activity, mobility and oxygen. Learning situations are provided in the classroom setting, the skills laboratory, simulated sessions, and the hospital setting.
Semester(s) Offered: Fall, Spring
Requisite: If fail NE 208/209, must retake series. ENG 101, BIOL 156/158, NE 101, NE 106, NE 108 each with a grade of "C" or better, NE 107, NE 109 each with a grade of "P", or escrowed credits for CNA/LPN; concurrent enrollment in or completion of NE 207, ENG 102, BIOL 250 each with a grade of "C" or better, NE 206, NE 208 each with a grade of "P". .
Type: C

NE 210 Medical-Surgical Nursing II 3.5-0-3.5
This course is designed to utilize the nursing process in providing and coordinating nursing care for the patient experiencing common and predictable medical-surgical problems of the endocrine, upper gastrointestinal, and urinary system. An emphasis is continued on the human Basic Needs for nutrition and elimination, sensory perception, and safety. The role change from student to graduate nurse is also considered with discussion of the professional and ethical standards that are involved in nursing care. Learning situations are provided in the classroom setting, the skills laboratory, simulated sessions, and the hospital setting.
Semester(s) Offered: Fall, Spring
Requisite: If fail NE 210/211/212/213, must take series. BIOL 250, ENG 102, NE 207, NE 209, each with a grade of "C" or better, NE 206 and NE 208 each with a grade of "P"; concurrent enrollment in or completion of NE 211, PSYC 151, SOC 153 each with a grade of "C" or better, NE 212 and NE 213 each with a grade of "P"..
Type: C

NE 211 Medical-Surgical Nursing III 3.5-0-3.5
This course is designed to utilize the nursing process in providing and coordinating nursing care for patients with selected common health problems including fluid and electrolyte imbalances, disorders of the skin, eye, ear, lower gastrointestinal system, neurological and neuromuscular disorders, trauma, and shock. Emphasis is on the human Basic Needs for safety and sensory perception, nutrition, and elimination. The role change from student to graduate nurse is also considered. Learning situations are provided in the classroom setting, the skills laboratory, simulated sessions, and the hospital setting.
Semester(s) Offered: Fall, Spring
Requisite: If fail NE 210/211/212/213, must take series. BIOL 250, ENG 102, NE 207, NE 209, each with a grade of "C" or better, NE 206 and NE 208 each with a grade of "P"; concurrent enrollment in or completion of NE 210, PSYC 151, SOC 153 each with a grade of "C" or better, NE 212

and NE 213 each with a grade of "P"..
Type: C

NE 212 Advanced Nursing Clinical 0-5-2.5
This course is designed to utilize the nursing process in providing and coordinating nursing care for patients with selected health problems encompassing the Basic Needs. The course synthesizes and enhances prior learned knowledge as the student applies learned information and skills to direct patient care alongside a preceptor within the hospital setting. The role changes from student to graduate nurse is also considered.
Semester(s) Offered: Fall, Spring
Requisite: If fail NE 210/211/212/213 must take series. BIOL 250, ENG 102, NE 207, NE 209, each with a grade of "C" or better, NE 206 and NE 208 each with a grade of "P"; concurrent enrollment in or completion of NE 210, NE 211, PSYC 151, SOC 153 each with a grade of "C" or better, NE 213 with a grade of "P"..
Type: C

NE 213 Advanced Nursing Synthesis 1.5-0-1.5
This course is designed to synthesize utilization of the nursing process in coordination of patient care. Emphasis is on preparation for state licensure testing. Learning situations are provided in the classroom setting.
Semester(s) Offered: Fall, Spring
Requisite: If fail NE 210/211/212/213 must take series. BIOL 250, ENG 102, NE 207, NE 209, each with a grade of "C" or better, NE 206 and NE 208 each with a grade of "P"; concurrent enrollment in or completion of NE 210, NE 211, PSYC 151, SOC 153 each with a grade of "C" or better, NE 212 with a grade of "P"..
Type: C

Office Administration and Technology

OAT 128 Microsoft Outlook 1-0-1
Microsoft Outlook, the personal information manager software included in Microsoft Office, will be covered. Features of Outlook covered will be managing and tracking appointments and tasks; maintaining a calendar; utilizing the address book; and sending and receiving electronic mail.
Semester(s) Offered: Fall
Requisite: None.
Type: C

OAT 156 Microsoft Office Suite I 3-0-3
In this course, students will receive instruction and hands-on training on an office suite software package. Instruction will be on the various applications and how they are being integrated and used in today's office environment to increase productivity and efficiency. Topics include word processing, spreadsheet, database applications, and presentation software, as well as integration of the suite.
NOTE: Knowledge of document processing and Windows recommended.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

OAT 171 Document Processing/Input Technology 3-0-3
The course is designed to enable students to learn or perfect touch keyboarding skills using correct fingering techniques. The student should improve current keyboarding speeds and develop skills necessary for entry level employment and/or personal use. Units of instruction include business letters, memos, email, reports, tables, speech recognition, touch input, handwriting recognition, and employment documents.
Semester(s) Offered: Fall
Requisite: None.
Type: C

OAT 175 Electronic Spreadsheets 3-0-3
The course is designed to teach students to use an electronic spreadsheet package. Comprehensive instruction in the major features of the application will be covered. Topics include creating, editing, formatting, inserting, formulas, and preparing charts. Other topics include graphs, date, statistical, table lookup, dynamic functions, calculation order, nested conditional, file linking commands, and macros. Uses of the database query, sort, statistical functions, and fill are also covered.
NOTE: Keyboarding skill and Windows knowledge recommended.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

OAT 180 Word Processing 3-0-3
The course is designed to teach students to use a word processing package. Comprehensive instruction in the major features of the application will be covered. Topics include creating, editing, formatting, tables, columns, headers, footers, graphics, macros, styles, templates, and forms.
NOTE: Keyboarding skill and Windows knowledge recommended.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

OAT 280 Virtual Office Technologies 3-0-3
This course introduces students to the newest web-based technologies and trends being used by businesses today. Students will develop skills using the latest AI enhanced tools to create business forms, reports, and other common business-related documents.
Semester(s) Offered: Spring
Requisite: None.
Type: C

Orientation

ORIE 101 College Orientation Seminar 1-0-1
The purpose of this course is to introduce students to the expectations of college, requirements for transfer, and support services available to promote success. Students will develop skills needed by transfer institutions and become oriented to the college's online learning platform.
Requisite: None.
Type: T

ORIE 102 Student Leadership Development 1-0-1
This course will teach students essential components of group leadership including foundational theories in leadership, sense of belonging, and student development. Students will develop skills in group leadership, communication, and peer mentorship while increasing their knowledge of campus resources. The primary focus of this class is to prepare students to become leaders of the First Year Orientation process as overseen by the Success Center.
Requisite: None.
Type: T

ORIE 110 College Success Strategies 3-0-3
College Success Strategies is designed to introduce the student to the college experience and help develop the attitudes, strategies, habits, relationships, and knowledge necessary for success. Emphasis will be placed on understanding student rights and responsibilities, developing note-taking strategies, time management skills, and improving study skills. Other topics include self-discovery, interpersonal skills, college survival techniques, transition to college, and transferring to other collegiate institutions. Additional exploration of personal interests/skills, learning styles, goals, and making effective career choices are interrelated skills that will be developed. Time will also be spent exploring personal pathways to career choices and successful skills for preparing to enter the workforce. Students will complete the Myers-Briggs (MBTI) personal assessment to assist in exploring personal choices and skills.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T

Pharmacy Technician

PHAR 101 Affective Knowledge & Skills 4-1-4.5
This course provides information about the ethics, listening skills, verbal/written communication, respect, professional conduct, cultural competence, self-management (i.e. time, stress, change), interpersonal skills (i.e., negotiation, conflict resolution, customer service, teamwork), and problem-solving skills that apply to the role of a pharmacy technician.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for MATH 97; Eligible for ENG 100/ENG 101. Concurrent enrollment in or successful completion of PHAR 110, PHAR 120, PHAR 130, PHAR 140 each with a grade of "C" or better..
Type: C

PHAR 110 Regulations & Professional Standards 3-2.5-4
This course provides information about State & Federal laws regarding

processing, handling, dispensing, and assisting pharmacy in medication distribution. Topics will include: Maintaining registration/licensure, professional standards, regulatory, formulary, contractual, medication safety practices, quality assurance measures, and safety requirements. The focus will be on OSHA, MIOSH and USP requirements for Prevention and Treatment of Exposure to Hazardous Materials.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for MATH 97; Eligible for ENG 100/ENG 101.
Concurrent enrollment in or successful completion of PHAR 120, PHAR 130, PHAR 140 each with a grade of "C" or better..
Type: C

PHAR 120 Clinical Practicum I 0-4-2
This course provides the foundation for the experiential application of knowledge and skills. Topics will include: interpersonal & foundational professional knowledge, regulatory, patient care, quality, and safety knowledge and skills.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for MATH 97; Eligible for ENG 100/ENG 101.
Concurrent enrollment in or successful completion of PHAR 110, PHAR 130, PHAR 140 each with a grade of "C" or better..
Type: C

PHAR 130 Medication Order Processing 2-3-3.5
This course provides information about the complete processing and handling of medications and medication orders. Topics will include: recording demographic/clinical information, storing medications, prepare prescriptions, compounding both sterile and non-sterile compounds, maintaining equipment and supplies, medication recall management, use of technology to ensure safe medication dispensing, purchasing medication, inventory control, and disposal of expired medications.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for MATH 97; Eligible for ENG 100/ENG 101.
Concurrent enrollment in or successful completion of PHAR 110, PHAR 120, PHAR 140 each with a grade of "C" or better..
Type: C

PHAR 140 Clinical Practicum II 0-4-2
This course provides the advanced experimental application of the knowledge and skills across the entire medication management system. This hands-on experience provided opportunities to safely collect needed information, supplies, and equipment to safely compound or dispense a premium patient-specific medication. Includes experiences utilizing best practices, pharmacy regulation compliance, medication procurement, medication disposal, and safety resources/equipment to provide the highest patient care level.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for MATH 97; Eligible for ENG 100/ENG 101.
Concurrent enrollment in or successful completion of PHAR 110, PHAR 120, PHAR 130, each with a grade of "C" or better..
Type: C

Philosophy

PHIL 150 Introduction to Philosophy 3-0-3
Philosophy examines fundamental questions about existence, truth, knowledge, and values. This course offers an introductory survey into major topics in philosophy, including metaphysics, epistemology, and value theory. This course covers the understanding and evaluation of common philosophical arguments, analysis of philosophical literature, and application of philosophical concepts to one's own worldview.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-H4 900

PHIL 151 Introductory Logic 3-0-3
Introductory Logic is a reflection on thought, discourse, and argumentation. It accomplishes this through the study of language, specifically by an examination of sentence structures, inductive and deductive logical systems, argument forms, and formal and informal fallacies. The course provides students the opportunity to apply the methods of Logic to everyday discourse.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-H4 906

PHIL 152 Ethics 3-0-3
As Aristotle says, the purpose of studying Ethics is practical. That is, it helps one aim the arrow of human action with more precision, making it more likely that one will hit the target and live well. In this regard, we look at issues connected to human relations and an ethical life. This includes an examination of the idea of the good life, of human nature, of race and ethnicity, of standards of value and their justifications, and of particular moral problems and decisions. Ethical theories are critically evaluated and used as a means to reflect upon the issues that underlie human action.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-H4 904

PHIL 155 Non-Western Philosophy 3-0-3
This course offers students an opportunity to explore modes of thought which developed in Non-Western (pre-industrial Non-European) cultures. Included in this survey may be the philosophies of Hinduism, Buddhism, Confucianism, Taoism, as well as the philosophies of Native Americans, Africans, Australo-Aborigines, et cetera.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: T, IAI-H4 903N

PHIL 156 Biomedical Ethics 3-0-3
The intent of the course is to introduce students to core issues of biomedical ethics. Ethics, in general, investigates answers to the questions of what we should value, and on what theories we might base decisions regarding how we are to live and act. Biomedical ethics looks to answer these questions within the context of medical care and its distribution. It raises questions of the rights and duties of health care providers and patients, and of the moral dilemmas that arise in context of the American medical system.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101.
Type: T

PHIL 160 Introduction to Philosophy of Religion 3-0-3
The course focuses the development of the analytical and critical skills of students, and provides opportunities of reflection about matters of theological significance. This is accomplished through the study of theological issues, concepts, arguments, and theories. Topics that may be examined include the following: the existence of God, the nature of the divine, the problem of evil, religious diversity, the question of life after death, and the meaning of religious experience.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101.
Type: T, IAI-H4 905

PHIL 299 Special Topics in Philosophy Variable up to (4)-0-(4)
Special topics and issues in philosophy presented through lectures, discussions, readings, and/or individual research. Topics vary each semester. Course may be taken more than once if different topics are covered.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101.
Type: T

Physical Therapist Assistant

PTA 100 Introduction to Physical Therapy 1-0-1
This course introduces students to the profession of physical therapy, the role of the physical therapist (PT), physical therapist assistant (PTA), and the PT technician/aide. Emphasis is placed on a strong interprofessional team approach to providing optimal care for patients in a variety of practice settings. The Guide to PT Practice terminology is introduced, along with the Vision, Principles, Purpose, and Values of the American Physical Therapy Association (APTA). Discussion of the APTA includes the benefits, rights, and privileges of voluntary membership in this professional organization representing PT/PTAs. Review of APTA Core Documents provides students with insight into professional and ethical conduct; and APTA's policies, standards, positions, and guidelines serve as the basis of discussions regarding optimal healthcare standards. A comparison of federal and state statutes are discussed, along with legal issues, health care reimbursement, quality assurance and infection control. Further discussion encompasses the purpose and importance of research in providing quality, contemporary interventions. Students learn how to assess the credibility of resources and how to read professional literature identifying validity, reliability and the level of statistical

significance. Integration of evidence based practice with clinical expertise is encouraged and the development of life-long learning skills is emphasized.
Semester(s) Offered: Fall
Requisite: Program admission, concurrent enrollment in or completion of ENG 101, BIOL 105 each a with a grade of "C" or better.
Type: C

PTA 101 Physical Therapy Science & Skills 5-0-5
This course introduces students to the science and skills of physical therapy. Anatomical muscle and joint structure and function first introduced in Biology are expanded upon to provide the foundation for physical therapy related treatment. Students are introduced to physical therapy equipment and supplies necessary for providing assessments and interventions that are safe, effective, and efficient for both the patient and the clinician. Assessment of range of motion, strength, and vitals, along with an introduction to functional outcome measures prepares students for properly reporting patient status and acting as an integral member of the interprofessional health care team. Electronic Medical Records and proper documentation are introduced, along with medical terminology commonly utilized in contemporary physical therapy practice. A strong PT/PTA relationship is encouraged while students are taught to provide interventions such as range of motion, strengthening, and mobility training primarily for the patient with an orthopedic injury/condition within the PT Plan of Care. This course also includes management of medical emergencies, psychosocial issues affecting patients after injury or disease, and communication skills necessary for interaction with patients, family, caregivers, and other members of the interprofessional health care team.
Semester(s) Offered: Fall
Requisite: Program admission, concurrent enrollment in or completion of ENG 101, BIOL 105 each a with a grade of "C" or better.
Type: C

PTA 102 Patient Care Skills & Assessment 0-4-2
This course allows students to apply the foundational science and skills of contemporary physical therapy practice discussed in PTA 101 Physical Therapy Science and Skills. Case scenarios are utilized to facilitate the use of physical therapy equipment and supplies, and develop the skills necessary for providing assessments and interventions that are safe, effective and efficient as they pertain to the Plan of Care established by the PT while considering the patient perspective and environment. Additionally, case scenarios give students the opportunity to develop professional behaviors complimentary to the profession and recognize changes in skin condition and safety factors while using assistive devices and equipment. Oral and written communication skills are enhanced through patient education, documentation and communication with members of the interprofessional health care team. Students must demonstrate competency in performing the following assessment skills: goniometric and strength assessment of appendicular anatomy and vital signs; and interventions including: range of motion/strengthening, transfer and gait training (primarily for patients with an orthopedic injury/condition). Proper positioning and draping of patients are emphasized. This course also includes attainment of American Heart Association certification in CPR and AED for all ages.
Semester(s) Offered: Fall
Requisite: Program admission, concurrent enrollment in or completion of ENG 101, BIOL 105 each a with a grade of "C" or better.
Type: C

PTA 110 Anatomy and Physiology for the PTA 2-0-2
This course ties the concepts learned in human biology to the anatomy and physiology knowledge required of a physical therapist assistant. Students must have a strong foundation of normal anatomy and physiology to promote healthy lifestyles that will impact overall societal well-being. Students will explore the anatomy and physiology of all body systems before learning about pathological conditions and disease processes introduced into the curriculum next semester.
Semester(s) Offered: Fall
Requisite: Placement above MATH 97 or completion of MATH 95 or MATH 97 with a "C" or better; Eligible for ENG 101 or successful completion of ENG 97.
Type: C

PTA 150 Theory of Physical Agents I 3-0-3
This course introduces students to manual therapy and physical agents utilized to modulate or decrease pain, reduce or eliminate edema, improve circulation, enhance connective tissue extensibility, remodel scar tissue, decrease restrictions associated with musculoskeletal injury, increase joint mobility, decrease nerve root compression and improve patients' exercise performance. Students learn to utilize manual therapy techniques such as massage, fascial release and soft tissue mobilization, and physical agents including superficial and deep heat, light, cryotherapy, hydrotherapy, compression, and traction; as an adjunct to therapeutic exercise, to achieve optimal outcomes. Appropriate tools and functional measures are discussed to assist students in reporting patient status. Classroom discussions involve theoretical and scientific background, physiological responses, indications, contraindications and precautions, clinical applications, parameter selection, documentation, discussion of current research and contemporary practice, clinical decision making, integration and sequencing within the PT Plan of Care, and reimbursement. The role of the physical therapist assistant in implementing the interventions is discussed with adherence to legal practice standards and emphasis on consistency with APTA guidelines.
Semester(s) Offered: Spring
Requisite: ENG 101, BIOL 105, PTA 100, PTA 101, PTA 102 each with a grade of "C" or better.
Type: C

PTA 151 Application of Physical Agents I 2-3-1.5
This course allows students to experience the manual therapies and physical agents discussed in PTA 150 Theory of Physical Agents I, as well as develop entry level skill in their application. Students are taught to skillfully assess the patient, collecting data utilizing appropriate tools and measures and how to apply manual therapies and physical agents for addressing specific anatomical locations/ conditions/ diagnoses in response to visual and palpatory assessment. Students must demonstrate competency in performing manual therapies including massage, fascial release and soft tissue mobilization and physical agents such as moist heat, paraffin, ultrasound, cryotherapy, compression and traction, as it pertains to the Plan of Care established by the PT. Students must also demonstrate competency in performing girth measurements and aseptic technique with proper donning and doffing of Personal Protective Equipment (PPE). All skills must be performed in a safe, effective and efficient manner with a variety of equipment and supplies while considering the patient perspective and environment, and recognizing changes in skin condition and other safety factors. Proper positioning and draping of patients are emphasized and case scenarios are utilized for simulated practice of assessments and interventions. Oral and written communication skills are enhanced through patient education, documentation and communication with members of the interprofessional health care team. Professional behaviors, indications, contraindications, precautions, problem solving, fiscal and time management and adherence to legal standards and APTA guidelines are emphasized in the delivery of quality patient care.
Semester(s) Offered: Spring
Requisite: ENG 101, BIOL 105, PTA 100, PTA 101, PTA 102 each with a grade of "C" or better.
Type: C

PTA 160 Kinesiology & Clinical Orthopedics 5-0-5
This course introduces students to kinesiology, the scientific study of human movement and how it pertains to contemporary physical therapy assessments and interventions of patients with orthopedic related diagnoses/conditions. The course enhances students' previous knowledge of muscle and joint structure and function, goniometry, manual muscle testing, range of motion/ strengthening and mobility training attained in PTA 101 Physical Therapy Science and Skills. As each joint of the appendicular skeleton and each region of the axial skeleton is studied individually, the students' knowledge is expanded to include a deeper understanding of anatomical structures, special tests and related orthopedic diagnoses/conditions, medical and physical therapy management including, but not limited to flexibility testing, stretching, strengthening, endurance/power training, aerobic/anaerobic conditioning, and use of contemporary orthoses. Functional outcome tools related to orthopedic injuries/conditions will be discussed and case scenarios utilized to enhance problem solving skills. Combined joints of the appendicular and axial skeleton are studied when introducing the gait cycle in preparation for gait analysis, posture assessment, and respiratory function.
Semester(s) Offered: Spring
Requisite: ENG 101, BIOL 105, PTA 100, PTA 101, PTA 102 each with a grade of "C" or better.
Type: C

PTA 161 Orthopedic Interventions 0-4-2
This course provides students the opportunity to perform stretching and strengthening exercises discussed in PTA 160 Kinesiology & Clinical

Orthopedics, while refining skills acquired in PTA 102 Patient Care Skills & Assessment. Students must demonstrate competency, as well as develop entry level skill in their performance of flexibility testing, goniometry, manual muscle testing, posture assessment, stretching and strengthening of each joint of the appendicular skeleton and each region of the axial skeleton, as it pertains to the Plan of Care established by the PT. All skills must be performed in a safe, effective, and efficient manner with a variety of equipment and supplies while considering the patient perspective and environment. Students learn to recognize changes in skin condition and safety factors while using assistive devices and equipment. Proper positioning and draping of patients are emphasized and case scenarios are utilized for simulated practice of assessments and interventions. Oral and written communication skills are enhanced through patient education, documentation and communication with members of the interprofessional health care team. Professional behaviors, problem solving skills, fiscal and time management, and adherence to legal standards and APTA guidelines are emphasized in the delivery of quality patient care.
Semester(s) Offered: Spring
Requisite: ENG 101, BIOL 105, PTA 100, PTA 101, PTA 102 each with a grade of "C" or better.
Type: C

PTA 165 Pathology I 3-0-3
This course begins with an analysis of the factors which affect health followed by review of pathologic conditions and interventions to various body systems. It is the first of a two part course sequence in pathology which will include: etiology, incidence, risk factors, manifestations, general medical diagnosis, treatment options, and special implications for the PTA. Topics covered in this course are intended to help prepare the PTA student for his/her first summer clinical experience and includes pathologies related to the metabolic, gastrointestinal, hepatic, biliary, endocrine, renal, urologic, genital and reproductive systems, as well as management/prevention of infectious diseases, autoimmune disorders and PT interventions utilized in the acute care setting. Appropriate tools and functional measures will be discussed to assist students in reporting patient status.
Semester(s) Offered: Spring
Requisite: ENG 101, BIOL 105, PTA 100, PTA 101, PTA 102 each with a grade of "C" or better.
Type: C

PTA 170 Clinical Experience I 0-8-4
This course allows students to enter the clinical environment under the supervision of a physical therapist or physical therapist assistant clinical instructor. Opportunities are available for students to apply skills previously simulated during didactic instruction, as well as observe and assist with other physical therapy interventions as deemed appropriate by the clinical instructor. Students will continue to develop skills in monitoring and modifying patient interventions within the PT Plan of Care while considering the patient perspective and environment, and focusing on time efficiency and communication with members of the interprofessional health care team. A comprehensive, computerized exam of all knowledge acquired in the first year of the program must be passed prior to entering the clinic. Students meet in the classroom prior to clinical experience to perform a self-assessment of abilities, develop goals/objectives for Clinical Experience I, and discuss appropriate clinical behaviors, evidence based practice, legal and ethical dilemmas, fiscal management, conflict resolution, and quality assurance. Students return to the classroom at the conclusion of Clinical Experience I to reflect on and share their experiences while comparing and contrasting the assessments, interventions and documentation practices encountered in the various health care settings. A service activity and reflection paper are also completed in order to promote future volunteerism and patient advocacy.
Semester(s) Offered: Summer
Requisite: HRO 100, PSYC 151, COMM 151, PTA 150, PTA 151, PTA 160, PTA 161, PTA 165 each with a grade of "C" or better.
Type: C

PTA 210 Therapeutic Exercise & Rehabilitation 5-0-5
This course introduces students to physical therapy rehabilitative techniques that assist patients in returning to a state of optimal function. The course builds upon students' previous knowledge of data collection, special tests, patient diagnoses/conditions and medical and physical therapy management acquired in PTA 160 Kinesiology & Clinical Orthopedics, and applies it to medically complex patients with numerous comorbidities and those with chronic pain associated with spinal disorders. Students are taught the neuroscience of pain and various treatment techniques including Sahrmann and McKenzie, expanding their ability to treat patients with impairments effecting the axial skeleton and those in need of core stabilization. The course is then directed towards patients requiring more extensive rehabilitation including patients with non-organic pain, spinal cord injury, neurological dysfunction, and amputation. Contemporary orthotics, prosthetics, and assistive devices are discussed for the patient with an orthopedic or neurological injury/condition. Neuroanatomy, neurodevelopment, motor control, motor performance, motor learning, and related clinical applications are presented. Neuro-rehabilitation techniques/theorists and patient management skills emphasized include PNF, NDT, Brunnstrom, and Rood. Facilitation and inhibition of abnormal tone are discussed to promote functional training, pre-gait and balance activities utilizing the appropriate stage of motor control. Students are taught to recognize and respond to cognitive, communication, sensory, visual, perceptual, and affective impairments when interacting with patients. Appropriate tools and functional measures for related orthopedic and neurological injuries/conditions are discussed to assist students in reporting patient status and function. The unique needs of special populations, such as pediatrics, and specialized clinical environments, such as work hardening and aquatics, are also discussed. Architectural barriers and accessibility regulations are analyzed, and environmental modifications for home, community and work are determined, as well as the patient's need for adaptive equipment and assistive technologies. The unique needs of special populations, such as pediatrics, and specialized clinical environments, such as work hardening and aquatics, are also discussed. Architectural barriers and accessibility regulations are analyzed and environmental modifications for home, community and work will be determined, as well as patients' need for adaptive equipment and assistive technologies.
Semester(s) Offered: Fall
Requisite: PSYC 210, SOC 153, PTA 170 each with a grade of "C" or better.
Type: C

PTA 211 Rehabilitation Techniques 0-4-2
This course allows students to apply the physical therapy rehabilitative techniques discussed in PTA 210 Therapeutic Exercise and Rehabilitation to assist patients in returning to a state of optimal function. The course enhances student's previous knowledge of data collection and interventions acquired in PTA 161 Orthopedic Interventions and applies it to medically complex patients with numerous comordibities and those with chronic pain associated with spinal disorders. Students knowledge of Sahrmann and McKenzie treatment techniques are expanded along with core stabilization exercises. As students transition from treatment of patients with orthopedic injuries/conditions to those with neurological injuries/conditions, neuro-rehabilitation techniques/theorists including PNF, NDT, Brunnstrom and Rood are emphasized. Facilitation and inhibition of abnormal tone are discussed to promote functional training/pre-gait/balance activities utilizing the appropriate stage of motor control. Transfer and gait training taught in previous semesters is enhanced highlighting proper handling techniques for patients with neurological involvement. Students must demonstrate competency in determining appropriate rehabilitative techniques to utilize, as well as performing the techniques and making necessary modifications within the Plan of Care established by the PT. All skills must be performed in a safe, effective, and efficient manner with a variety of equipment and supplies while considering the patient perspective and environment. Students learn to recognize changes in skin condition and safety factors while using assistive devices and equipment. Proper positioning and draping of patients are emphasized and case scenarios are utilized for simulated practice of assessments and interventions. Oral and written communication skills are enhanced through patient education, proper documentation and communication with members of the interprofessional health care team. Professional behaviors, problem solving skills, fiscal and time management, and adherence to legal standards and APTA guidelines are emphasized in the delivery of quality patient care.
Semester(s) Offered: Fall
Requisite: PSYC 210, SOC 153, PTA 170 each with a grade of "C" or better.
Type: C

PTA 220 Pathology II 4-0-4
This course is designed to provide the student with an overview of pathologic concepts and processes with a clinical emphasis. Components of each disease covered include: etiology, incidence, risk factors, manifestations, general medical diagnosis, treatment options, and special implications for the PTA. Appropriate tools and functional measures will again be discussed to assist students in reporting patient status. Pathologies covered include disorders of the hematologic, cardiovascular, lymphatic, pulmonary, nervous, and integumentary systems. Oncology and psychological disorders are also included, as well as co-morbidities. A general overview of laboratory tests and values are included to assist students in recognizing precautions for therapeutic interventions. Concepts on health and aging pertaining to the various systems are included to achieve a clinical awareness of life span changes.
Semester(s) Offered: Fall
Requisite: PSYC 210, SOC 153, PTA 170 each with a grade of "C" or better.
Type: C

PTA 221 Advanced Therapeutic Interventions 0-3-1.5
This course provides a comprehensive overview of pathologic concepts and the implications of providing physical therapy interventions for the lifespan of the patient with complex conditions. Students will build on foundational knowledge from the comprehensive physical therapist assistant curriculum to apply best practices to medically complex patients. This course will combine application techniques from orthopedic and neurological patients from a chronic health condition perspective to equip students with the knowledge and skills to consider the whole individual when delivering physical therapy interventions. The students will gain a better understanding of societal health and physical therapy's role in decreasing healthcare disparities through advocacy, education and physical therapy intervention. This course explores treatment options, risk factors, patient assessment, patient education, advanced communication techniques and patient motivation to improve functional outcomes and independence for those with chronic conditions and comorbidities.
Semester(s) Offered: Fall
Requisite: SOC 153, PTA 170 each with a grade of "C" or better.
Type: C

PTA 270 Clinical Experience II 0-16-8
This course allows students to enter two separate clinical environments under the supervision of a physical therapist or physical therapist assistant clinical instructor. Opportunities are available for students to practice skills required of the physical therapist assistant and further refine their time efficiency with all aspects of clinical management, as well as their ability to monitor and progress patient treatment within the PT Plan of Care. Oral and written communication skills are enhanced through patient education, documentation and communication with members of the interprofessional health care team. Professional behaviors, problem solving, fiscal management, and adherence to ethical, legal standards and APTA guidelines are emphasized in the delivery of quality patient care while considering the patient perspective and environment. Prior to the conclusion of this course, students are required to demonstrate entry level performance for all applicable performance criteria, as evaluated by the clinical and academic faculty utilizing the APTA's Clinical Performance Instrument.
Semester(s) Offered: Spring
Requisite: PTA 200, PTA 201, PTA 210, PTA 211, PTA 220 each with a grade of "C" or better.
Type: C

PTA 280 Clinical Seminar II 2-0-2
In PTA 280 students apply what they have learned throughout the program to prepare for entry into the workforce as an entry-level physical therapist assistant. Students will set goals to enhance their critical thinking and clinical reasoning during their clinical experience while setting self-directed study goals to pass the NPTE examination for the PTA. Students will gain a better understanding of social determinants of health, discharge planning, and fiscal management to improve the delivery of physical therapy services to make an impact on societal health. Students will refine their professional behaviors to deliver ethical, culturally responsive, patient-centered care. Students will collaborate with classmates and follow guidance provided by the program to influence study habits and prepare for the NPTE. As the culminating evidenced-based practice experience students give an oral presentation regarding contemporary research. Students will also create a resume and cover lever while learning about interviewing strategies to obtain employment as an entry level PTA.
Semester(s) Offered: Spring
Requisite: PTA 200, PTA 201, PTA 210, PTA 211, PTA 220 each with a grade of "C" or better.
Type: C

PTA 285 NPTE Prep 1-0-1
This course will provide students with the opportunity for an academic review of the information required and study strategies needed to prepare for the National Physical Therapy Examination for the PTA. This class will culminate with the students completing a timed, computerized full length examination that will identify both areas of strength and weakness, as well as offer suggestion for remedial activities. Note: Permission from the PTA coordinator is required to enroll. Must be a graduate of an accredited PTA program.
Semester(s) Offered: Summer
Requisite: PTA 270 and PTA 280 or department consent.
Type: C

PTA 298 Post Entry-level Ed in PT Variable up to (3)-0-(3)
This course will address post entry-level topics related to physical therapy. Courses taught will allow clinicians to better market their skills in specified area or provide necessary training/re-training for a PT/PTA to develop skills in a new area of rehabilitation. Courses will assist the clinician in attaining required contact hours for licensure renewal.
Semester(s) Offered: Intermittently
Requisite: Department consent
Type: C

PTA 299 Special Topics in Physical Therapy Variable up to (4)-(8)-(4)
Varied topics in the PT profession will be addressed in order to broaden the physical therapist assistant's knowledge base; i.e. advances in geriatric care, changing role of the PTA, enhancing job performance, PT specialty areas, etc. NOTE: Requisite varies by topic.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

Physics

PHYS 151 College Physics I 3-4-5
The principles of mechanics, heat and sound. For pre-dental and pre-medical students, nurses, majors in pharmacy and architecture, and other students whose programs require a beginning course in physics.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Math placement above MATH 112 or completion of MATH 112 with a grade of "C" or better; Eligible for ENG 101.
Type: T, IAI-P1 900L

PHYS 152 College Physics II 3-4-5
Magnetism, electricity, light, and modern physics with some reference to the practical aspects of the principles studied.
Semester(s) Offered: Spring, Summer
Requisite: PHYS 151 with a grade of "C" or better.
Type: T

PHYS 204 Physics-Mechanics 3-2-4
For students in engineering, physics, chemistry, and mathematics. This calculus-based course covers kinematics, Newton's laws, conservation laws (energy, momentum, and angular momentum), and gravity. Particles, systems of particles, rigid bodies, and fluids are discussed.
Semester(s) Offered: Fall, Spring, Summer
Requisite: MATH 203 with a grade of "C" or better; Eligible for ENG 101.
Type: T, IAI-PHY 911, IAI-P2 900L

PHYS 205 Physics-Heat, Elec, & Magnetism 3-2-4
For students in engineering, physics, chemistry, and mathematics. This calculus-based course covers electric and magnetic fields, electric potential, Gauss' law, Ampere's law, Maxwell's equations, electromagnetic waves, AC and DC circuits, temperature, heat, entropy, ideal gases, and heat engines.
Semester(s) Offered: Fall, Spring
Requisite: PHYS 204, MATH 204 each with a grade of "C" or better.
Type: T, IAI-PHY 912

PHYS 206 Physics-Light, & Modern Physics 3-2-4
For students in engineering, physics, chemistry, and mathematics. This calculus-based course covers geometric and physical optics, wave/particle duality, special relativity, quantum mechanics, and atomic and nuclear physics.
Semester(s) Offered: Spring
Requisite: PHYS 204, MATH 204 each with a grade of "C" or better.
Type: T, IAI-PHY 914

PHYS 299 Special Topics in PHYS Science Variable up to (6)-(12)-(6)
Special topics or current issues in physical science will be examined through the use of lectures, case studies, simulations, special projects or other problem-solving procedures.

Semester(s) Offered: Intermittently
Requisite: None.
Type: T

Plumbing

PLBR 101 Drainage Principles & Methods 3.5-1-4
This course is designed to cover the principles of treatment and methods of disposal of sewage, municipal and private; the principles of design, application and correct methods of installation of storm water and sanitary drainage. The course material will also cover topics such as the principles and design of vent piping systems, the use of vacuum condensate collection systems, and recycling technologies.
Requisite: None.
Type: C

PLBR 102 Water Supply Systems 3.5-1-4
This course is designed to furnish the plumber/pipefitter apprentice knowledge regarding water supply systems, which will include information on water treatments, flow calculations, designs, layouts and system components.
Requisite: None.
Type: C

PLBR 103 Ind. Pipe Drawing & Plan Reading 3.5-1-4
This course is designed to furnish the plumber/pipefitter journeyman and apprentice knowledge needed regarding drawing interpretation and plan reading. The course will focus on essential information that applies both to making and interpreting drawings and sketches used in installing piping systems.
Requisite: None.
Type: C

PLBR 104 Ind. Piping Tools & Related Science 3.5-1-4
This course is designed to furnish the plumber/pipefitter journeyman and apprentice knowledge required in the use and care of piping tools essential to the trade with emphasis on safety and safe work practices in the workplace. The course will also focus on basic science and mechanical principles used in the piping industry to provide the journeyman and apprentice with a solid understanding needed to appropriately react to any given situation while working in the piping industry.
Requisite: None.
Type: C

PLBR 105 Ind. Pipe Heritage Codes 3.5-1-4
This course is designed to furnish the plumber/pipefitter apprentice information on the history and career opportunities of the industrial pipe trades. The course will also cover in-depth code interpretation and application associated with the field of industrial piping/plumbers industry.
Requisite: None.
Type: C

PLBR 106 Gas Installations 3.5-1-4
This course is designed to furnish the plumber/pipefitter apprentice with the fundamentals on the safe use of various types of tools and equipment that are used in the installation, testing, repair, maintenance and servicing of gas piping systems and related equipment on which to build knowledge and gain insight into the gasfitting industry.
Requisite: None.
Type: C

PLBR 207 Plumbers Basic Electricity 3.5-1-4
This course is designed to furnish the plumber/pipefitter apprentice with the fundamentals of various types of tools, equipment and safety that are used in the installation, testing, repair, maintenance and servicing of electrical systems used in the plumbing/pipefitters industry.
Requisite: None.
Type: C

PLBR 208 Soldering/Brazing for Plumbers 3.5-1-4
This course is designed to furnish the plumber/pipefitter journeyman and apprentice with knowledge and skills needed regarding soldering and brazing. The course will emphasize OSHA Standards, ANSI Safety in Welding and Cutting along with proper equipment and materials to be used in performing different tasks.
Requisite: None.
Type: C

PLBR 209 Plumbers Adv Drawing Interpretation 3.5-1-4
This course is designed to furnish the plumber/pipefitter journeyman and apprentice with extended knowledge regarding drawing interpretation and plan reading. The course will focus on advanced information in building specifications that applies both to making and interpreting drawings and sketches used to set out the types of materials to be used, methods of installation, and code practices to be observed.
Requisite: None.
Type: C

PLBR 210 Plumbers Code Interpretation 3.5-1-4
This course is designed to furnish the plumber/pipefitter apprentice with knowledge and skills regarding specific construction codes, code interpretation, and applications used in the plumbing/pipefitters industry.
Requisite: None.
Type: C

PLBR 211 Plumbers Guide to Service Work 3.5-1-4
This course is designed to furnish the plumber/pipefitter journeyman and apprentice with knowledge and skills relating to human relations, salesmanship, planning service work, and troubleshooting plumbing systems which represents a high percentage of the total amount of work performed by pipe trades personnel.
Requisite: None.
Type: C

PLBR 212 Plumbers Leadership Development 3.5-1-4
This course is designed to furnish the current plumber/pipefitter foremen and journeymen who want to become foremen with knowledge and skills relating to leadership needed to be more effective on the job. Topics that will be covered are: leadership functions, commitment, people skills, communication, teamwork and organization.
Requisite: None.
Type: C

PLBR 214 IDPH Plbr Mock Testing 3.5-1-4
This course is designed to prepare the apprentice and/or journeyman for the Illinois Department of Public Health certification testing in welding and codes for pipefitters/plumbers.
Requisite: None.
Type: C

PLBR 215 Pumps & Steam Systems 3.5-1-4
This course is designed to furnish the pipefitters/plumbers journeymen and apprentices with the knowledge and essential skills that are used with various pumps and steam systems applicable in the piping industry.
Requisite: None.
Type: C

Variable up to
PLBR 299 Special Topics in Piping/Plumbing (4)-(8)-(4)
This course is designed to familiarize students with special topics or problems in the pipefitting/plumbers' field, to provide them with knowledge and ability to deal effectively with those topics or problems in relation to their specific requirements.
Requisite: None.
Type: C

Plumbing Technology

PLT 101 Introduction to Plumbing and OSHA Certification 1-4-3
This course will prepare students to work efficiently and safely while completely their certificate program in plumbing. Students will develop an understanding of the basic history of plumbing, zoning laws, building codes and licensing requirements which plumbers must adhere to while maintaining safe water supplies, drainage and sewer systems. They will read and interpret drawings, prints and sketches while using tools of their trade in a safe and acceptable manner. Students will learn proper soldering, brazing and welding techniques when working with various materials including copper and plastic pipe and fittings.
Requisite: None.

Type: C

PLT 102 Introduction to Plumbing Systems 1-4-3
In this course, students will focus on advanced techniques in soldering, brazing, and welding, with hands-on practice using a variety of materials such as copper, PVC, and PEX. Emphasis will also be placed on understanding and applying local building codes and regulations, ensuring compliance and safety in all plumbing installations. By the end of the course, students will be equipped with the skills necessary to tackle more sophisticated plumbing challenges and enhance their career prospects in the field.
Requisite: None.
Type: C

PLT 103 Plumbing Systems Design and Installation I 1-4-3
This course provides a comprehensive understanding of the principles and practices involved in designing efficient and code-compliant plumbing systems for residential and commercial buildings. Topics include using plumbing systems for residential and commercial buildings . Topics include using plumbing systems designs and plans to prepare for installing plumbing systems; installing drain, waste and vent fittings; installing water supply piping and supporting and testing pipe. Note: PLBT-104 PLUMBING SYSTEMS AND INSTALLATION II is a continuation of this topic.
Requisite: None.
Type: C

PLT 104 Plumbing Systems Design and Installation II 1-4-3
This course is a continuation of PLBT-103 Plumbing System Design and Installation and covers water heaters, fixtures, faucets, appliances, septic systems, storm water and sumps, HVAC systems, swimming pools, hot tubs, spas, fire safety and irrigation systems.
Requisite: None.
Type: C

PLT 105 Plumbing Services 1-4-3
In addition to installing plumbing systems, plumbers must know how to maintain and repair the plumbing systems and components. This course covers the repair and servicing of plumbing systems and the individual components that comprise the systems in both residential and commercial applications. The course also covers the importance of teamwork and coordinating work with other tradesmen who may be working on the same job.
Requisite: None.
Type: C

Political Science

POLS 125 Introduction to Political Science 3-0-3
A basic introduction and survey of the various fields of political science. Included is an overview of political philosophy, comparative politics, public policy, political research, and international relations. Emphasis is on the role of people as input agents in the various political systems and on the structure and function of the output agencies of government. This course is especially recommended for Political Science and Pre-Law students.
Requisite: Eligible for ENG 101.
Type: T

POLS 150 Intro to American Government 3-0-3
A survey course of the American federal system of government. Included is a historical review of the founding of the United States and its political beginning. Emphasis is on the structure and function of the executive, legislative and judicial branches of the federal government with an overview of state and local government.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-S5 900

POLS 240 Comparative Politics 3-0-3
This course introduces the basic concepts of political analysis and applies them to a variety of countries. Countries are studied individually as well as comparatively on such issues as institutional structures, electoral systems, ideology and political values. Issues facing different political systems and how they deal with those challenges will also be explored.
Semester(s) Offered: Spring
Requisite: Eligible for ENG 101.
Type: T, IAI-S5 905

POLS 241 Comparative Politics -Non-West 3-0-3
This course introduces the basic concepts of political analysis and applies them to a variety of non-western countries. Countries are studied individually as well as comparatively on such issues as institutional structures, electoral systems, ideology and political values. Special emphasis is paid to issues of governance, revolution and regime change, and development. Issues facing different political systems and how they deal with those challenges will also be explored. Students cannot receive credit for both POLS 240 and POLS 241.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101.
Type: T, IAI-S5 906N

POLS 262 American Government (State & Local) 3-0-3
Covers the historical development and organization of state governments; the state constitution; and structure, powers and procedures of legislative, executive and judicial departments in the state government. A detailed study of the Illinois State Constitution, state government and local government is presented.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101.
Type: T, IAI-S5 902

POLS 270 International Relations 3-0-3
A study of contemporary international relations emphasizing how and why nations formulate and implement the policies they do in relation to others, the international and domestic forces that influence foreign policy decisions, and current problems for the international system such as coping with nuclear weapons, terrorism, and trade.
Semester(s) Offered: Spring
Requisite: Eligible for ENG 101.
Type: T, IAI-S5 904

POLS 280 Political Theory 3-0-3
Study of selected political philosophers from the ancient world through the modern. Major ideologies will also be examined.
Semester(s) Offered: Fall
Requisite: Eligible for ENG 101.
Type: T, IAI-PLS 913

POLS 289 Political Impact of American Films 3-0-3
One of the many ways we learn about politics is through the movies. They show us stories of war and revolution, of integrity and corruption, of heroes and villains. They teach us ethics.They help us understand policy issues from international relations to criminal justice, racism, and class conflict. They have shaped public opinion and mobilized citizens from Birth of a Nation in 1915 to The Grapes of Wrath in 1940 and Fahrenheit 911 in 2004.
This course will study the influence that American films have on public opinion and political behavior, American values and culture, American's self-image, American policy-both domestic and foreign, and the perception other countries have of America and Americans.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101.
Type: T

POLS 290 Impact of Western Films on the USA 3-0-3
A study of the influence that Western films have on American public opinion, American values and culture, American's self-image, American policy-both domestic and foreign, and the perception other countries have of America and Americans.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101.
Type: T

POLS 292 Political Impact of War Films 3-0-3
One of the many ways we learn about politics is through the movies. This course will study the influence that war films have on public opinion and political behavior, American values and culture, American's self-image, American policy - both domestic and foreign, and the perception other countries have of America and Americans.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101.
Type: T

Variable up to
POLS 299 Special Topics in Political Science (3)-0-(3)
Designed to present problems and topics in political science by discussions,

readings and individual research. Topics vary each semester. Course may be taken more than once if different topics are considered. Sophomore standing, one course in Political Science and division approval.
Semester(s) Offered: Intermittently
Requisite: Eligible for ENG 101.
Type: T

Practical Nursing

PN 100 Fundamentals of Nursing I 1-2-2
This course prepares students to perform simple and basic nursing functions utilized in a variety of health care settings. It includes classroom and lab preparation for clinical application. Skills include personal care, infection control, safety measures, proper body mechanics, vital signs and patient nutrition. This course can be articulated for students who are Illinois certified nurse assistants. Course delivered in four-week module (four hours classroom, 8 hours lab per week).
Requisite: Eligible for ENG 97 or completion of ENG 94 with a "C" or better and eligible for MATH 97 or completion of MATH 95 with a "C" or better; Concurrent enrollment in or completion of PN 101, PN 140, and PN 142 each with a "C" or better; or consent of Program Coordinator
Semester(s) Offered: Spring
Requisite: Program admission required; Eligible for ENG 101 and math placement into MATH 97 or higher; Concurrent enrollment in or completion of PN 101, PN 140, and PN 142 each with a "C" or better; or consent of Program Coordinator.
Type: C

PN 101 Fundamentals of Nursing II 3-1-3.5
This course prepares students to perform simple and basic nursing functions utilized in a variety of health care settings. It includes classroom and lab preparation with clinical application in the community. Course content includes the nursing process, nursing interventions, meeting the patient's basic needs, PN's role in the health care setting, and medical terminology. Students must provide proof of current BLS (CPR) certification from American Heart Association on the first day of the course to remain enrolled. Course delivered in 12-week module (4 hours classroom, 1.3 lab hours per week).
Requisite: Eligible for ENG 97 or completion of ENG 94 with a "C" or better and eligible for MATH 97 or completion of MATH 95 with a "C" or better; Concurrent enrollment in or completion of PN 101, PN 140, and PN 142 each with a "C" or better; or consent of Program Coordinator
Semester(s) Offered: Spring
Requisite: Program admission required; Eligible for ENG 101 and math placement into MATH 97 or higher; Concurrent enrollment in or completion of PN 100, PN 101, PN 140, and PN 142 each with a "C" or better; or consent of Program Coordinator.
Type: C

PN 102 Fundamentals Clinical 0-4-2
This course is the first clinical education experience that provides an opportunity for students to integrate previously learned didactic and laboratory skills in situations simulating that of a Practical Nurse. Students must provide proof of current BLS (CPR) Certification from American Heart Association on the first day of the course to remain enrolled. This clinical internship provides students with a minimum of 80 clinical contact hours, including exposure to clinical administration of medication, under direct supervision of qualified faculty.
Semester(s) Offered: Fall
Requisite: Program admission required; Eligible for ENG 101 and math placement into MATH 97 or higher; Concurrent enrollment in or completion of PN 100, PN 101, and PN 140, and PN 142 each with a "C" or better; or consent of Program Coordinator.
Type: C

PN 120 Nutrition in Nursing 2-0-2
This course is designed to teach the fundamentals of nutrition and diet therapy to assist in preventing illness/disease, promoting wellness and restoring health. Nutritional needs across the life span are discussed. Course delivered in 8-week module (4 hours of lecture per week).
Requisite: Completion of PN 100, PN 101, and PN 140, and PN 142 each with a "C" or better;
Concurrent enrollment in or completion of PN 152 with a grade of "C" or better; or consent of Program Coordinator
Semester(s) Offered: Summer
Requisite: Completion of PN 101, PN 140, and PN 142 each with a 'C' or better; or consent of Program Coordinator.
Type: C

PN 140 Human Body Structure/Function 4-0-4
Students will develop a basic understanding of human anatomy and physiology essential for practical nursing. The course covers basic structure and function of each major body system, as well as common pathologies. Principles of nursing care to assist patients in preventing disease, maintaining wellness, and restoring health are also addressed. Course delivered in 16-week module (4 hours of lecture per week).
Requisite: Eligible for ENG 97 or completion of ENG 94 with a "C" or better and eligible for MATH 97 or completion of MATH 95 with a "C" or better; Concurrent enrollment in or completion of PN 101, PN 140, and PN 142 each with a " C" or better; or consent of Program Coordinator
Semester(s) Offered: Spring
Requisite: Program admission required; Eligible for ENG 101 and math placement into MATH 97 or higher; Concurrent enrollment in or completion of PN 100, PN 101, PN 140, and PN 142 each with a "C" or better; or consent of Program Coordinator.
Type: C

PN 142 Pharmacology and Dosage 3.5-0-3.5
This course provides an introduction into terminology, approved abbreviations, federal and state laws related to pharmacology, drug therapy, understanding correct administration of medications, and assessment of patient condition. In addition, the misuse and abuse of drugs including legal implications will be discussed. The student will learn commonly used drugs, drug classifications, action/physiological effect, interactions, side effects, generic versus brand name drugs contraindications, routes of administration, nursing implications, chemical compound of pharmacology and microbiology aspects of pharmaceuticals. Dosage calculations including PO, parenteral, intravenous, and pediatric calculations will be emphasized. Course delivered in 16-week module (3.5 hours of lecture per week).
Requisite: Eligible for ENG 97 or completion of ENG 94 with a "C" or better and eligible for MATH 97 or completion of MATH 95 with a "C" or better; concurrent enrollment in or completion of PN 101, PN 140, and PN 142 each with a " C" or better; or consent of Program Coordinator
Semester(s) Offered: Spring
Requisite: Eligible for ENG 101 and math placement into MATH 97 or higher; Concurrent enrollment in or completion of PN 100, PN 101, ad PN 140 each with a "C' or better; or consent of Program Coordinator.
Type: C

PN 152 Mental Health Nursing 2-2-3
This course prepares students for alterations in mental health, mental disorders and behaviors associated with mental health conditions. Emphasis is placed on knowledge of disease states, effective therapeutic communication, knowledge of available treatments and appropriate drug therapy. Clinical learning experiences will be completed in a lab and hospital setting. Course delivered in 8-week module (4 hours of lecture and 32 total clinical contact hours)
Semester(s) Offered: Summer
Requisite: Completion of PN 100, PN 101, PN 140, and PN 142 each with a "C" or better; Concurrent enrollment in or completion of PN 120 with a grade of "C" or better; or consent of Program Coordinator.
Type: C

PN 154 Obstetric and Newborn Nursing 3-1-3.5
This course provides an integrative, family-centered approach to the care of childbearing women and newborns. The course focuses on the utilization of the nursing process and critical thinking in the care of childbearing women, newborn and family. The course begins with obstetric care in pregnancy, labor and delivery and post birth and continues through the nursing care of a newborn through first year of life. Emphasis is placed on uncomplicated pregnancies and the normal newborn. The course includes lecture, laboratory and clinical care experiences. Clinical care experiences may occur in a hospital setting, healthcare office or simulated environment. Course delivered in 8-week module (6 hours of lecture and 2 hours of lab per week)
Semester(s) Offered: Fall
Requisite: Completion of PN 100, PN 101, PN 140, and PN 142 each with a "C" or better; Concurrent enrollment in or completion of PN 120 with a grade of "C" or better; or consent of Program Coordinator.
Type: C

PN 155 Pediatric Practical Nursing 2-1-2.5
This course deals with children from infancy through adolescence. Content focuses on the normal growth and development, common childhood illnesses and/or abnormalities for each major age group. It includes the impact of hospitalization on the child and family, and preventative care education. The nursing process is utilized to determine interventions in the care of the child and family. Concepts from nutrition and pharmacology are integrated.
Course delivered in 8-week module (4 hours of lecture and 2 hour of lab per week)
Semester(s) Offered: Fall
Requisite: Completion of PN 100, PN 101, PN 120, PN 140, and PN 142 each with a "C" or better, Concurrent enrollment in or completion of PN 154, PN 160, and PN 162 each with a grade of "C" or better, or consent of Program Coordinator.
Type: C

PN 160 Medical Surgical Nursing I 3-1-3.5
This course is designed to prepare the student with the knowledge, skills, and attitude needed to care for patients with alterations in medical and surgical health. Medical Surgical Nursing I will enhance the student's ability to apply the nursing process to various disease processes and effectively communicate while safely caring for patients. In this course, the etiology, pathophysiology, signs, symptoms, treatments and nursing considerations will be discussed on the following topics: Integumentary, Sensory, Blood, Immune, Gastrointestinal, Orthopedic and Oncology. The curriculum shall prepare the LPN to start peripheral intravenous therapy through catheter insertion into a peripheral vein. Course delivered in 8-week module (6 hours of lecture and 1 hour of lab per week.)
Semester(s) Offered: Fall
Requisite: Completion of PN 100, PN 101, PN 120, PN 140, and PN 142 each with a "C" or better, Concurrent enrollment in or completion of PN 154, PN 155, and PN 162 each with a grade of "C" or better, or consent of Program Coordinator.
Type: C

PN 161 Med Surg Clinical I 0-4-2
This course is the second clinical education experience that provides an opportunity for students to integrate previously learned didactic, laboratory, and clinical skills in situations simulating that of a Practical Nurse. This course is focused to prepare the student with the knowledge, skills, and attitude needed to care for patients with alterations in medical and surgical health. Students will apply the nursing process to various disease processes and effectively communicate while safely caring for patients. The curriculum shall prepare the LPN to start peripheral intravenous therapy through catheter insertion into a peripheral vein. This clinical internship provides students with a minimum of 72 clinical contact hours, including intravenous therapy observation exposure: regulating infusion rates, observing site reactions, discontinuation of infusions, adding pre-mixed antibiotic solutions and monitoring blood transfusions.
Semester(s) Offered: Fall
Requisite: None.
Type: O

PN 162 Medical Surgical Nursing II 3-1-3.5
The Medical Surgical Nursing II course is designed to enhance the student's ability to safely care for the medical/surgical patient using the nursing process and effective communication. The student will learn how to integrate their knowledge and skills obtained from Medical Surgical Nursing I with new content that is covered in this course. Health promotion, pathophysiology, signs and symptoms, nursing considerations and treatments will be discussed in the following disease processes, neurology, respiratory, cardiovascular, renal and endocrine. Course delivered in 8-week module (6 hours of lecture and 2 hours of lab per week.
Semester(s) Offered: Fall
Requisite: Completion of PN 100, PN 101, PN 120, PN 140, and PN 142 with a "C" or better, Concurrent enrollment in or completion of PN 152, PN 154, PN 155, and PN 160 each with a grade of "C" or better, or consent of Program Coordinator.
Type: C

PN 163 Med Surg Clinical II 0-4-2
This course is the third clinical education experience that provides an opportunity for students to integrate previously learned didactic, laboratory, and clinical skills in situations simulating that of a Practical Nurse. This course is designed to enhance the student's ability to safely care for the medical/surgical patient using the nursing process with professional communication. The student will integrate their knowledge and skills obtained throughout the PN program, including Medical Surgical Nursing and Clinical I. Students will practice health promotion, interpretation of pathophysiology including signs and symptoms, nursing considerations and treatments focusing on neurology, respiratory, cardiovascular, renal, and endocrine disease processes. This clinical internship provides students with a minimum of 72 clinical contact hours including intravenous therapy observation exposure: regulating infusion rates, observing site reactions, discontinuation of infusions, adding pre-mixed antibiotic solutions and monitoring blood transfusions.
Semester(s) Offered: Fall
Requisite: None.
Type: O

Precision Machining Technology

PMT 100 Precision Machining Intro 0.5-0-0.5
This course prepares students to begin a successful college career in the Precision Machining Technology program. Students will learn and understand all safety aspects for all the precision machining machinery. The course also teaches the students all the information and technology that is needed for the entire PMT program which includes work ethic expectations, clothing requirements, machinist tools, measurements, and computer uses. An understanding of the PMT program requirements and expectations will be presented in this course.
Requisite: None.
Type: C

PMT 101 Intro to the Machine Trades 1-4-3
Introduces hand tools, measuring tools, and layout procedures, then transitions into basic machine principals including safety, operation, and part set-ups for primary and secondary machining
Requisite: Concurrent enrollment in or completion of PMT 100.
Type: C

PMT 102 Intermediate Machining 1-4-3
The course continues with instruction in four machine operations (drilling, turning, milling, grinding). Thread cutting, advanced milling operations and the introduction of the surface grinder will be covered.
Requisite: Concurrent enrollment in or completion of PMT 101.
Type: C

PMT 110 Introduction to CNC Operations 1-2-2
This course starts with students learning all the safety aspects when operating a CNC machine. Students review measuring instruments used in the machining industry. The course then establishes an understanding of figuring cutting tool speeds and feed-rates used on CNC machines. Students receive instruction on positioning and jogging CNC machine tools. The course introduces students to set-up and operations of computerized numerical control machine tools, which includes the three-axis HAAS vertical machining center and two-axis HAAS lathe. Provides experience in setting work offsets, tool lengths and operating the HAAS CNC control. And full understanding of set-up and running a short production run on CNC equipment.
Requisite: Concurrent enrollment in or completion of PMT 100.
Type: C

PMT 111 CNC Milling 1-4-3
Students will learn to program, edit, and produce a finished part using a three-axis computerized numerical control vertical machining center. The course will start with basic programming methods and advance to more complex programming codes. Students will be responsible for setting-up and producing finish parts within the tolerances that are specified. The course will also prepare students to complete NIMS level 1 CNC milling certification.
Requisite: Concurrent enrollment in or completion of PMT 100, PMT 110.
Type: C

PMT 112 CNC Turning 1-2-2
Students will be provided with a blueprint and will be responsible for programming, editing, and choosing cutting tools to create a finished part on a computer numerical control turning center. Students will program, set-up and produce finished parts. The course includes HAAS conversational programming for producing fast finished parts along with all documentations needed for the parts produced. The course will also prepare students to complete NIMS level 1 CNC turning certification.
Requisite: Concurrent enrollment in or completion of PMT 100, PMT 110.

Type: C

PMT 114 Metallurgy I (Industrial) 2-0-2
This course is designed to give the student information concerning the various properties of metals. Materials will include critical temperatures, heat treatment, and alloying elements.
Requisite: None.
Type: C

PMT 124 Metrology 0.5-3-2
This course begins with the introduction of proper care and calibrations of precision measuring instruments. Students will learn how to use and read all the instruments used in the machining fields. The course will then focus on all different types of tool holders used in CNC machining along with types of cutting tools. This course also includes the use and design of jigs and fixtures used in the machine trades. Students will also learn the inspection process used in the inspection of machined parts.
Requisite: None.
Type: C

PMT 201 Advanced Machining 1-4-3
The course begins with reviewing fundamental layout tools, measuring instruments, machine set-ups, and machining processes. It then transitions into advanced machining processes of complex parts which require the use of all machining equipment. Students will also learn the theory of trigonometry in the machine trade, along with the grinding process required to manufacture a precision machine part.
Requisite: Concurrent enrollment in or completion of PMT 102.
Type: C

PMT 202 Advanced Metrology 0.5-3-2
Advanced training in precision measurement and inspection using modern technology like coordinate measurement machines, optical comparators, and precision digital measuring tools. Upon completion, the student should be able to inspect parts and determine if the parts are produced to manufactures standards.
Requisite: PMT 124.
Type: C

PMT 221 Intro to Master Cam 1-4-3
Using Mastercam the students will learn to draw prints with the aid of a computer. The students will learn how to dimension, edit, and modify drawings. These basic drawing skills will develop into drawing 3-D wire frame and solid model parts.
Requisite: None.
Type: C

PMT 222 Advanced Master Cam 1-4-3
Students will use Mastercam to design, draw, and produce a variety of parts using HAAS CNC equipment. This includes verifying and back plotting on the computer using Mastercam. The student will use Mastercam to develop the complex programs needed to produce a variety of parts on three-axis Haas mills and two-axis HAAS lathes.
Requisite: Concurrent enrollment in or completion of PMT 221.
Type: C

PMT 226 Geom Dim & Tolerancing (GD&T) 2-0-2
The course introduces students to GD&T dimensioning, concepts of size control and material tolerances. After defining the terminology used, geometric characteristics and symbols, the course proceeds to demonstrate how the geometric system works and applies to a machined part. Limits of size, MMC, LMC, position verification, product plans and virtual condition, along with the datum reference frame are covered during the course.
Requisite: None.
Type: C

PMT 231 Intro to Solid Works 1-4-3
Students will be introduced to Solid Works, setting up their systems, getting started using Solid Works, and customizing settings. The students will then transition to creating sketches for solid models, and finally create a finished drawing with dimensions.
Requisite: None.
Type: C

PMT 232 Advanced Solid Works 1-4-3
Students will continue using Solid Works to complete complex solid models. The students then will use their skills to create assemblies, sheet metal parts and use the advance features of Solid Works. This course also will use Solid Works to create all the paper work associated with prints needed in industry.
Requisite: PMT 231.
Type: C

PMT 234 3D Printing and Design 3-2-4
3D Printing is an ever-growing manufacturing method. This course introduces students to the two primary methods of polymer based printing currently used in industry. Upon completion, students will be able to identify styles of printers, different materials, and the appropriate applications of each. Students will use these print methods to create single parts as well as assemblies. Upon print completion, students will also finish process parts and remove support materials, as expected in an industrial setting.
Requisite: PMT 222, PMT 231, PMT 232 or PMT Associates Degree or department consent.
Type: C

PMT 240 NIMS Certification 1-4-3
This course prepares the student to take all Level One NIMS Certification tests. Starting with the basic layout procedures to creating a completed CNC machined part, this course offers the student nine certifications when completed. Students will need to create eight hands-on projects that will need to be inspected by industry and then take nine online tests to earn NIMS certification.
Requisite: Concurrent enrollment in or completion of PMT 201.
Type: C

PMT 250 Multi-Axis CNC Programming 1-4-3
This course is designed to give students an understanding of basic programming including sub-programming and set-up of multi-axis CNC machine tools. Students will learn to set up and program multi-axis computer numerical control machines, which include multiple vises, set ups, CNC tombstones, four-axis vertical mill, and five-axis vertical mill. The course includes advance set ups on CNC turning centers with bar feeding capabilities, live tooling and Y-axis capabilities. After learning set ups on all multi-axis machines, students will then write a basic CNC program to be run on the multi-axis CNC machines.
Requisite: Concurrent enrollment in or completion of PMT 110, PMT 111, PMT 112.
Type: C

PMT 262 Advanced Mastercam/Multi-Axis 1-4-3
Student will import solid models and design simple multi-axis parts into Mastercam CAD/CAM software to create programs for a variety of multi-axis CNC machine tools. The course includes creating tool paths, choosing correct cutting tools and posting a CNC program to be verified on a computer to creating a finished part on a CNC machine tool. Students will be responsible for setting-up and running CNC machines that include multi-vise set-ups, four-axis tombstone, and five-axis trunnion. Along with a CNC turning center with live tooling, Y-axis, and bar feeder. All parts produced will be programmed with Mastercam.
Requisite: Concurrent enrollment in or completion of PMT 221, PMT 222.
Type: C

PMT 268 Intro to Machining Automation 3-2-4
Automation in manufacturing is a growing component of machining, involving the use of robotics in new and exciting ways every year. This course introduces students to basic robotic features, movements, programming, and part manipulation. Students will use, program, and otherwise manipulate 6 axis robots to move, arrange, and sort objects using Fanuc and Universal Robotics (UR) equipment.
Requisite: PMT Associates Degree or department consent required.
Type: C

PMT 269 Advanced Machining Automation 3-2-4
This course builds on the knowledge gained in the intro class to produce a finished part. Students will design a part, create a CNC program that incorporated a CNC mill and CNC lathe. Once the part is programmed the students will be reasonable to design fixtures needed, gripper on the robot to move the parts. With all the parts needed to produce the part, students will then need to program the robots to produce the finish part.
Requisite: PMT 268.
Type: C

PMT 270 Introduction to Mold Making 3-2-4
This course introduces students to the theories needed in the molding industry. Students will learn the three major types of molds used in the mold industry plastics, die casting and rubber molds. Basic mold design will be introduced and all the components of a mold will be defined. Students will use a variety of machine tools to produce a basic injection mold.
Requisite: PMT Associates Degree or department consent required.
Type: C

PMT 272 Intro to Tool & Die Making 3-2-4
Students will be introduced to theories of diemaking principles covering die sets, die components, cutting and forming applications and material use. The class will be able to set up and identify different types of punch presses used in industry. After understanding the basics of stamping dies students will produce a basic single hit stamping die to produce a finished part.
Requisite: PMT Associates Degree or department consent required.
Type: C

PMT 274 Advanced Mold Making 3-2-4
This course is a continuation of the Introduction course with a focus of more advanced Mold making. Producing an advanced injection Mold will be the main focus of this course using of Mastercam CAD/CAM, CNC Machines and conventional machines to make all the components. Assembling the injection Mold and producing finished parts will be required to complete this course.
Requisite: PMT 270, PMT associates degree or department consent required..
Type: C

PMT 276 Advanced Tool and Die Making 3-2-4
Students will continue learning about more advanced stamping and forming die principles covering automatic feeds, scrap strips and part layout, compound dies, dram dies and progressive dies. Students will have a good understanding of all components in all stamping dies and be able to build all the components to produce a stamping die. The students will design and build a sample progressive stamping/forming die.
Requisite: PMT 272, PMT Associates Degree or department consent required..
Type: C

PMT 285 Advanced Multi Axis I 3-2-4
Students will continue learning about Multi Axis machining. The Class will focus on virtual setups, 3+1 programming with a focus on tombstones, 3+2 programming, tooling, and simulations to ensure successful programming of complicated parts. Students will have a better understanding of the machining workflow to machine parts in one setup dealing with difficult part features and finish quality due to resonance of the parts.
Requisite: PMT Associates Degree or department consent required.
Type: C

PMT 286 Advanced Multi Axis II 3-2-4
Students will continue learning about Multi Axis machining. The class will focus on virtual setups, fixturing, and simultaneous 5 axis machining of complicated parts. Students will have a better understanding of the machining workflow to machine parts in one setup dealing with difficult part features and finish quality due to resonance of the parts. Projects in this class will feature simultaneous 5 axis machining.
Requisite: PMT 285, PMT Associates Degree or department consent required..
Type: C

PMT 299 Problems in Precision Machining Technology Variable up to (4)-(8)-(4)
This course is designed to familiarize students with special topics or problems in the Precision Machining Technology field, and to provide them with the knowledge and ability to deal effectively with those topics or problems in relation to their specific requirements.
Requisite: None.
Type: C

Psychology

PSYC 151 General Psychology 3-0-3
General Psychology involves the study of human behavior with special emphasis on neuropsychology, learning, memory, development, psychological disorders and individual differences in personality; emphasis on the scientific nature of psychological investigations; and discussion of research methods and the relations of their results to daily life and everyday problems.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-S6 900

PSYC 200 Applied Psychology 3-0-3
The study of the practical application of scientific, psychological principles of everyday living. Emphasis is on applying the principles of motivation, psychological measurement, mental health, consumerism, advertising, learning, management, crime and law enforcement, and stress management.
Semester(s) Offered: Fall, Spring
Requisite: PSYC 151.
Type: T

PSYC 210 Life-Span Development 3-0-3
This is an introductory course that explores significant events in people's lives as they move from infancy and early childhood into adolescence, early and middle adulthood, and late adulthood. The course presents up-to-date research in the biological, cognitive, psychological, and socioemotional processes of human development. The study of life-span is intriguing because each of us, and everyone we care about, is constantly developing.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-S6 902

PSYC 223 Industrial Organizational Psychology 3-0-3
This course serves as an introduction to industrial organizational psychology. Psychological theory and research relating to how humans interact with one another within the workplace will be integrated and applied to various organizational settings.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T

PSYC 225 Human Sexuality 3-0-3
This course examines sexuality from biological, social and psychological perspectives. Topics include the research methods for human sexuality, biological foundations of sexuality, the development of loving relationships, legal issues related to sexuality such as rape, domestic violence, incest, pornography and prostitution, health issues such as sexually transmitted infections, pregnancy, and contraception, and current societal debates related to sexual issues such as sexual orientation, gender identity, commercial sex, sex education and the implications of new reproductive technologies.
Semester(s) Offered: Fall, Spring
Requisite: PSYC 151.
Type: T

PSYC 250 Child Development 3-0-3
Child development studies theoretical and practical uses of child growth from conception to age thirteen. Included are discussion of major theoretical approaches to understanding children; genetic and environmental influences; as well as physical, cognitive and social/emotional growth factors. Additional topics include parenting issues such as child-rearing techniques, school issues, and divorce.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-S6 903

PSYC 251 Adolescent Development 3-0-3
A study of contemporary adolescence focusing upon biological, cognitive, social and emotional developmental characteristics and today's influences upon them. Topics will vary widely from traditional theoretical description and explanations of adolescence to discussions of media, peers, problems in adolescence, etc.
Semester(s) Offered: Fall, Spring

Requisite: Eligible for ENG 101.
Type: T, IAI-S6 904

PSYC 252 Educational Psychology 3-0-3
Educational psychology is a survey course introducing students to major areas related to teaching and learning. It explores motivation, intelligence, creativity, evaluation, measurement, growth and development learning perspectives throughout the lifespan, with an emphasis on developmental theory and practice across childhood and adolescence. It focuses on the learning process and the impact of culture on learning styles. It may include observational experiences. Students may not receive credit for both ED 252 and PSYC 252.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T

PSYC 253 Adult Development and Aging 3-0-3
An introduction to the developmental and aging processes occurring during early, middle, and late adulthood. The biological, psychological, and sociological aspects of adult development and aging will be reviewed. Strong emphasis will be placed on how the developmental processes can be influenced by the individual to enhance successful aging.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T, IAI-S6 905

PSYC 254 Death and Dying 3-0-3
This course is intended to provide an investigation of issues relevant to the study of death and dying, primarily from a psychological perspective. One primary assumption in death education is confronting, learning about, and discussing death in an open forum leads to greater acceptance. The course centers on key aspects of death and dying, including living with a terminal illness, the psychological process of dying, and grief and bereavement.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T

PSYC 259 Fundamentals of Clinical Psychology 3-0-3
An introduction to the scientific study of psychological disorders and their impact on society. Students explore the continuum between typical and atypical behavior using the DSM-5-TR framework for classification. The course examines the biological, psychosocial, and sociocultural causes of mental illness, alongside modern research methods (including case study, correlation, experiment), assessment techniques, and evidence-based approaches to treatment and prevention.
Semester(s) Offered: Fall, Spring, Summer
Requisite: PSYC 151.
Type: T, IAI-PSY 905

PSYC 265 Psychology of Women 3-0-3
This course examines sex and gender from biological, sociocultural, and psychological perspectives. A central goal is to explore social and political disadvantages resulting from the intersection of gender, race and ethnicity. Topics will include 1) research methods, 2) gender differences, biases, and stereotypes, 3) gender development, 4) mental and physical health issues for women, 5) women's role in the media and workplace, 6) the relationships, sexuality, and victimization of women.
Semester(s) Offered: Intermittently
Requisite: PSYC 151.
Type: T

PSYC 266 Cognitive Psychology 3-0-3
Cognitive psychology exerts a strong influence on psychology. It is the study of the human mind in all its complexity and significance. It includes the study of the human mental processes and their role in thinking, feeling, and behaving. Perception, memory, acquisition of knowledge and expertise, comprehension and production of language, problem solving, creativity, decision making, and reasoning are a few categories that are studied in cognitive psychology. Cognitive neuroscience, which is the scientific study of the relationships between cognitive psychology and neuroscience, is also studied in this course.
Semester(s) Offered: Intermittently
Requisite: PSYC 151.
Type: T

PSYC 270 Health Psychology 3-0-3
This course is a detailed overview of health psychology. The course will cover theoretical models of health behavior, health-compromising behaviors, patient provider relations, psychological issues in preventative health behaviors, and the psychological issues involved in the management of chronic and terminal illness.
Semester(s) Offered: Intermittently
Requisite: PSYC 151.
Type: T

PSYC 288 Biological Psychology 3-0-3
Biological psychology is the study of the physiological, evolutionary, and developmental mechanisms of behavior and experience. Students enrolled in this course will learn about major issues as they relate to brain and behavior. Specifically, this course will cover the anatomy and functions of the brain as it relates to concepts such as genetics, drug use, intelligence, disorders of movement and brain damage and what makes one a morning person versus an evening person. This course is an excellent course for any student interested in learning about disorders such as narcolepsy, attention deficit disorder, substance abuse and addiction or psychological disorders as each relates to the brain.
Semester(s) Offered: Intermittently
Requisite: PSYC 151.
Type: T

PSYC 295 Social Psychology 3-0-3
This course examines the ways in which people think about, influence, and relate to one another, or how the individual affects and is affected by his or her social world. A central goal of the course is to improve human relations by focusing on social and political disadvantages of race, ethnicity, gender and other issues. Overall, the course will emphasize current theory and research in social psychology, as well as the development of critical thinking skills that can be applied to both theory and research methodology.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-PSY 908, IAI-S8 900

PSYC 299 Problems In Psychology Variable up to (3)-0-(3)
A course designed to present problems and topics in psychology through readings, individual research and discussions. Problems and topics vary each semester. In-depth study of such topics as learning, motivation and personality theories. This course may be taken more than once if different topics are considered.
Semester(s) Offered: Intermittently
Requisite: PSYC 151.
Type: T

Radiologic Technology

RT 100 Radiologic Technology I 2.5-0-2.5
This course provides a general orientation to the radiologic technology profession in health care. Topics presented are the history of radiologic technology, department organization, medical ethics, professional conduct, patient care, radiographic terminology, contrast media administration, and professional organizations and accreditation. Emphasis is placed on anatomy, physiology and radiographic positioning of the chest, abdomen, upper and lower extremities and an introduction to cross sectional anatomy.
Semester(s) Offered: Summer
Requisite: Program admission, concurrent enrollment in or completion of RT 101 with a grade of "C" or better.
Type: C

RT 101 Radiographic Positioning I 3.5-0-3.5
Designed to provide the student radiographer with the opportunity to apply the principles of radiographic equipment operations, digital processing, radiation protection and radiographic image evaluation. Emphasis is placed on positioning performance of the radiographic examinations specified in RT 100, utilizing the energized lab and phantom patient.
Semester(s) Offered: Summer
Requisite: Program admission, concurrent enrollment in or completion of RT 100 with a grade of "C" or better.
Type: C

RT 102 RT Math Computations 1-0-1
This course is for students who will use mathematics for the calculations of physics formulas used by radiologic technology. This course covers a review of basic mathematical principles of addition, subtraction, multiplication and division of whole numbers, mixed numbers, fractions, decimals, ratio, proportion, basic principles of algebra and percentages, exponents, scientific

notation, and metric conversions.
Semester(s) Offered: Summer
Requisite: Program admission, concurrent enrollment in or completion of RT 100 and RT 101, each with a grade of "C" or better.
Type: C

RT 110 Radiologic Technology II 3-0-3
Basic principles of radiographic anatomy and positioning procedures of the digestive, biliary and urinary systems, vertebral column, shoulder girdle, and pelvic girdle. Included is the introduction of contrast media, patient care practices, and effective utilization of radiographic equipment.
Semester(s) Offered: Fall
Requisite: RT 100, RT 101 each with a grade of "C" or better.
Type: C

RT 111 Radiographic Positioning II 4-0-4
Designed to provide the student radiographer with the opportunity to apply the principles of radiographic positioning of the examinations specified in RT 110, utilizing the energized lab and phantom patient.
Semester(s) Offered: Fall
Requisite: RT 100, RT 101 each with a grade of "C" or better.
Type: C

RT 112 Clinical Experience I 0-16-3
Supervised clinical experience is assigned at a medical facility to meet the competency requirements in radiographic principles and procedures as specified.
Semester(s) Offered: Fall
Requisite: RT 100, RT 101 each with a grade of "C" or better.
Type: C

RT 131 X-Ray Physics I 4-0-4
An introductory course to X-ray physics including topics on the structure of matter, X-ray production, the X-ray tube, X-ray emission, electromagnetic energy, radiation safety, X-ray interaction with matter, digital radiography and radiographic technique.
Semester(s) Offered: Fall
Requisite: RT 100, RT 101 each with a grade of "C" or better.
Type: C

RT 150 Radiologic Technology III 3-0-3
Basic principles of radiographic anatomy and positioning procedures of the cranium, facial bones, paranasal sinuses and bony thorax. Included is the introduction of special procedures, usage of specialized equipment and contrast media. Emphasis is placed upon trauma, mobile and surgical radiography, cross sectional anatomy, and imaging modalities.
Semester(s) Offered: Spring
Requisite: RT 110 with a grade of "C" or better.
Type: C

RT 151 Radiographic Positioning III 4-0-4
Designed to provide the student with the opportunity to apply the principles of radiographic positioning of the cranium, facial bones, paranasal sinuses and bony thorax utilizing the energized lab and phantom patient. Instruction and experiments demonstrating technical factors influencing radiographic quality are implemented.
Semester(s) Offered: Spring
Requisite: RT 111 with a grade of "C" or better.
Type: C

RT 152 Clinical Experience II 0-16-3
Supervised clinical experience is assigned at a medical facility to meet competency requirements in radiographic principles and procedures as specified. Practical applications presented in RT 100,101, 110 and 111 are included.
Semester(s) Offered: Spring
Requisite: RT 112 with a grade of "C" or better.
Type: C

RT 160 Clinical Experience III 0-16-3
Supervised clinical experience is assigned at a medical facility to meet competency requirements in radiographic principles and procedures presented in the first year. (30 clinical hours per week)
Semester(s) Offered: Summer
Requisite: BIOL 105, RT 150, RT 151, RT 180 each with a grade of "C" or better and completion of or concurrent enrollment in HRO 100 with a grade of "C" or better.
Type: C

RT 180 X-Ray Physics II 4-0-4
A continuation of X-ray physics including electricity, magnetism, electromagnetics, the X-ray circuit, X-ray production, fluoroscopy, image acquisition, image evaluation, radiographic artifacts and scatter radiation.
Semester(s) Offered: Spring
Requisite: RT 131 with a grade of "C" or better.
Type: C

RT 230 Pathology for Radiographers 1-0-1
This course is designed to help student radiographers appreciate the relationship of diseases visualized on radiographs. Topics covered are pathological terminology, cross sectional anatomy, and the systems of the human body.
Semester(s) Offered: Fall
Requisite: RT 160 with a grade of "C" or better.
Type: C

RT 241 Clinical Experience IV 0-15-3
A hospital affiliated course designed to increase the students efficiency in performing routine and special procedure radiographic exams.
Semester(s) Offered: Fall
Requisite: RT 160 with a grade of "C" or better.
Type: C

RT 242 Clinical Modalities I 0-4-1
In radiation therapy, the students observe treatment planning, treatments, follow-up exams and become familiar with the equipment utilized. In nuclear medicine, the students observe preparation and administration of radiopharmaceuticals, examinations performed and become familiar with the equipment utilized. In sonography students observe the use of high-frequency sound waves to create images.
Semester(s) Offered: Fall
Requisite: RT 160 with a grade of "C" or better.
Type: C

RT 244 Radiobiology 4-0-4
A study of the principles of radiation biology, radiation protection, cellular response, systematic response, the early and late effects of radiation exposure, and the regulations regarding ionizing radiation hazards.
Semester(s) Offered: Fall
Requisite: RT 160 with a grade of "C" or better.
Type: C

RT 261 CT Anatomy & Patient Care 2.5-0-2.5
This course is the first of two which collectively meet the Structured Education Requirements for Computed Tomography of the ARRT. These courses must be completed within the 24 month period immediately prior to submission of application for certification and registration in CT. Students will identify human anatomy as seen in the cross sectional view as well as discuss the imaging characteristics seen in common pathological conditions. Review of patient care during CT examination will include: symptoms, patient history, contrast media, patient safety and protocols used in CT. Student must be RT(R) Registered.
Semester(s) Offered: Fall
Requisite: RT (R) Registered, Concurrent enrollment in RT 262 or proof of ARRT clinical exams completed.. Department consent
Type: C

RT 262 CT Experience Internship 0-7.5-1.5
Supervised CT clinical experience is assigned at a medical facility to meet competency requirements in Computed Tomography principles and procedures. The clinical portion of the Computed Tomography Program is designed to prepare students to be competent, efficient working technologists. Upon successful completion of the CT clinical course, students will work toward completing the examination requirements for the ARRT. Once all 120 hrs/125 exams are completed students will be eligible to sit for the CT post-primary certification exam. Students are responsible for completing specified competencies, logging procedures on-line and fulfilling ARRT requirements.
Semester(s) Offered: Fall
Requisite: Concurrent enrollment in or completion of RT 261..
Type: C

RT 263 CT Physics & Procedures 2.5-0-2.5
This course is the second of two which collectively meet the Structured Education Requirements for Computed Tomography of the ARRT. These courses must be completed within the 24 month period immediately prior to submission of application for certification and registration in CT. The Physics portion will provide the radiographer with knowledge of CT system operation and components, image processing and display, image quality, and artifacts. The Procedures portion will cover CT scan preparation, artifacts, contrast media, safety, positioning & protocols for the head, spine, chest, abdomen, pelvis and limbs.
Semester(s) Offered: Fall
Requisite: Completion of RT 261 with a "C" or better..
Type: C

RT 291 MRI Patient Care & Procedures 2.5-0-2.5
This course is the first of two which collectively meet the ARRT Structured Education Requirements for Magnetic Resonance Imaging. These courses must be completed within 24 months prior to submission of application for certification in MR. This course focuses on MRI scanning procedures, applications, sectional anatomy, and pathology. Students will learn scanning parameters and patient care techniques relevant to specific body sections. Patient Interactions and Management will be emphasized.
Requisite: Registered RT (R), Concurrent enrollment in RT 292 or proof of ARRT clinical exams completed.
Type: T

RT 292 MRI Clinical Internship 0-6-3
Supervised MRI clinical experience is assigned at a medical facility to meet competency requirements in Magnetic Resonance Imaging principles and procedures. The clinical portion of the MRI certificate is designed to prepare students to be competent, efficient working technologists. Upon successful completion of the MRI clinical course, students will work toward completing the examination requirements for the ARRT. Once all 125 repetitions are completed, students will be eligible to sit for the MRI post-primary certification exam. Students are responsible for completing specified competencies logging procedures online, and fulfilling ARRT requirements.
Requisite: Registered RT (R), Concurrent enrollment in RT 292 or proof of ARRT clinical exams completed.
Type: C

RT 293 MRI Safety & Image Production 2.5-0-2.5
This course is the second of two which collectively meet the ARRT Structured Education Requirements for Magnetic Resonance Imaging. These courses must be completed within 24 months prior to submission of application for certification in MRI. This course focuses on principles of magnetic resonance imaging, imaging sequences and parameters. Topics of discussion will include imaging equipment, quality assurance, safety considerations, data acquisition, instrumentation, image reconstruction, and artifacts.
Requisite: Registered RT (R), Concurrent enrollment in RT 292 or proof of ARRT clinical exams completed.
Type: C

RT 296 IT for Radiographers 1-0-1
This class covers the technology related to digital radiography in healthcare. It includes the basic concepts image acquisition for the creation of electronic images that can be displayed, viewed, transmitted, achieved, and retrieved. Also addressed in this class is computer applications, quality assurance, image quality, radiology information systems and PACS/MIMPS as it relates to digital imaging.
Semester(s) Offered: Spring
Requisite: RT 230, RT 244 each with a grade of "C" or better.
Type: C

RT 297 Radiologic Technology Review 4-0-4
A continuation of theory and practice in radiographic procedures, radiation safety, image production and patient care.
Semester(s) Offered: Spring
Requisite: RT 230, RT 244 each with a grade of "C" or better.
Type: C

RT 298 Clinical Modalities II 0-4-1
In CT, the student observes large series of two-dimensional x-rays images taken around a single axis of rotation to visualize various structures. In MRI, a student observes how imaging is performed with the use of radio frequency signals and a magnetic field. In interventional radiology, a student observes minimally invasive, targeted treatments performed using imaging for guidance.
Semester(s) Offered: Spring
Requisite: RT 241, RT 242 each with a grade of "C" or better.
Type: C

RT 299 Clinical Experience V 0-15-3
A hospital affiliated course in which the student performs routine, advanced and special radiographic procedures.
Semester(s) Offered: Spring
Requisite: RT 241, RT 242 each with a grade of "C" or better.
Type: C

Respiratory Care

RC 102 Cardiopulmonary Anatomy and Physiology 3-0-3
This course involves an in-depth study of the anatomy and physiology of the respiratory and cardiovascular systems, including aspects of the central nervous system. Diffusion, gas transport, ventilation and perfusion are closely examined.
Semester(s) Offered: Fall
Requisite: Program admission or Program Coordinator Permission.
Type: C

RC 103 Applied Science 3-0-3
Provides the student with a foundation in the basic sciences relevant to respiratory care. Areas covered include chemistry, physics, microbiology, computers, and mathematics/algebra concepts as related to the practice of respiratory care.
Semester(s) Offered: Fall
Requisite: Program admission or Program Coordinator Permission.
Type: C

RC 104 Practices and Procedures 3-4-5
Provides classroom instruction and laboratory practice for the equipment used to administer general respiratory care. Classroom instruction and laboratory practice is provided for many general respiratory care procedures, as well as certification in BLS.
Semester(s) Offered: Fall
Requisite: Program admission, HRO 100, BIOL 105 each with a grade of "C" or better, concurrent enrollment in or completion of RC 105 with a grade of "C" or better.
Type: C

RC 105 Patient Assessment 2-2-3
This course provides the student with knowledge of how patient assessment procedures are performed. Information gathered from these assessments as well as from diagnostic tests, and laboratory assessment is related to the patient's health status and response to treatment. This course also includes obtaining, analyzing, and basic interpretation of blood gases as well as blood gas analyzer function and the quality assurance standards for blood gas analyzers. Note: This course requires one clinical shadow day. Date, time and location will be announced.
Semester(s) Offered: Fall
Requisite: HRO 100, BIOL 105 each with a grade of "C" or better, concurrent enrollment in or completion of RC 104 with a grade of "C" or better.
Type: C

RC 110 Cardiopulmonary Pathology 3-0-3
This course provides an overview of diseases of the cardiopulmonary and related systems requiring medical and/or surgical intervention. Each pathological process is discussed with regard to etiology, diagnosis, treatment, and prognosis. An overview of pulmonary function testing and a more in-depth discussion of acid-base balance is also provided.
Semester(s) Offered: Spring
Requisite: RC 102 with a grade of "C" or better. Department consent
Type: C

RC 111 Respiratory Care Pharmacology 3-0-3
Provides an introduction to the theory and use of medications, with emphasis on those used in cardiorespiratory care. Content will include weights, measures, actions, indications, contraindications and hazards of drugs. Normal physiology and pathophysiology are reviewed to clarify the role of medications in the treatment of disease processes.
Semester(s) Offered: Spring

Requisite: RC 103 with a grade of "C" or better. Department consent
Type: C

RC 112 Adult Airway and Ventilators 3-4-5
Provides a continuation of classroom instruction and laboratory practice for respiratory care procedures, including airway management and noninvasive positive pressure ventilation. The course concludes with an introduction to continuous mechanical ventilation and critical care procedures.
Semester(s) Offered: Spring
Requisite: Concurrent enrollment in or completion of RC 110, RC 111, RC 113 each with a grade of "C" or better; RC 102, RC 103, RC 104, RC 105 each with a grade of "C" or better.
Type: C

RC 113 Clinical Practice I 0-8-4
This course provides under supervision: observation, practice, and application of patient assessment and general respiratory care procedures and airway management in the clinical setting, with an introduction to mechanical ventilation and critical care procedures toward the end of the course. Note: This course requires clinical practice each week. Dates, times and locations will be announced.
Semester(s) Offered: Spring
Requisite: RC 102, RC 103, RC 104 and RC 105 each with a grade of "C" or better; concurrent enrollment in or completion of RC 110, RC 111, RC 112 each with a grade of "C" or better.
Type: C

RC 114 Ped & Neonatal RC 1.5-2-2.5
This course will begin with an overview of pediatric respiratory care; including assessment, monitoring, basic therapies, non-invasive, and mechanical ventilation of the pediatric patient as well as the etiology, pathophysiology, diagnosis, and management of pediatric diseases. The course will end with information related to fetal development, neonatal assessment, and neonatal resuscitation. Information will include airway management, basic respiratory therapy including oxygen therapy, transcutaneous monitoring, capillary sticks, and mechanical ventilation of the neonatal patient.
Semester(s) Offered: Summer
Requisite: RC 110, RC 111, RC 112, RC 113 each with a grade of "C" or better; concurrent enrollment in or completion of RC 115 with a grade of "C" or better.
Type: C

RC 115 Clinical Practice II 0-4-2
This course continues to provide clinical experience in the intensive care unit to gain more experience with mechanical ventilation and critical care procedures. The course will focus on advanced ventilator management including assessing the critically ill patient, adjusting the ventilator, ventilator graphics, and troubleshooting. The student will gain more experience with critical care skills such as airway management and arterial blood gas analysis. NOTE: This course requires clinical practice each week. Dates, times and locations will be announced.
Semester(s) Offered: Summer
Requisite: RC 110, 111, 112, 113 each with a grade of "C" or better, concurrent enrollment in or completion of RC 114 with a grade of "C" or better.
Type: C

RC 203 Adult Critical Care 3-4-5
This course provides a continuation and completion of classroom instruction and laboratory practice for mechanical ventilatory support and its use in respiratory care. Specific areas of interest include improving ventilation and oxygenation of the ventilated patient, ventilator graphics, assessment of the critically ill patent, and troubleshooting the ventilator. Then the course continues with ACLS certification with extensive review of electrocardiogram technique and interpretation, cardiac pharmacology, as well as myocardial infarction and stroke care. The course will conclude with a more in-depth study of pulmonary function testing in the classroom and lab.
Semester(s) Offered: Fall
Requisite: RC 114, RC 115 each with a grade of "C" or better, concurrent enrollment in or completion of RC 204 with a grade of "C" or better.
Type: C

RC 204 Clinical Practice III 0-8-4
This course provides under supervision: observation, practice, and application of respiratory care procedures to critically ill adults and pediatric patients. The course includes continuous mechanical ventilation and advanced patient assessment and monitoring procedures of critically ill adult and pediatric patients as well as patients in alternate settings including bronchoscopy. NOTE: This course requires clinical practice each week. Dates, times and locations will be announced.
Semester(s) Offered: Fall
Requisite: RC 114, RC 115 each with a grade of "C" or better, concurrent enrollment in or completion of RC 203 with a grade of "C" or better.
Type: C

RC 205 Hemodynamics & RC Specialties 3-0-3
The course provides information about respiratory care in alternate sites, cardiopulmonary rehabilitation, polysomnography, patient and community education, assessment of hemodynamics, transport inside and outside of the hospital, nutrition and metabolic testing, legal and moral ethics of health care, and health care management and reimbursement. The course will also provide career assistance such as interview skills and resume design.
Semester(s) Offered: Spring
Requisite: RC 203, RC 204 each with a grade of "C" or better; concurrent enrollment in or completion of RC 206, RC 207 each with a grade of "C" or better.
Type: C

RC 206 Clinical Practice IV 0-8-4
This course provides under supervision: observation, practice, and application of respiratory care procedures to critically ill neonatal patients, non-invasive CPAP, continuous mechanical ventilation of the new born, rehabilitation of respiratory care patients, care and testing of patient's with sleep disorders, testing of patients' pulmonary function, long term ventilator care facilities, cardiac stress testing and electrocardiography, and the care of respiratory care patients in alternate settings. Note: This course requires clinical practice each week. Dates, times and locations will be announced.
Semester(s) Offered: Spring
Requisite: RC 203, RC 204 each with a grade of "C" or better; concurrent enrollment in or completion of RC 205, RC 207 each with a grade of "C" or better.
Type: C

RC 207 Respiratory Care In Review 4.5-0-4.5
This format allows for a variety of pertinent, current respiratory care and health care topics to be presented as needed. Set topics will include preparation for the National Board for Respiratory Care's NBRC Therapist Multiple Choice Exam and Clinical Simulation Exam, as well as exercises is critical thinking and review of clinical practice guidelines and therapist driven protocols.
Semester(s) Offered: Spring
Requisite: RC 203, RC 204 each with a grade of "C" or better; concurrent enrollment in or completion of RC 205, RC 206 each with a grade of "C" or better.
Type: C

Russian

RUSS 101 Elementary Russian I 4-0-4
This introductory language course focuses on establishing a solid foundation in the four basic skill areas of reading, writing, listening comprehension and speaking in Russian. Students are also introduced to the history and cultures of the Russian-speaking world.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

RUSS 102 Elementary Russian II 4-0-4
This introductory language course is a continuation of RUSS 101 and focuses on establishing a solid foundation in the four basic skill areas of reading, writing, listening comprehension and speaking in Russian. Students are also introduced to the history and cultures of the Russian-speaking world.
Semester(s) Offered: Intermittently
Requisite: RUSS 101.
Type: T

Science

SCIE 101 General Physical Science 3-2-4
A one-semester course offering an understanding of our physical environment. Topics from astronomy, physics, chemistry and earth science are introduced and examined from their practical viewpoints. The scientific method is stressed

in understanding natural phenomena.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Math placement into MATH 97 or higher; Eligible for ENG 101 .
Type: T, IAI-P9 900L

SCIE 110 Investigations in Physical Science 2-4-4
This is a beginning course in physical science featuring laboratory experiments and group discussion. The scientific method is stressed in understanding natural phenomena. This course is designed for students who learn better with a hands-on approach, students who need to fulfill a general education physical science requirement, and education majors. Topics are chosen from physics, chemistry, astronomy, and earth science. Major topics include: properties of matter, properties of light rays, and motion of astronomical objects. This is a general education physical science course. It doesn't not meet major requirements for most students in math, science, engineering, or pre-health programs.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

Sign Language Studies Interpreter

SLS 100 Non-Verbal Communication 2-0-2
This course compares and contrasts non-verbal behavior and actions to speech and signs. Facial expressions, posture, movement, gestures will be examined and how the literal use of words/signs don't always convey the meaning of the message. Students learn to use pantomime versus actual signs depending on the signing ability of the deaf or hard of hearing individual.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: C

SLS 101 American Sign Language I 5-0-5
In depth and eventual total immersion exposure to American Sign Language for the development of beginning-level communication skills used with deaf persons. Focus is on building sign vocabulary, fingerspelling, grammar and syntax rules, non-manual markers, appropriate hand shapes and movement, use of personal space and the development of sensitivity and awareness through required socialization with the deaf community. (Fall only)
Semester(s) Offered: Fall
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: C

SLS 102 American Sign Language II 5-0-5
Continued development of intermediate-level sign language communication skills as utilized in interaction by deaf persons. Emphasis given to comprehension, use of classifiers, locatives and production skills within a total immersion sign language environment. Linguistic and cultural features presented in the context of language learning experiences.
Semester(s) Offered: Spring
Requisite: SLS 101 with a grade of "C" or better; concurrent enrollment in or completion of SLS 100 and SLS 125 with a grade of "C" of better.
Type: C

SLS 103 Conversational Sign Language I 2-2-3
This course is designed to give basic conversational strategies in American Sign Language. Students will learn introductory vocabulary and key phrases. This course is targeted to students who have no prior knowledge of the language. This course is not part of the Sign Language Interpreting Program degree curriculum but serves as a great starting point in sign language learning.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T

SLS 105 Field Experiences 1-2-2
During this course, students will be paired with/mentored by a deaf or hard of hearing individual to expose students to the daily experience of someone who is deaf or hard of hearing. Students will attend deaf socials and club events, informal coffee chats, home parties, etc. During these experiences, students will have the opportunity to develop practical sign vocabulary and increase their comfort level when interacting with individuals who are deaf or hard of hearing. A minimum of 30 hours of involvement with the deaf community is required. (Spring only)
Semester(s) Offered: Spring
Requisite: Concurrent enrollment in or completion of SLS 102 with a grade of "C" or better.
Type: C

SLS 110 Deaf Studies/Culture 3-0-3
This course is an introduction to the studies of the language, culture and community of deaf people. Topics include deaf history, education, sociology, language, legal issues, art and literature, audism, services for the deaf, organizations, assistive technology devices, and the nature of deafhood. Several controversial issues will be analyzed such as oralism, methods of deaf education, signing systems, cochlear implants, and student protest movements.
Semester(s) Offered: Fall, Spring
Requisite: Eligible for ENG 101 or concurrent enrollment in ENG 99.
Type: C

SLS 120 ASL Linguistics I 3-0-3
An introductory course that focuses on the study of ASL and English phonology, morphology, syntax, semantics, rules of classifier systems, ASL storytelling, and language variation, with an introduction to discourse analysis and language in context. The course is built around discussion of readings, in class exercises and video projects to allow students to apply concepts that have been discussed. (Spring only)
Semester(s) Offered: Spring
Requisite: ENG 101 with a grade of "C" or better, concurrent enrollment in or completion of SLS 102 with a grade of "C" or better.
Type: C

SLS 125 ASL Fingerspelling and Numbers 1-0-1
This course is designed to assist students in the development of expressive and receptive fingerspelling and numbering system skills embedded with ASL conversational phrases and stories.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

SLS 203 American Sign Language III 4-0-4
Continued exposure to ASL, within a total immersion sign language environment, allowing further study and development of expressive and receptive communication skills. Emphasis will be on the development of sign vocabulary within expanded stories and disclosure. Linguistic and cultural features presented in the context of language learning experiences. (Fall only)
Semester(s) Offered: Fall
Requisite: SLS 102 with a grade of "C" or better.
Type: C

SLS 205 Interpreting I 3-0-3
Students develop the skill of simultaneously interpreting ASL and Contact Sign into an equivalent message in spoken English. Students will learn the basics in the sign to voice process, progressing from sentential to textual formats working with comprehension, appropriate English word choices, vocal inflection, and English structure. Coursework will consist of lecture and discussion, videotaped projects and in class exercises and activities for skill enhancement. (Spring only)
Semester(s) Offered: Fall
Requisite: SLS 105 with a grade of "C" or better; concurrent enrollment in or completion of SLS 203, SLS 210 each with a grade of "C" or better.
Type: C

SLS 206 Interpreter Principles & Practices 3-0-3
This is a survey course that is designed to introduce students to contemporary theories regarding interpretation and the world of work of interpreters. Students will become familiar with the specialized jargon used within the field of interpretation to describe various aspects of the work and the protocol that influences interpretation work in different settings. Ethical standards associated with interpretation will be introduced and applied to a variety of work situations. (Fall only)
Semester(s) Offered: Fall
Requisite: SLS 105, SLS 120 each with a grade of "C" or better; concurrent enrollment in or completion of SLS 203 with a grade of "C" or better.
Type: C

SLS 210 ASL Linguistics II 3-0-3
Students continue the study of ASL and English linguistics, building on information introduced in SLS 120, through study of semantics, pragmatics, turn-taking, discourse analysis, and language in context. The primary focus of this course is translation through discourse analysis and techniques of rephrasing and restructuring meaning in ASL and in English. Power dynamics, language in context and turn-taking in interpreted settings will also be discussed in relation to the interpreter's role. (Fall only)
Semester(s) Offered: Fall
Requisite: SLS 120 with a grade of "C" or better, concurrent enrollment in or completion of SLS 203 with a grade of "C" or better.
Type: C

SLS 220 Interpreting II 3-0-3
Students build upon skills learned in SLS 205, with a focus on simultaneous interpretation of unrehearsed texts from English to ASL. Coursework will consist of videotaped projects, in class exercises, activities and individual work for skill enhancement. (Spring only)
Semester(s) Offered: Spring
Requisite: SLS 205 with a grade of "C" or better.
Type: C

SLS 225 ASL to English Interpreting 3-0-3
Students develop the skill of simultaneously interpreting ASL and Contact Sign into an equivalent message in spoken English. Students will learn the basics in the sign to voice process, progressing from sentential to textual formats working with comprehension, appropriate English word choices, vocal inflection, and English structure. Coursework will consist of lecture and discussion, videotaped projects and in class exercises and activities for skill enhancement. (Spring only)
Semester(s) Offered: Spring
Requisite: SLS 205, SLS 210 each with a grade of "C" or better; concurrent enrollment in or completion of SLS 220.
Type: C

SLS 230 Interpreting Practicum 1.5-6.5-3
Students will interpret in a variety of low-risk settings under the supervision of the instructor and/or a selected professional practitioner/mentor. Weekly seminar discussions will include review and analysis of the interpreting experiences and application of professional ethics and decision making skills. Students will prepare professional resumes and submit an interpreting log, documenting a minimum of 100 hours of interpreting experience. (Spring only)
Semester(s) Offered: Spring
Requisite: SLS 255 with a with a grade of "C" or better; concurrent enrollment in or completion of SLS 220 and SLS 225 each with a grade of "C" or better.
Type: C

SLS 255 Transliterating 3-0-3
This is a skill development course that provides students with the opportunity to practice the skills associated with simultaneously transliterating between spoken and Contact Sign. Students will be introduced to the specialized skills and terms involved in the transliteration process. Coursework will consist of lecture and discussion, videotaped projects and in-class exercises and activities for skill enhancement. (Fall only)
Semester(s) Offered: Fall
Requisite: Concurrent enrollment in or completion of SLS 203, SLS 205, SLS 210 each with a grade of "C" or better.
Type: C

SLS 270 Educational & Special Interpreter Settings 3-0-3
Students will discuss interpreting in the school and classroom environment, as well as in specialized community settings. Professional roles and responsibilities will be examined from the perspective of working with minors, their parents/guardians, educators, and school staff. Students will learn how the role of an interpreter changes from a pre-K environment through post-secondary levels. Students will participate in role-play and live interpretation of dialogues that occur in educational, social service, employment, and other special interpreting settings. Students will learn specialized vocabulary and the general principles and protocol associated with interpreting in each setting. (Spring only)
Semester(s) Offered: Spring
Requisite: Concurrent enrollment in or completion of SLS 206, SLS 220, SLS 225, SLS 230 each with a grade of "C" or better.
Type: C

SLS 280 Performance Interpreting 3-0-3
The key to successful performance interpreting lies in conveying the characters, relationships and atmosphere of the performance. This course assists interpreters and student interpreters in transitioning from everyday interpreting to a theatre/concert interpreting setting. (Spring only)
Semester(s) Offered: Spring
Requisite: SLS 101 with a grade of "C" or better; concurrent enrollment in or completion of SLS 100 and SLS 125 with a grade of "C" of better.
Department consent
Type: C

SLS 290 Advanced Practicum 0-4-1
This course is a vocational training course providing internship opportunities to graduates of Interpreter Training Programs who are preparing for state and national certification exams required for licensure. Interns will become more familiar with testing criteria and develop self-directed goals that work toward achieving or advancing professional certification (BEI, EIPA or NIC). Preparation for these exams may include, but is not limited to: job shadowing, internships, independent study skill development; self-assessment; mentor and peer feedback both online and face-to-face; practical work in the field; and working with beginner/intermediate students as peer reviewers and mentees.
Semester(s) Offered: Fall, Spring, Summer
Requisite: SLS 230 or graduation from an Interpreter Training Program or instructor approval.
Type: C

SLS 299 Special Topics In SLS Variable up to (4)-(8)-(4)
This course is designed to familiarize students with special topics or problems in Sign Language Studies: Interpreter field to provide them the knowledge or ability to deal effectively with those topics or problems in relation to their specific requirements. NOTE: Requisite varies by topic.
Semester(s) Offered: Intermittently
Requisite: SLS 230.
Type: C

Sociology

SOC 153 Introductory Sociology 3-0-3
This course is an introduction to the field of sociology – the scientific study of human social behavior. The intersection and interaction of the individual and society is emphasized. Consideration will be given to key areas of sociological research (socialization, group dynamics, social roles, social stratification, social theory, deviance and social control) and how these processes work in key social situations (such as the family, education, religion and economy). A major focus is the intersection of social class, race, ethnicity and gender. The course will focus on assisting the student to develop a Sociological Imagination.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-S7 900

SOC 155 Introduction to Social Work 3-0-3
This is an introductory-level course designed to familiarize students with concepts in social work. This course is appropriate for students considering careers as social workers and will explore the profession's history and purpose, and provide a broad introduction to generalist social work practice. Students will become familiar with the profession's code of ethics, values, and current areas of focus. Students will learn about social work practice applications in micro, mezzo, and macro areas of practice.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T

SOC 203 Social Problems 3-0-3
This course will introduce the sociological study of social problems focusing on both the structural context and symbolic construction within U.S. society. Social issues such as poverty, unemployment, racism, gender inequality, pollution, war, issues in education, drugs and crime will be explored with an emphasis on the intersection of race, ethnicity, gender and social class. Research will be used to understand the nature of these problems and to explore ongoing and new solutions.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-S7 901

SOC 210 Criminological Theory 3-0-3
This course explores the nature and variety of crime and deviant behavior in American society. Violence, crime, sexual deviance, alcohol and drug use and elite deviance are examined. Various theoretical approaches will be explored and applied. Issues surrounding social control will be considered.
Semester(s) Offered: Fall
Requisite: Eligible for ENG 101.
Type: T

SOC 220 The Sociology of Sex and Gender 3-0-3
This class is an introduction to the sociological study sex and gender. The focus is on the major sociological perspectives including concepts, theories an ideas related to sex and the social construction of gender and how both factor into social stratification and gender role acquisition. Gender helps constitute our personal identities and shapes the social and cultural structures that impact our opportunities. The development and use of a sociological perspective will be emphasized to critically evaluate the individual and social consequences of changing social definitions of gender roles.
Requisite: None.
Type: T, IAI-S7 904D

SOC 230 Race & Ethnicity in the United States 3-0-3
This class is an introduction to the sociological study of race and ethnicity in the United States. The focus is major sociological concepts, theories and ideas related to race and ethnicity. The historical development of racial and ethnic diversity and the current social circumstances of a variety of racial and ethnic groups in the United States will be included. The development and use of a sociological perspective will be emphasized to critically examine our current situation and our future as a multicultural society, emphasizing the intersection of race and ethnicity with gender and social class.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T, IAI-S7 903D

SOC 255 Sociology of the Family 3-0-3
This course is an examination of the origin and evolution of the human family as a social institution. Consideration will be given to traditional family types with special emphasis on the structure and function of the American family. It offers analyses of courtship patterns, marriage and the family forms, relationships and functions, and socio-cultural differences in family.
Semester(s) Offered: Fall, Spring, Summer
Requisite: Eligible for ENG 101.
Type: T, IAI-S7 902

SOC 265 Aging and Society 3-0-3
This course is an introduction to social gerontology (the sociology of aging and the aged). It examines age, aging and the aged from a sociological perspective. Specific emphasis is placed upon theories of aging, demographic trends (past, present and speculative), the social construction of aging, the interplay of social institutions and aging, and issues of age and inequality. Particular attention will be given to applied sociological ideas, including analysis and discussion of public policy and medical sociology.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

SOC 299 Research Study Problems in Soc. Variable up to (3)-0-(3)
Seminar on a special topic or current issue in sociology.
Semester(s) Offered: Intermittently
Requisite: Sophomore standing and at least one previous sociology course..
Type: T

Spanish

SPAN 101 Elementary Spanish I 4-0-4
This introductory language course focuses on establishing a solid foundation in the four basic skill areas of reading, writing, listening comprehension and speaking in Spanish. Students are also introduced to the history and cultures of the Spanish-speaking world.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: T

SPAN 102 Elementary Spanish II 4-0-4
This introductory language course is a continuation of SPAN 101 and focuses on establishing a solid foundation in the four basic skill areas of reading, writing, listening comprehension and speaking in Spanish. Students are also introduced to the history and cultures of the Spanish-speaking world.
Semester(s) Offered: Fall, Spring, Summer
Requisite: SPAN 101.
Type: T

SPAN 201 Intermediate Spanish I 4-0-4
Continued development of listening, speaking, reading and writing skills in Spanish. Grammar review. Cultural and literary readings and compositions. Course is conducted almost entirely in Spanish.
Semester(s) Offered: Fall, Spring
Requisite: SPAN 102.
Type: T

SPAN 202 Intermediate Spanish II 4-0-4
Continued development of listening, speaking, reading and writing skills in Spanish. Grammar review. Cultural and literary readings and compositions. Course is conducted almost entirely in Spanish.
Semester(s) Offered: Spring
Requisite: SPAN 201.
Type: T, IAI-H1 900

SPAN 211 Conversational Spanish I 3-0-3
This course focuses on developing speaking competency in Spanish. Individual exercises and group discussions on general topics and everyday situations help students improve their self-expression and aural comprehension. Oral exercises also help students acquire correct pronunciation and expand their knowledge of vocabulary and idioms in Spanish.
Semester(s) Offered: Intermittently
Requisite: SPAN 102.
Type: T

SPAN 212 Conversational Spanish II 3-0-3
A continuation of SPAN 211. This course focuses on developing speaking competency in Spanish. Individual exercises and group discussions on general topics and everyday situations help students improve their self-expression and aural comprehension. Oral exercises also help students acquire correct pronunciation and expand their knowledge of vocabulary and idioms in Spanish.
Semester(s) Offered: Intermittently
Requisite: SPAN 211.
Type: T

SPAN 299 Special Topics in Spanish Variable up to (4)-0-(4)
An in-depth study of various areas in Spanish language and culture presented through lectures, discussions, and/or individual research and readings by the students. Topics will vary. May include travel/study activities.
Semester(s) Offered: Intermittently
Requisite: None.
Type: T

Sterile Processing Technology

SPT 103 Sterile Processing Concepts 2.5-5-5
This course covers central sterile processing concepts focusing on cleaning, decontamination, and disinfection; preparation and packaging; documentation & record maintenance; the sterilization process; sterile storage and inventory management; and patient care equipment. The course will include topics of regulatory procedures, safety, risk management, infection prevention, quality assurance, and professional practices.
Requisite: None.
Type: C

SPT 110 SPT Experiential Learning 0-8-4
This course focuses on experiential learning in a healthcare setting with central sterile employees. Students will perform the essential duties of a sterile processing technician and are responsible for upholding professional practices related to the professional position. Students will fulfill a minimum of 400 hands-on contact hours necessary to apply to sit for the Certified Registered Central Service Technician (CRCST) Examination.
Requisite: None.
Type: C

Surgical Technology

MST 100 Ethical & Moral Concepts 1-0-1
Students become oriented to the profession of medical surgical technologists. Primary topics emphasized in this course include professionalism; ethical, moral, and legal concepts; biopsychosocial concepts of death and dying; and collaborative healthcare teamwork.
Semester(s) Offered: Fall
Requisite: Program Admission Required.
Type: C

MST 102 Healthcare Facility Management 3-0-3
This course covers healthcare facility management concepts including hazard identification and management, daily facility operations, physical environmental controls, and related information technology. Students are oriented to various types of healthcare hazards, operating room procedures, necessary safety controls, and the use of electronic records.
Semester(s) Offered: Fall
Requisite: Program Admission Required.
Type: C

MST 104 Sterile Processing Fundamentals 1-2-2
This course will introduce asepsis and sterile techniques applicable within healthcare settings focusing on normal and pathological pre-operative, intra-operative, and post-operative processes. This synthesized laboratory experience provides students an opportunity to practice sterile processing techniques an procedures while maintaining asepsis and sterile techniques.
Semester(s) Offered: Fall
Requisite: Program Admission Required.
Type: C

MST 104 Sterile Processing Fundamentals 1-2-2
This course will introduce asepsis and sterile techniques applicable within healthcare settings focusing on normal and pathological pre-operative, intra-operative, and post-operative processes. This synthesized laboratory experience provides students an opportunity to practice sterile processing techniques and procedures while maintaining asepsis and sterile techniques.
Semester(s) Offered: Fall
Requisite: None.
Type: C

MST 106 Surgical Technology 3-2-4
This course introduces physics concepts and safety controls for peri-operative settings with synthesized laboratory practice. The didactic and laboratory experiences will cover topics including electricity, lasers, and interventional radiology. Students will practice assembly, use, and application of equipment and instrumentation found within healthcare facilities.
Semester(s) Offered: Spring
Requisite: MST 100, MST 102 and MST 104 w/grade of "C" or better.
Type: C

MST 108 Pre-operative Case Management 3-4-5
This is the first of a three-course sequence providing an in-depth sequential study of surgical technology needed throughout operative care. The didactic and laboratory experiences in this course will focus on pre-operative preparation and patient care, including pathological surgical case management. Students will have an opportunity to determine and practice the processes to implement surgical attire, establish a sterile field, demonstrate surgical counts, and physically prepare a patient for surgery.
Semester(s) Offered: Summer
Requisite: None.
Type: C

MST 200 Perioperative Pharmacology 3-0-3
This course covers patient pharmacological needs for patients, including patients with various pathological conditions, along the peri-operative continuum. Students learn indications, contraindications, and side effects of operative medications including anesthesia. Dosage calculation, medication preparation, and correlative monitoring procedures are included in this course.
Semester(s) Offered: Fall
Requisite: MST 106 and MST 108 with a grade of "C" or better.
Type: C

MST 202 Intra-operative Case Management 3-4-5
This is the second of the three-course sequence providing an in-depth study of surgical technology needed throughout operative care, focusing on intra-operative processes, including pathological surgical cases. The didactic and laboratory experiences in this course will focus on surgical exposures, maintenance of the sterile field, wound management, and specimen care. Students will have an opportunity to determine and practice intra-operative procedures and processes.
Semester(s) Offered: Fall
Requisite: MST 106 and MST 108 with a grade of "C" or better.
Type: C

MST 204 Clinical Internship I 0-8-4
This course is the first of two clinical education experiences that provides an opportunity to practice patient care and medical surgical techniques under the supervision of a certified medical surgical technologist. Students practice procedures and techniques at a healthcare facility for 30-40 hours per week, for six weeks, for a maximum total of 240 hours to achieve a total of 120 cases throughout the program. This course provides students an opportunity to participate in first and second scrub roles as appropriate. Clinical instructors in the healthcare facilities to which the students are assigned provide student supervision.
Semester(s) Offered: Fall
Requisite: MST 106 and MST 108 w/grade of "C" or better.
Type: C

MST 206 Post-operative Case Management 3-4-5
This is the third of the three-course sequence providing an in-depth study of the final phase of surgical case management. This course includes surgical technology needs, processes, and procedures throughout operative care, focusing on post-operative care including pathological surgical cases. The didactic and laboratory experiences in this course covers dressing applications, post-operative acute care, disinfection of the surgical environment, and professional responsibilities.
Semester(s) Offered: Spring
Requisite: MST 200, MST 202, MST 204 each with a grade of "C" or better.
Type: C

MST 208 Specialty Surgical Procedures 2-0-2
This course covers specialty surgical procedures commonly occurring in healthcare facilities, including pathological surgical cases. This course includes related procedural approaches, diagnostic procedures, operative sequences, and peri-operative care based upon procedure. Students learn relevant anatomy and physiology, wound classification, and pharmacological needs.
Semester(s) Offered: Spring
Requisite: MST 200, MST 202, MST 204 each with a grade of "C" or better.
Type: C

MST 210 Clinical Internship II 0-12-6
This course is the second of two clinical education experiences that provides students an opportunity to practice patient care and medical surgical techniques under the supervision of a certified medical surgical technologist. Students practice procedures and techniques at a healthcare facility to include specialty surgical procedures. This clinical education experience includes 30-40 hours per week, for eight weeks, for a maximum total of 320 hours to achieve a total of 120 cases throughout the program. This course provides students an opportunity to participate in first and second scrub roles as appropriate. Clinical instructors in the healthcare facilities to which the students are assigned provide student supervision.
Semester(s) Offered: Spring
Requisite: MST 200, MST 202, MST 204, HES 152 each with a grade of "C" or better.
Type: C

Theatre

THEA 120 Theatre Appreciation 3-0-3
A Humanities course that surveys the nature and function of theatre as a collaborative art. The foundations and basic elements, historical and contemporary forms of experience, production processes, and criteria for performance criticism of theatre will be explored using lecture, selected readings, films, demonstrations, guest speakers, and slide presentations. Some play attendance will be required.
Semester(s) Offered: Fall, Spring, Summer

Requisite: None.
Type: T, IAI-F1 907

THEA 161 Production Lab 0-3-1
This is a theatre performance class designed to instruct students in dramatic interpretation and presentation. Examining different acting, movement, and vocal techniques, students will have opportunities for developing skills by examining concepts, principles, and techniques for dramatic performance through regular rehearsal and performance.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: T

THEA 162 Production Lab 0-3-1
This is a theatre performance class designed to instruct students in dramatic interpretation and presentation. Examining different acting, movement, and vocal techniques, students will have opportunities for developing skills by examining concepts, principles, and techniques for dramatic performance through regular rehearsal and performance.
Semester(s) Offered: Fall, Spring
Requisite: THEA 161.
Type: T

THEA 256 Theatre Acting 3-0-3
Theatre Acting is designed for the college student possessing little or no background in the performing arts and/or the student with some knowledge and experience. Course content includes beginning technique, theory, and the methodology needed to grasp the concept of acting. The practice of acting is explored through exercises using imagination, concentration, relaxation, intention, improvisation, spontaneity, and the reality of doing (as each applies to the craft of acting).
Semester(s) Offered: Fall
Requisite: None.
Type: T, IAI-TA 914

THEA 261 Production Lab 0-3-1
This is a theatre performance class designed to instruct students in dramatic interpretation and presentation. Examining different acting, movement, and vocal techniques, students will have opportunities for developing skills by examining concepts, principles, and techniques for dramatic performance through regular rehearsal and performance.
Semester(s) Offered: Fall, Spring
Requisite: THEA 162.
Type: T

THEA 262 Production Lab 0-3-1
This is a theatre performance class designed to instruct students in dramatic interpretation and presentation. Examining different acting, movement, and vocal techniques, students will have opportunities for developing skills by examining concepts, principles, and techniques for dramatic performance through regular rehearsal and performance.
Semester(s) Offered: Fall, Spring
Requisite: THEA 261.
Type: T

Warehousing

WRH 120 Warehousing Environment 1.5-0-1.5
This course provides learners with an overview of the functional and structural composition of warehousing and distribution centers. Topics include product flow, warehousing processes, working safely in a warehousing environment, principles in running a business, workplace ethics and how employees affect the bottom line.
Requisite: None.
Type: C

WRH 121 Warehousing Workforce Skills 1.5-0-1.5
Learners will be provided with an overview of workplace practices that contribute to the success of the job. The art of effective communication, working with others, projecting a positive image, and learning interview skills will be stressed in this course.
Requisite: None.
Type: C

WRH 122 Warehousing & Distribution Process 2.5-0-2.5
This course provides learners with the knowledge and understanding of the core skills associated with warehousing and distribution. Learners will focus on the physical aspects of warehousing and distribution functions like material handling, staging and shipping. Other topics to be covered in this course include: warehousing productivity measures, inventory management, protecting materials and merchandise, palleting, handling systems, and processing hazardous materials.
Requisite: None.
Type: C

WRH 123 Warehousing Technology Skills 2-0-2
Warehousing technology skills are those practices important to working in a technical environment. This course covers the use of scanners and data applications along with the understanding of industrial controls and computers and automation.
Requisite: None.
Type: C

WRH 124 Representative Warehousing Skills 2.5-0-2.5
This course discusses and applies mathematical concepts used in warehousing and distribution. It also focuses on powered material handling equipment and safety requirements. Warehousing simulations provide the opportunity to participate in problem solving of both warehousing and personal performance issues.
Requisite: None.
Type: C

Welding Technology

WLDT 100 Welding Technology Orientation 0.5-0-0.5
This course prepares students for success in the Welding Technology Program. Student work expectations, required personal protective equipment (PPE) and shop safety requirements will be covered. The Welding Technology's courses, certificates, and degree requirements, as well as support services offered at the college will also be covered. This course is designed to provide students with the necessary skills to navigate the colleges' email, online learning management system, and online student portal.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

WLDT 101 Introduction to Welding 1-8-5
This entry level course is primarily spent in the weld lab and introduces students to the basic concepts of arc welding and oxy-fuel cutting. Emphasis is put in safety, working with weld shop tools and equipment, and developing skills using the Shielding Metal Arc Welding (SMAW) process with different types of welding rods to make quality surfacing and fillet welds. An introduction to the Flux Cored Arc Welding (FCAW) process and gouging of steel using the Air Carbon Arc process is also included.
Semester(s) Offered: Fall, Spring, Summer
Requisite: WLDT 100 or concurrent enrollment, or program coordinator consent.
Type: C

WLDT 102 Principles of Welding 4.5-0-4.5
This course covers fundamental concepts of welding, technical terms and weld shop knowledge required for an entry level welder. Also included is an online Occupational Safety and Health segment where students can earn a 10-hour OSHA certification.
Semester(s) Offered: Fall, Spring
Requisite: WLDT 100 or concurrent enrollment, or program coordinator consent.
Type: C

WLDT 106 Weld Fabrication Blueprint Reading 3-0-3
This course covers the basics of reading and understanding technical drawings (blueprints) used in the field of welding.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

WLDT 107 Advanced Blueprint Reading 2-0-2
This course includes a review of architectural and technical drawing

fundamentals. It also includes structural shapes, detailing, shop drawings, welding symbols and sketching.
Semester(s) Offered: Fall, Spring, Summer
Requisite: WLDT 106.
Type: C

WLDT 115 Industrial Welder I 3.5-1-4
This course is designed to introduce the student to the fundamentals of arc welding. Materials covered in this course will include welding machines, equipment, and welding supplies.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

WLDT 125 Industrial Welder II 3.5-1-4
This course will introduce the student to arc and acetylene cutting equipment. Also introduced will be material covering special cutting procedures.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

WLDT 135 Industrial Welder III 3.5-1-4
This course will introduce the student to types of welding equipment and their uses. The three basic welding positions will be covered in detail. Special welding application also will be covered.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

WLDT 145 Industrial Welder IV 3.5-1-4
This course will introduce the student to semi-automatic and automatic welding processes; also included will be information on welding nonferrous metals using the TIG process.
Semester(s) Offered: Intermittently
Requisite: None.
Type: C

WLDT 152 All Position Arc Welding 1-8-5
This course continues student development in making fillet welds with the SMAW and FCAW processes. It also includes continued practice with the oxy-fuel cutting and carbon arc gouging processes as well as an introduction to the Gas Metal Arc Welding process. Emphasis is on welding in the vertical (3F), overhead (4F), and 45- degree positions.
Semester(s) Offered: Fall, Spring
Requisite: WLDT 100 or concurrent enrollment, WLDT 101 or concurrent enrollment, or program coordinator consent.
Type: C

WLDT 201 Advanced Arc Welding 2-8-6
Provides advanced welding students and shop welders additional experience with out-of-position arc welding. Emphasis is put on V groove welds. An A.W.S test will be given in the vertical position from the D1.1 Code Book. Continued skill development using the Flux Cored Arc Welding (FCAW) and Gas Metal Arc Welding (GMAW) processes is also included.
Semester(s) Offered: Fall, Spring
Requisite: WLDT 152 or program coordinator consent.
Type: C

WLDT 251 Structural Fabrication Welding 2-4-4
This course provides instruction on the skills and techniques required to weld structural shapes. Multiple sizes of both round and rectangular tube, beams, and other shapes will be used. Welding practices include: joint preparation and fit-up, tube to plate and tube to tube welds in various positions. An introduction to pipe welding is also included.
Semester(s) Offered: Fall, Spring
Requisite: WLDT 201 or program coordinator consent.
Type: C

WLDT 252 Pipe Welding 2-4-4
Develops skill in the technique of pipe welding. Pipe welding practices include: joint preparation and fit-up, groove welds on pipe in the 2G (fixed horizontal), 5G (fixed vertical), and 6G (fixed 45 degree) positions.
Semester(s) Offered: Fall, Spring, Summer
Requisite: WLDT 201 or program coordinator consent.
Type: C

WLDT 253 GTAW/GMAW/FCAW/PAC 2-4-4
Provides welding practice and theory in Gas Tungsten Arc Welding, Gas Metal Arc Welding, Flux Cored Arc Welding with and without gas shielding, and Plasma Arc Cutting. Welding and cutting techniques on both ferrous and nonferrous metals.
Semester(s) Offered: Fall, Spring, Summer
Requisite: WLDT 100 or program coordinator consent.
Type: C

WLDT 254 Testing and Inspection of Welds 3-0-3
Provides instruction in the destructive and nondestructive tests used in the welding industry. Writing welding procedures to meet welding-code specifications is also covered.
Semester(s) Offered: Fall, Spring
Requisite: WLDT 102 or program coordinator consent.
Type: C

WLDT 255 Layout and Fitup for Welders 3-0-3
Provides instruction in the processes of plate, structural and pipe fabrication. Students will learn to draw layout templates used in the fabrication of piping systems. Lab projects requiring the student to read prints, layout and fit weldments will be assigned.
Semester(s) Offered: Fall, Spring
Requisite: WLDT 106 or program coordinator consent.
Type: C

WLDT 256 Qual & Cert Procedures - Welding Insps 3-0-3
This covers the basic material required for a student to prepare for the American Welding Society Certification Test or to improve their knowledge of inspection of weldments and welded-products. This is a preparatory course and in no way guarantees the individual will successfully complete the certification test.
Semester(s) Offered: Fall, Spring
Requisite: None.
Type: C

WLDT 260 Welding Automation 3-4-5
This course introduces the student to welding automation. It provides detailed instruction and hands on experience working with controls for welding automation and automated welding systems. The student will work with many types of equipment including an automatic voltage control, cold wire feeder, arc video camera and monitor, longitudinal seamer, sidebeam and carriage, tilt and rotate positioner, turning roll system and weld lathe.
Semester(s) Offered: Fall
Requisite: WLDT 253.
Type: C

WLDT 270 Robotic Welding & CNC Cutting 3-4-5
This is an introductory course that will introduce the student to robotic arc welding and CNC cutting. It provides detailed instruction on the safe operation of robotic arc welding and CNC plasma/oxy-fuel cutting systems. Students will be required to program and perform various robotic arc welds with the GMAW process, program CNC equipment to perform cutting operations with both the plasma cutting process and oxy-fuel process on both plate and pipe. Also covered will be the use of a CNC plate marking system.
Semester(s) Offered: Spring
Requisite: WLDT 253.
Type: C

WLDT 299 Special Problems in Welding Variable up to (1)-(10)-(6)
Meets the needs of the experience welder. Material covered is determined on an individual basis. Each student submits an outline of the material they would like to cover. Should consist of a special project or special welding techniques.
Semester(s) Offered: Fall, Spring, Summer
Requisite: None.
Type: C

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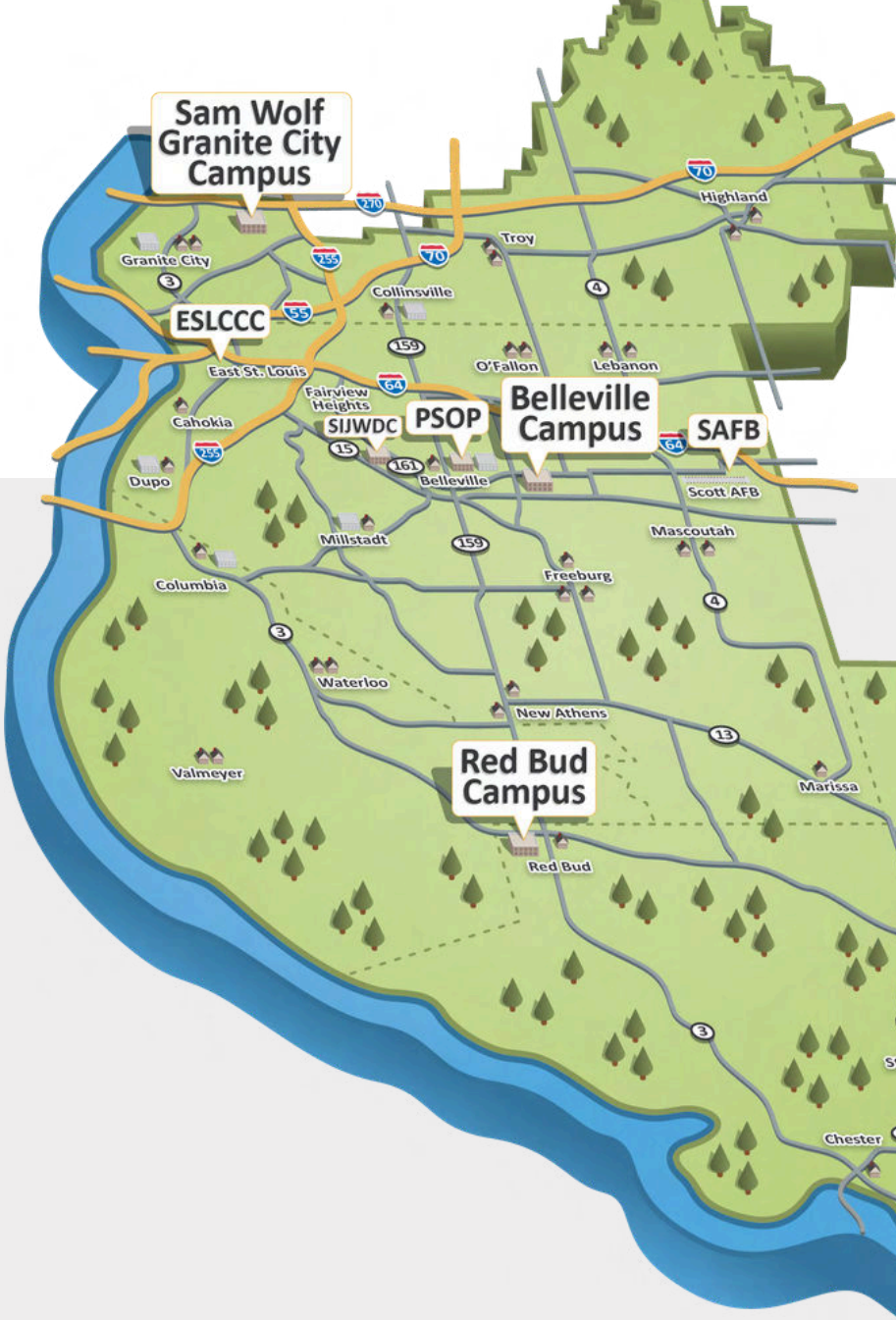

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