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

- Degree Degree & Certificate Program Certificate ☐ Accounting Program **Accounting AAS Bookkeeping Certificate** ☐ Administration of Justice Program Administration of Justice AAS Administration of Justice Certificate **Armed Private Security Certificate Unarmed Private Security Certificate** Police Academy Certificate ☐ Aviation Maintenance Technology Program Aviation Maintenance Technology AAS Airframe & Powerplant Certificate **CMT Certificate** Airframe Certificate **Building Trades Safety Powerplant Certificate** Aviation Management AAS Aircraft Dispatcher Certificate **Culinary Arts Certificate** ☐ Aviation Pilot Training Program **Food Service Certificate** Aviation Pilot Training - Airplane/Helicopter AAS Aviation Pilot Training Certificate ■ Baking & Pastry AAS **Private Pilot Certificate Baking & Pastry Certificate** ☐ Commercial Maintenance Mechanics Program ■ Commercial Maintenance Mechanics AAS Commercial Maintenance Mechanics Certificate ☐ Computer Aided Design Program Cybersecurity Specialist Computer Aided Design AAS General, Architecture/Structural Detail or Machine Specialization Computer Aided Design Certificate ☐ Computer Information Systems Program ■ Electronics Technology AAS ■ Computer Information Systems AAS Computer Management Information Systems AAS **Database Development & Management AAS** Software Development AAS Industrial Electricity AAS CIS Tech Support/Help Desk AAS • C# Programming Certificate C++ Programming Certificate **Computer Technology** ☐ Fire Science Program **Database Administration Certificate** Fire Science AAS **Database Development Certificate** Java Programming Certificate Visual Basic Programming Certificate ☐ Construction Apprenticeship Training Programs Construction Bricklayer AAS **Bricklayer Apprentice Certificate** Construction Carpentry AAS Carpentry Apprentice Certificate Rope Rescue I & II Certificate ■ Construction Cement Mason AAS Trench Rescue I & II Certificate **Construction Cement Mason Certificate**
- Construction Electrical Specialist AAS Construction Electrical Lineman Certificate Construction Electrical Residential Certificate Construction Electrical Telecom Certificate Construction Electrical Wireman Certificate Construction Ironworker AAS Ironworker Apprentice Certificate Construction Painting and Decorating AAS Painting and Decorating Apprentice Certificate ■ Construction Sheetmetal AAS Construction Sheetmetal Apprentice Certificate ☐ Construction Management Technology Program ■ Construction Management Technology AAS **Building Performance Certificate Building Information Modeling Certificate** ☐ Culinary Arts and Food Management Program Culinary Arts and Food Management AAS Food Service and Management Certificate ☐ Cybersecurity and Networking Program Cybersecurity and Networking AAS **Network Associate Certificate** ☐ Early Childhood Education Program Early Childhood Education AAS Early Childhood Education Certificate Electrical/Electronics Technology Program **Electronics Technology Certificate Automated Manufacturing Systems Certificate** Microcomputer Hardware Maintenance Certificate **Electrical Technology Certificate Industrial Electricity Certificate Emergency Medical Technician Certificate** Confined Space Rescue I & II Certificate Fire Apparatus Engineer Certificate Fire Fighter I & II Certificate Fire Service Instructor I Certificate Fire Service Instructor II Certificate Fire Service Officer I Certificate Fire Service Officer II Certificate Haz Mat First Responder Certificate

SOUTHWESTERN ILLINOIS COLLEGE **2019-2020**

Vehicle Rescue Operations Certificate

Water Rescue I & II Certificate

_	Degree	• Phiebotomy Certificate
	Degree & Certificate Program	☐ Music Technology Program
•	Certificate	■ Music Technology AAS
$\overline{}$	Consultin Communications Durants	Recording Technology Certificate
ο.	Graphic Communications Program	Nurse Assistant Certificate
	Graphic Communications AAS	■ Nursing Education AAS
	Graphic Design Certificate	☐ Office Administration and Technology Program
	Health Information Technology AAS	Office Administration AAS
	Heating, Ventilation, Air Conditioning and	
	Refrigeration Program	 Office Technology Specialist AAS
	Heating, Ventilation, Air Conditioning and	Administrative Office Support Certificate
	Refrigeration AAS	Microsoft Office Specialist Certificate
	HVAR Certificate	Office Support Technology Certificate
	Horticulture Program	 Office Technology Assistant I Certificate
	■ Horticulture AAS	 Office Technology Assistant II Certificate
	General Horticulture, Turf Management, Floral	 Virtual Assistant Certificate
	Design, Nursery and Landscaping, Greenhouse,	Paralegal Studies AAS
	or Fruits and Vegetables specialization	☐ Paramedic/Paramedicine Program
	Horticulture Certificate	Paramedicine AAS
	Floral Design Certificate	 Paramedic Certificate
	· · · · · · · · · · · · · · · · · · ·	Physical Therapist Assistant AAS
ο.	Human Services Technology Program ■ Human Services Technology AAS	☐ Precision Machining Technology Program
		Precision Machining Technology AAS
	Youth Care, Elder Care or Criminal Justice Social	 Precision Machining Technology Certificate
	Services Specialization	CNC Machining Certificate
_	Psychiatric Rehabilitation Certificate	Mastercam Certificate
Ш	Industrial Maintenance Mechanics Program	Solid Works Certificate
	Industrial Maintenance Mechanics AAS	Advanced CNC Programming Certificate
	 Industrial Maintenance Mechanics Certificate 	■ Radiologic Technology AAS
	 Stationary Engineering Certificate 	
	Management Program	• Computed Tomography Certificate
	■ Management AAS	Respiratory Care AAS
	Management Certificate	☐ Sign Language Studies: Interpreter Program
	 Logistics and Supply Chain Management Certificate 	■ Sign Language Studies: Interpreter AAS
	Marketing Program	Sign Language/Basic Communication Certificate
	■ Marketing AAS	Warehousing and Distribution Certificate
	Digital Marketing Certificate	☐ Web Technologies Program
	Marketing Certificate	Web Technologies AAS
	Massage Therapy Program	Web Designer and Web Development specialization
	■ Massage Therapy AAS	 Web Coding Certificate
	Massage Therapy Certificate	 Web Design Certificate
	Neuromuscular Therapy Certificate	 Java Programming Certificate
	Medical Assistant Program	☐ Welding Technology Program
	■ Medical Assistant AAS	Welding Technology AAS
	Medical Assistant AAS Medical Assistant Certificate	Welding Technology Certificate
		Welding Technology Advanced Certificate
	Medical Billing & Coding	Welding Technology Specialized Certificate
ш.	Medical Laboratory Technology Program	Advanced Welding Manufacturing Certificate
	Medical Laboratory Technology AAS	and an area of the same of the

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: Health Information Technology, Medical Assistant, Medical Billing & Coding, 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, Medical Billing & Coding, 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.

A minimum grade of C is required for ENG 101.

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 2+2 Agreements:

SWIC has developed a number of 2+2 Agreements with fouryear 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 2+2 Agreements.

Human Relations:

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, these courses are listed in white 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 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 Success Strategies:

Beginning students are encouraged to enroll in ED 101 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:

<u>Term</u>	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.

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:

ENG 101 with a minimum grade of "C" – 3 semester credits

Human Well-Being course(s) – 2 semester credits

Human Relations course – 3 semester credits

Additional general education coursework may be chosen from the following categories:

Communications				
CHIN 101	ENG 207	GERM 102	RUSS 101	SPCH 155
CHIN 102	FILM 105	GERM 201	RUSS 102	SPCH 170
ENG 102	FREN 101	GERM 202	SPAN 101	SPCH 180
ENG 103	FREN 102	JOUR 101	SPAN 102	SPCH 200
ENG 106	FREN 201	JOUR 110	SPAN 201	SPCH 213
ENG 107	FREN 202	MCOM 201	SPAN 202	
ENG 108	GERM 101	OAT 261	SPCH 151	
Humanities				
ART 101	FILM 225	LIT 201	LIT 290	PHIL 153
ART 102	HIST 230	LIT 202	LIT 291	PHIL 154
ART 103	HIST 286	LIT 205	LIT 293	PHIL 155
ART 104	HUM 200	LIT 213	MUS 101	PHIL 156
ART 105	LIT 113	LIT 214	MUS 102	PHIL 160
ART 106	LIT 117	LIT 215	MUS 103	PHIL 171
ART 110	LIT 120	LIT 216	MUS 110	THEA 120
ED 293	LIT 125	LIT 219	PHIL 150	
FILM 115	LIT 133	LIT 251	PHIL 151	
FILM 215	LIT 134	LIT 252	PHIL 152	
Social/Behavioral Scie	nces			
ANTH 150	GEOG 241	HIST 232	POLS 292	PSYC 266
ANTH 160	HIST 101	HIST 234	PSYC 151	PSYC 270
ANTH 210	HIST 102	HIST 250	PSYC 200	PSYC 277
ANTH 250	HIST 114	HIST 282	PSYC 210	PSYC 280
ECON 115	HIST 115	HIST 288	PSYC 225	PSYC 288
ECON 201	HIST 117	HIST 292	PSYC 250	PSYC 295
ECON 202	HIST 118	POLS 150	PSYC 251	SOC 153
ED 252	HIST 151	POLS 240	PSYC 252	SOC 203
GEOG 143	HIST 152	POLS 241	PSYC 253	SOC 210
GEOG 151	HIST 160	POLS 262	PSYC 254	SOC 222
GEOG 152	HIST 161_	POLS 270	PSYC 259	SOC 230
GEOG 202	HIST 180	POLS 289	PSYC 260	SOC 255
GEOG 240	HIST 181	POLS 290	PSYC 265	SOC 265
Human Well-Being (2 s	semester credits requir	ed)		
HES 130	HES 151	HES 154	HES 156	HRO 150
HES 131	HES 152	HES 155	HES 158	
Mathematics				
MATH 107	MATH 112	MATH 114	MATH 203	MATH 213
MATH 111	MATH 113	MATH 191	MATH 203	BUS 205
				
Life Science/Physical S		PIOL 250	ES 101	DUVC 101
BIOL 100	BIOL 108 BIOL 151	BIOL 250 BIOL 270	ES 101 ES 102	PHYS 101 PHYS 151
BIOL 100 BIOL 101	BIOL 151 BIOL 157	BIOL 270 CHEM 100	ES 102 ES 114	PHYS 151 PHYS 152
BIOL 101 BIOL 105	BIOL 157 BIOL 158	CHEM 100 CHEM 101	ES 114 ES 180	PHYS 204
BIOL 105	BIOL 138	CHEM 101 CHEM 105	ES 250	FH13 204
BIOL 100	BIOL 204	CHEW 103	ES 230	

XXX Human Relations Classes

Accounting

swic.edu/accounting-aas

Department Chair: Dawn Peters, ext. 5487 Faculty: Jessica Talleur

Dean: Janet Fontenot

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.

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 Yea Fall Sem		Se	mester Credits
	BUS	101	Introduction to Business	3
	BUS	102	Business Mathematics OR	
	MGMT	102	Business Mathematics	3
	ACCT	110	Financial Accounting	4
	OAT	175	Electronic Spreadsheets	3
	ECON	201	Principles of Economics I (Macro	o) 3
Total Semester Credits			16	

Spring Semester Semester Cree				
ACCT	111	Managerial Accounting	4	
ACCT	106	Introduction of QuickBooks	3	
ACCT	211	Intermediate Accounting I	3	
SPCH	151	Fundamentals of Public Speakir	ig 3	
ENG	101	Rhetoric & Composition I	3	
Total Semester Credits				

Second Year					
Fall Sem	ester	Semester Credits			
Accounti	ng Ele	ective	3		
ACCT	206	Individual/Business Tax OR			
MGMT	206	Individual/Business Tax	3		
BUS	215	Business Law	3		
OAT	261	Business Communications	3		
Human Relations Elective 3					
Total Semester Credits					

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Spring Semester Semester Credits					
ACCT	212	Certified Bookkeeper Review	3		
ACCT	215	Accounting for Small Business	3		
Specified	or Ac	counting Elective	3		
BUS		Business Computer Systems	3		
Human '	Well-B	eing Elective	2		
Total Se	mester	Credits	14		
Total Pr	Total Program Credits 61				
Account	ing El	ectives:			
ACCT	210	Cost Accounting	3		
ACCT	269	Accounting Internship	3		
Specified	d Elect	ives:			
BUS	241	Fundamentals of Finance	3		
ECON	202	Principles of Economics II (Mi	icro) 3		
MGMT	213	Human Relations in the Work	place 3		
MGMT	214	Principles of Management	3		
OAT	156	Microsoft Office Suite I	3		
OAT	180	Word Processing	3		
OAT	230	Advanced Electronic Spreadsho	eet 3		

Internships

Internships can enhance a student's résumé, particularly if the student does not have experience in his or her chosen field of study. You do not need to be registered in a class to participate in an internship although you have the option to choose one under the Specified Electives requirement. If you do not choose to take the course, you may still receive advice about finding a suitable internship position from the degree program coordinator. Students should have a minimum of nine semester credits of Accounting coursework completed before beginning an accounting internship.

Accounting (continued)

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 of the Business Division and the vice president for Instruction.

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.

ACCT	106	Introduction to Quickbooks	3
ACCT	110	Financial Accounting	4
ACCT	111	Managerial Accounting	4
ACCT	210	Cost Accounting	3
ACCT	211	Intermediate Accounting I	3
ACCT	212	Certified Bookkeeper Review	3
ACCT	215	Accounting for Small Businesses	3
MGMT	206	Individual and Business Income Tax OR	3
ACCT	206	Individual and Business Income Tax	
OAT	175	Electronic Spreadsheet	3
Total Cre	Total Credits		

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/oco/.

Administration of Justice

swic.edu/aoj

Coordinator/Faculty: Van Muschler, ext. 5653

Dean: Julie Muertz

This two-year curriculum and the graduation degree requirements in the front of this catalog lead to the Associate in Applied Science degree for the student preparing for a career in Administration of Justice. 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.

2+2 Articulation Agreements

- EIU BA Criminology and Criminal Justice
- EIU BA Sociology
- SIUE 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 Sen	iester	•	Semester Credits	
AOJ	100	Intro to Administration of Justic	e 3	
AOJ	105	Police Administration	3	
AOJ	151	Policing: Methods and Ethics	3 3 3 3 3	
ENG	101	Rhetoric & Composition I	3	
PSYC	151	General Psychology	3	
AOJ Ap	prove	d Elective*	3	
Total Se	mest	er Credits	18	
Spring S	Semes	ster	Semester Credits	
		Juvenile Delinquency	3	
		Community Policing	3	
ENG	102	Rhetoric and Composition II	3 3 3 3 3	
POLS	150	Intro to American Government	3	
		Introductory Sociology	3	
Total Se	mest	er Credits	15	
Second	Year			
Fall Sen	nester		Semester Credits	
AOJ	203	Criminal Law & Admin of Justin	ce 3	
AOJ	251	Rules of Criminal Evidence	3	
		Fundamentals of Public Speakin		
		Social Problems OR		
AOJ	160	Criminology	3	
		, ,		

3 **15**

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OAT**** Elective(s)

Total Semester Credits

Spring	Seme	ster Semester	Credits	
EMS	105	First Responder-EMS**	4	
AOJ	255	Criminal Investigation Case Preparation	3	
AOJ	290	Police Report Writing	3	
AOJ	Elect	rive*	3	
Approved Elective****				
Total Semester Credits			17	
Total Program Credits 65				

Students must meet all graduation requirements, including Human Relations, identified at the front of the catalog.

*AOJ electives may be selected from the following list of approved AOJ courses according to career goal. Law Enforcement: 101, 102, 110, 144, 145, 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.

****Electives may be selected from any of the following subject areas: Administration of Justice, Foreign Language, Mathematics, Social Science, Physical Education, Life Sciences, Physical Sciences or an approved computer course: OAT 128, 130, 131, 132, 133, 146, 155, 156, 164, 165, 170, 171, 172, 175, 180, 185, 190, 225, 230, 240 and 285. A list of approved electives by course is available at swic.edu/aoj-degree-certificates. If you have taken a course or are interested in enrolling in a course which does not appear on the list, please contact the AOJ coordinator, 618-235-2700, ext. 5653 to request a review of the course you have/wish to enroll.

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.

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			

Requisites may be required for some courses. Refer to the *Course Description Guide* beginning on page 246.

Administration of Justice (continued)

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 14 weeks (560 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.

AOJ	104	Police Officer Proficiencies	4.5	
AOJ	120	Foundations of Law Enforcement	3	
AOJ	150	Police Officer's Patrol Functions	3	
AOJ	152	The Police Function & Human Behavior	3.5	
AOJ	201	Law for Patrol Officers	4	
AOJ	206	Police Traffic & Crash Management	2	
AOJ	257	Patrol Investigations	2.5	
FS	280	Haz Mat Awareness	.5	
HES	130	Physical Fitness I	1	
Total Credits 24				

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.

AOJ	144	Security Officer Certification	2
AOJ	145	Introduction to Firearms	1

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.

AOJ 144 Security Officer Certification 2

Career Opportunities

A student attaining the Armed Private Security certificate is prepared to work as a(n):

- Security officer
- Armed security officer

Aviation Maintenance Technology

swic.edu/avmt

Faculty: Michael Dealy, ext. 7360 email: michael.dealy@swic.edu Matthew Harter, ext. 7145 email: matthew.harter@swic.edu

Dean: Bradley Sparks

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 (eight hours per day). The two-year format allows you to complete the A&P Certificate or Associate in Applied Science degree taking classes four hours per day. See the program coordinator or an academic advisor for more information.

2+2 Articulation Agreements

- SIUC BS Aviation Technologies-Aircraft Maint
- SIUC BS Aviation Technologies-Aviation Electronics
- SIUC BS Aviation Technologies-Helicopter

Associate in Applied Science Degree (0009)

Core Co	ourses	Semester Cre	dits
AVMT	121	Instrument and Navigation Systems	3
AVMT	122	Fuel Systems, Inspection & Aircraft Rigging	3
AVMT	126	Aircraft Non-metallic Structures	3
AVMT	127	Aircraft Metallic Structures	3
AVMT	131	Aircraft Electrical Systems	3
AVMT	132	Charging Systems & Environmental Systems	3
AVMT	136	Aircraft Fluid Power Systems	3
AVMT	137	Landing Gear Systems	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	Turbine Engines	3
AVMT	158	Ignition and Starting Systems	3
AVMT	171	Aircraft Powerplant Systems & Components	3
AVMT	172	Aircraft Fuel Metering Systems	3
AVMT	176	Aircraft Propellers	3
AVMT	177	Aircraft Powerplant Systems	3
AVMT	186	Reciprocating Engine Overhaul	3
AVMT	187	Reciprocating Engine Maintenance	3
Total Pa	ograi	m Credits	60

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 Credits 15

Airframe & Powerplant Certificate (009A)

General Education Courses

AVMT	121	Instrument and Navigation Systems	3
AVMT	122	Fuel Systems, Inspection & Aircraft Rigging	3
AVMT	126	Aircraft Non-metallic Structures	3
AVMT	127	Aircraft Metallic Structures	3
AVMT	131	Aircraft Electrical Systems	3
AVMT	132	Charging Systems & Environmental Systems	3
AVMT	136	Aircraft Fluid Power Systems	3
AVMT	137	Landing Gear Systems	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	Turbine Engines	3
AVMT	158	Ignition and Starting Systems	3
AVMT	171	Aircraft Powerplant Systems & Components	3
AVMT	172	Aircraft Fuel Metering Systems	3
AVMT	176		3
AVMT	177	Aircraft Powerplant Systems	3
AVMT	186	Reciprocating Engine Overhaul	3
AVMT	187	Reciprocating Engine Maintenance	3
Total C	redits		60

Airframe Certificate (009B)

Allila	c ,	cer tilicate (00)Dj	
AVMT	121	Instrument and Navigation Systems	3
AVMT	122	Fuel Systems, Inspection & Aircraft Rigging	3
AVMT	126	Aircraft Non-metallic Structures	3
AVMT	127	Aircraft Metallic Structures	3
AVMT	131	Aircraft Electrical Systems	3
AVMT	132	Charging Systems & Environmental Systems	3
		Aircraft Fluid Power Systems	3
AVMT	137	Landing Gear Systems	3
AVMT	140	Materials, Processes & Fabrication	3
AVMT	145	Basic Electricity & Technology	3
AVMT	150	Fundamentals & Operations	3
AVMT	155	Regulations & Science	3
Total C	redits		36

Aviation Maintenance Technology (continued)

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
		Turbine Engines	3
AVMT	158	Ignition and Starting Systems	3
AVMT	171	Aircraft Powerplant Systems & Components	3
AVMT	172	Aircraft Fuel Metering Systems	3
AVMT	176	Aircraft Propellers	3
		Aircraft Powerplant Systems	3
		Reciprocating Engine Overhaul	3
		Reciprocating Engine Maintenance	3
	Total Credits 3		

Students must earn a grade of C or better in all AVMT courses to meet degree and certificate requirements.

Test Prep Courses

Although these courses do not count toward the AVMT Associate in Applied Science degree or one of the certificates, individuals with sufficient aviation industry experience to obtain a sign-off from the FAA to take the written examination for the Aircraft Mechanic Airframe or Powerplant certificate may find them beneficial as they prepare for the exams.

AVMT	106	FAA Test Prep – Airframe	4
AVMT	107	FAA Test Prep – General	4
AVMT	108	FAA Test Prep – Powerplant	4

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	Intro to Avionics Installation	3
AVE	141	Avionics Installation Trends	3

Other courses that may be of interest to AVMT students are: EET 260 and EET 264.

Requisites may be required for some courses. Refer to the *Course Description Guide* beginning on page 246.

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: Bradley Sparks

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.

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 30 percent 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.

2+2 Articulation Agreements

• SIUC – 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 Ser	nestei	•	Semester Credits		
AVIA	101	Private Pilot Flight Theory**	4		
AVIA	108	Aviation History	3		
AVIA		Aircraft Systems and Compone	nts 2		
AVIA	260	Aviation Meteorology**	3		
ENG	101	Rhetoric & Composition I	3		
AVIA	133	Human Factors in Aviation	3		
Total Semester Credits					

Spring Semester			Semester Credits
ÁVIA		Air Traffic Control Systems**	3
AVIA		Federal Aviation Regulations**	3
AVIA		Aviation Management I	3
ENG	103	Technical Communication Writ	ing OR
		Communications Elective	3
MGMT	213	Human Relations in the Workpl	ace OR
		Instrument Flight Theory**	3
Human	Well-	Being Elective	2
Total Semester Credits			17
C 1	X 7		

Second Year				
Fall Semeste	Semester Credits			
AVIA 105	Introduction to Civil Aviation C)R		
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	Mgmt of Aircraft Maintenance	3		
Math*		4		
Total Semester Credits				

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Spring Semester Sem		ster Credits
AVIA 266 A	irport Planning and Management	3
AVIA 280 In	nternship	3
Human Relation	ns Elective	3
PSYC 151 G	General Psychology	3
	Human Resource Management OR	
	Human Relations in the Workplace	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

Aircraft Dispatcher Certificate (008A)						
First Se	First Semester Semester Credits					
AVIA	101	Private Pilot Flight Theory	4			
AVIA	260	Aviation Meteorology	3			
Second	Second Semester Semester Credits					
AVIA	131	Air Traffic Control Systems***	3			
AVIA	141	Federal Aviation Regulations***	3			
		Instrument Flight Theory	3			
Third S	Semest	ter	Semester Credits			
AVIA	240	Aircraft Dispatcher Practical I	3			
AVIA		Aircraft Dispatcher Practical II	3			
Total Program Credits 22						

Program can be entered in the fall or spring semester.

***Courses can also be accomplished in first semester.

Aviation Pilot Training – Airplane/Helicopter

swic.edu/pilot-training

Coordinator/Faculty: Keith Mueller, ext. 5683 email: keith.mueller@swic.edu

Dean: Bradley Sparks

SWIC offers a Federal Aviation Regulation-approved 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 and simulator programs are offered under FAR Part 141, flight is conducted under FAR part 61. The successful graduate holds a Commercial Pilot Certificate with Single-Engine, Multi-Engine and Instrument Rating. An optional Flight Instructor certificate is also available.

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.

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)

Associate in Applied Science Degree (0012)				
First Year				
Fall Semeste	r Semester Cro	edits		
AVIA 101	Private Pilot Flight Theory (Airplane) OR	4		
AVIA 111	Private Pilot Flight Theory Helicopter	3		
AVIA 102	Flight Training Private Part 1 (Airplane) OR			
AVIA 112		2		
AVIA 103				
AVIA 113	Simulator Private Helicopter	1		
AVIA 260	Aviation Meteorology	3		
ENG 101	Rhetoric & Composition I	3 3		
AVIA 122	Systems and Components	2		
Total Semest	ter Credits Airplane-15/Helicopte	r-14		
S	Samuelan Ca	. 4:4.		
Spring Seme AVIA 104		earts		
AVIA 114	_, ~, ~ ^	2-3		
AVIA 201		2-5		
AVIA 211	Instrument Flight Theory Helicopter	3		
ENG 103	Technical Communications OR	J		
	tions Elective	3		
	Simulator Intermediate (Airplane) OR	5		
	Simulator Intermediate Helicopter	1		
AVIA 131	Air Traffic Control Systems	3		
GT 105		5		
MATH 112		4		
(Check for tra		1		
Total Semes		r-16		
Total Scines	in Credits Implant 1//Hencopte	1 10		
Summer Sen		edits		
AVIA 202	Flight Training Instrument (Airplane) OR			
	Flight Training Instrument Helicopter	3		
AVIA 203				
	e (Helicopter)	1		
AVIA 151				
AVIA 161		3		
Total Semes	ter Credits	7		
Second Year				
Fall Semeste	r Semester Cro	edits		
	OR Social Science Elective	3		
AVIA 133	Human Factors in Aviation	3		
	Flight Training Commercial Part I OR			
AVIA 263	Flight Training Commercial Helicopter Part 1	2-3		
	tives	6		
Total Semes	ter Credits Airplane-15/Helicopte	r-14		
	•			

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Spring Semester Semester Cred	lits
AVIA 155 Flight Training Commercial II (Airplane) OR	
AVIA 265 Flight Training Commercial Helicopter Part II	2
AVIA 269 Multi Engine Flight Theory (Airplane) OR	
AVIA Elective (Helicopter Option)	1
AVIA 270 Flight Training Multi-Engine (Airplane) OR	
AVIA Elective (Helicopter)	1
AVIA Elective	4
Human Well-Being Elective	2
Human Relations Elective	3
Total Semester Credits	

Total Program Credits Airplane-67/Helicopter-64

Aviation Pilot Training – Airplane/Helicopter (continued)

Airplane Core Course: AVIA 101, AVIA 102, AVIA 103, AVIA 104, AVIA 201, AVIA 153, AVIA 202, AVIA 203, AVIA 151, AVIA 154, AVIA 155, 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		Se	mester Credits
AVIA	105	Introduction to Civil Aviation	3
AVIA	108	Aviation History	3
AVIA	126	UAS Pilot Certification	1
AVIA	141	Federal Aviation Regulations	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 Maintenan	nce 3
AVIA		Airport Planning and Management	
AVIA	280	Internship	3
*Applied	l to Fi	ixed 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 Se	emest	er Credits	13

Spring Seme	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	3
AVIA 269	Multi-Engine Flight Theory	1
Total Credit	14	

Summe	er Sem	Semester Credits	
AVIA	155	Flight Training Commercial II	2
		Flight Training Instrument	3
AVIA	203	Simulator Instrument	1
AVIA	270	Flight Training Multi-Engine	1
Total S	emest	7	

34

Private Pilot Certificate (012F)

Total Program Credits

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		Instrument Currency and Review

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

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

Commercial Maintenance Mechanics

swic.edu/maint-mech-commercial

Coordinator: Mark Bosworth, ext. 7457 email: mark.bosworth@swic.edu

Faculty: Lou Marino

Dean: Bradley Sparks

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	m Rec	uisite	Semester	Credits
PMT	100	Precision Machining Introduction	n	.5

First Year

Fall Semester			Semester Credits
PMT	101	Intro to the Machine Trades	4
EET	101	Intro to Electricity/Electronics	5
IML	120	Mechanical Blueprint Reading I	3
GT	104	Math for Electronics	4
HES	151	Personal Health and Wellness	2
Total Semester Credits			18.5

Spring Semes	Semester Credits			
EET 200	Digital Electronic Circuits I	3		
HVAR 100	Fitting, Fusion and Fabrication	4		
HVAR 103	Basic Electrical Controls & Syste	ms 4		
ENG 101	Rhetoric & Composition I	3		
Social Science	e Course	3		
Total Semester Credits				

Summer Semester

EET 243 NEC for Industrial/Commercial 3

Second Y	ear			
Fall Sem	ester	Semester Credits		
HVAR	101	Refrig. & A.C. Principles I	4	
HVAR 2	202	Commercial Refrigeration I	4	
IDP :	116	Industrial Pipefitter A	4	
Communication Course 3				
Total Semester Credits 15				

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Spring Semester Cree				
IĎP	126	Industrial Pipefitter B	4	
HVAR	153	Heating Fundamentals	4	
HVAR	205	Commercial Icemakers and Water Treatment	3	
EET	235	Programmable Logic Controllers	3	
Human Relations Course				
Total Semester Credits				
Total Program Credits				

Commercial Maintenance Mechanics Certificate (054K)

	EET	101	Intro to Electricity and Electronics	5
	EET	200	Digital Electronic Circuits I	3
	EET	243	NEC for Industrial/Commercial	3
	EET	235	Programmable Logic Controllers	3
	HVAR	100	Fitting, Fusion and Fabrication	4
	HVAR	101	Refrig. & A.C. Principles I	4
	HVAR	103	Basic Electrical Controls & Systems	4
	HVAR	153	Heating Fundamentals	4
	HVAR	202	Commercial Refrigeration I	4
	HVAR	205	Commercial Icemakers & Water Treatment	3
	IDP	116	Industrial Pipefitter A	4
			Math for Electronics	4
Total Credits				45

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/Faculty: Shauna Scribner, Ph.D., CMfgT, CD, CMI ext. 5376

email: shauna.scribner@swic.edu

Dean: Bradley Sparks

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.

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)

Associate in Applied Science Degree (0035)					
First Year					
Fall Semester		Semester Credits			
CAD 120	Introductory CAD	4			
CAD 101		4			
ENG 101	Rhetoric & Composition I	3			
	Intro to Technical Math OR				
MATH 112	College Algebra	4			
Total Semeste	r Credits	15			
Spring Semest	ter	Semester Credits			
	Intermediate Drafting	4			
CAD 220	Advanced CAD I	3			
	Advanced CAD II	4			
	R Social Science Elective	3			
	Fundamentals of Public Speaking				
	Interpersonal Communication	,			
Total Semeste		17			
		0 . 0 11.			
Summer Seme		Semester Credits			
	Supervised Internship III*	3			
Human Well-H Total Semester		2 5			
Total Semeste	Credits	,			
Second Year					
Fall Semester		Semester Credits			
	tecture/Structural Detail OR				
	ine OR General CAD Specializati				
Total Semeste	r Credits	16			
Apply for G	Graduation Now				
Spring Semest	ter	Semester Credits			
	tecture/Structural Detail OR				
	ine OR General CAD Specializati	ion Courses 12			
	Machine CAD POST Assessmen				
CAD 231	Architectural CAD POST Assess	ment 1			
Human Relatio		3			
Total Semeste	r Credits	16			

Students must take either CAD 222 Machine CAD Post Assessment or CAD 231 Arch CAD Post Assessment depending on their specialization. Students taking the General specialization must take CAD 222 Machine CAD Post Assessment.

Total Program Credits

69

*Students who wish to enroll in a Supervised Internship class in the fall should enroll in CAD 290; students who wish to enroll in a Supervised Internship class in the spring should enroll in CAD 291 Supervised Internship II, and students who wish to enroll in a supervised Internship class in the summer should enroll in CAD 292 Supervised Internship III.

Computer Aided Design (continued)

Computer Aided Design Specializations

Genera	al CA	ND	
CAD	100	Print Reading for Technical Trades	2
CAD		Manufacturing Processes & CAD Drawings OF	R 4
CAD	201	Introduction to Architectural Drafting	2
CAD	202	Structures Drafting	3
CAD		Civ Eng Drafting	3
CAD	204	Manufacturing Drafting	3
CAD	206	E & I Drafting	3
CAD	210	HVAC/EL/Plumb Drafting	3
CAD	225	MicroStation CAD	3
CAD	226	Intro to Geo Dim & Tolerance (GD&T)	3
CAD	230	3D Architectural CAD	2
CAD	231	Architectural CAD Post Assessment	1
CAD		Structural Detail Material, Codes, Standards	2
CAD		Structural Detail CAD	3
CAD		Basic Structural Detail Drafting	3
CAD	290	1 1	1-6
CAD	291	Supervised Internship II	1-6
CAD	292	Supervised Internship III	1-6
WLDT			6
		Weld Fabrication Blueprint Reading	3
MATH		Trigonometry	3
ENGR	251	Surveying	3
A . I			

Architecture/Structural Detail

CAD	100	Print Reading for Technical Trades	2
CAD	201	Introduction to Architectural Drafting (Required)	2
CAD	202	Structures Drafting	3
CAD	203	Civ Eng Drafting	3
CAD	210	HVAC/EL/Plumb Drafting	3
CAD	225	MicroStation CAD	3
CAD	230	3D Architectural CAD	2
CAD	231	Arch CAD Post Assessment (Structural Detail focus) 1
CAD	232	Structural Detail Mtl Cd Std (Structural Detail focu	us) 2
CAD	233	Structural Detail CAD (Structural Detail focus)	3
CAD	234	Basic Structural Detail Drafting (Structural Detail focu	ıs) 3
WLDT	101	Introduction to Welding (Structural Detail focus)	6
MATH	114	Trigonometry	3
CAD	290	Supervised Internship I	1-6
CAD	291	Supervised Internship II	1-6
CAD	292	Supervised Internship III	1-6
ENGR	251	Surveying	4

Twenty-eight semester credits of CAD specialization courses must be completed for the Architecture CAD degree. Only two CAD Supervised Internship courses may be taken to fulfill specialization requirements.

Machine

CAD	100	Print Reading for Technical Trades	3
CAD	200	Manufacturing Processes & CAD Drawings (Required	d) 4
CAD	204	Manufacturing Drafting	3
CAD	206	E & I Drafting	3
CAD	225	MicroStation CAD	3
CAD	226	Intro to Geo Dim & Tolerance (GD&T)	3
CAD	232	Structural Detail Mtl Cd Std	2
CAD	233	Structural Detail CAD	2
CAD	234	Basic Structural Detail Drafting	3
CAD	290	Supervised Internship I	1-6
CAD	291	Supervised Internship II	1-6
CAD	292	Supervised Internship III	1-6
MATH	114	Trigonometry	3
WLDT	101	Introduction to Welding	6
WLDT	106	Weld Fabrication Blueprint Reading	3

Twenty-eight semester credits of CAD specialization courses must be completed for the Machine CAD degree. Only two CAD Supervised Internship courses may be taken to fulfill specialization requirements.

Certificate (035D)

CAD	120	Introductory CAD	4
CAD	101	Basic Drafting	4
CAD	102	Intermediate Drafting	4
CAD		201 Manufacturing Prcs & CAD OR	
		duction to Architectural Drafting	2-4
CAD	220	Advanced CAD I	3
CAD	221	Advanced CAD II	4
CAD	222	Machine CAD Post Assessment OR	
CAD	231	Architectural CAD Post Assessment	1
CAD	225	MicroStation CAD	3
CAD	226	Intro to Geo Dim & Tolerance (GD&T)	3
MATH	112	College Algebra OR	
GT	105	Intro to Technical Mathematics	4
Architec	ture/S	Structural Detail OR Machine OR General	CAD
Specializ	zation	Courses	4-6
Total C	redits		36-40

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 Graphic Communications Office Administration & Technology Web Technologies

Coordinator/Faculty: Tim Brown, ext. 5502 Faculty: Lawrence Appelbaum, Matt Swinford

Dean: Janet Fontenot

The Computer Information Systems program offers an Associate in Applied Science degree for computer specialists and for application programmers. The program provides the technical skills and knowledge required for the effective utilization of computers in the business environment. The program also offers three Computer Information Systems options and several Computer Information Systems certificates.

2+2 Articulation Agreements

• SIUC – BS Information System Technologies

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 Yea	r			
Fall Semester			Semester Cre	edits	
	MATH	107	General Education Statistics (or higher)	4	
	CIS	180	Introduction to Programming	3	
	CIS	181	Operating System/Windows	3	
	CIS	185	Introduction to Information Technology	3	
	ENG	101	Rhetoric & Composition I	3	
	Human '	Well-Be	eing Elective	2	
	Total Semester Credits				

Spring Semester Semester C				
CIS	164	Internet Essentials	3	
CIS	174	Web Fundamentals I	3	
CIS	184	Visual Basic Programming I	3	
OAT	175	Electronic Spreadsheet	3	
NETW	101	Introduction to Networking	3	
SPCH	155	Interpersonal Communications OR	3	
SPCH	151	Fundamentals of Public Speaking		
Total Semester Credits				

Second Year					
Fall Semester		Semester	Credits		
EET	256	Preparation for A+ Certification	3		
CIS	195	Introduction to Databases	3		
CIS	246	Systems Development & Designs I	3		
CIS	252	C# Programming I	3		
OAT	185	Database Applications	3		
CIS Approved Electives					
Total So	Total Semester Credits 18				

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Spring S	Semeste	er Semester	Credits
ECON	201	Principles of Economics I (Macro)	3
CIS	275	SQL	3
CIS	297	Information Technology Internship	3
CIS Approved Electives			3
Human Relations Elective			
Total Semester Credits			15

69

Total Program Credits CIS Electives (0010)

		Semester	Credits
CIS	165	Python Programming	3
CIS	177	Web Development I	3
CIS	178	Administrative Scripting	3
CIS	179	Computer User Support	3
CIS	187	Web Programming I	3
CIS	212	Web Development II	3
CIS	241	Visual Basic for Applications	3
CIS	250	C++ Programming I	3
CIS	256	Web Server Programming	3
CIS	260	C++ Programming II	3
CIS	262	C# Programming II	3
CIS	263	Data Access	3
CIS	264	ASP	3
CIS	266	Database Design	3
CIS	274	Mobile Application Development	3
CIS	277	jQuery	3
CIS	284	Visual Basic Programming II	3
CIS	287	Web Programming II	3
CIS	288	Web Server Programming II	3

Requisites may be required for some courses. Refer to the *Course Description Guide* beginning on page 246.

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 of the Business Division and the vice president for Instruction. 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.

Career Opportunities

A graduate of the Computer Information Systems program is prepared to work as a(n):

- Programmer
- Applications programmer
- Customer support specialist
- Software specialist
- Information specialist
- Software developer

CIS Tech Support/Help Desk (010A)

The Computer Information Systems – Tech Support/
Help Desk program will meet the demand for information
technology professionals trained to support desktop computer
users. Students completing the program will be qualified to
troubleshoot hardware and software problems in the work
environment. Graduates will be expected to have the skills
needed to support users on all major applications. A basic
understanding of the internet and of a networked environment
will enable graduates to aid in conflict management and effective
user training. The skills gained in the program should allow
graduates to adapt to any environment.

First Year				
Fall Semester		ester	Semester Cre	edits
	MATH	107	General Education Statistics (or higher)	4
	NETW	101	Introduction to Networking	3
	CIS	181	Operating System/Windows	3
	CIS	185	Introduction to Information Technology	3
	ENG	101	Rhetoric & Composition I	3
Human Well-Being Elective				
Total Semester Credits				

Spring Semester		er	Semester Credits
CIS	180	Introduction to Programmin	g 3
CIS	179	Computer User Support	3
NETW	188	Windows Server I	3
OAT	175	Electronic Spreadsheet	3
OAT	180	Word Processing	3
SPCH	155	Interpersonal Communication	n 3
Total Ser	18		

Second Year				
	Semester Credits			
Network Security	3			
Administrative Scripting	3			
Microsoft Outlook	1			
Presentation Graphics	2			
Database Applications	3			
Preparation for A+ Certificati	on 3			
Total Semester Credits				
	Network Security Administrative Scripting Microsoft Outlook Presentation Graphics Database Applications Preparation for A+ Certificati			

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Spring S	emeste	er Semester	Credits
ECON	201	Principles of Economics I (Macro)	3
CIS Elec	tives	*	6
CIS	297	Information Technology Internship	3
Human 1	Relatio	ns Elective	3
Total Ser	mester	Credits	15
Total Pro	noram	Credits	66

CIS Electives (010A) Se			Credits
CIS	165	Python Programming	3
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	System Development and Design	3
CIS	275	SQL Programming	3
MGMT	213	Human Relations in the Workplace	3
CISC	106	Introduction to Cybersecurity	1
NETW	182	Linux Operating System	3
SPCH	151	Fundamentals of Public Speaking	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 CIS Tech Support/Help Desk (010A) 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 Business Division and the vice president for Instruction. 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.

Requisites may be required for some courses. Refer to the *Course Description Guide* beginning on page 246.

Career Opportunities

A graduate of the Tech Support/Help Desk program is prepared to work as a(n):

- Help desk coordinator
- Help desk analyst
- Help desk customer support representative
- Help desk technician
- Help desk specialist

Database Development & Management (010B)

The Computer Information Systems – Database Development & Management program offers an Associate in Applied Science degree to prepare students to be database developers and managers.

Application database developers perform tasks that involve construction, documentation, installation or maintenance of database systems. Database managers work with database management systems software and determine ways to organize and store data. They also set up computer databases and test and coordinate changes to them.

First Year				
Fall Semester		ester	Semester Cre	dits
	CIS	125	Operating System Basics	1
	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
	OAT	185	Database Applications	3
	Total Semester Credits			

Spring S	amasta	er Semester cr	adite	
	CIIICSTC	ocinicatei ei	cuits	
CIS	184	Visual Basic Programming I	3	
CIS	246	Systems Development & Design I	3	
CIS	275	ŚQL	3	
MATH	107	General Education Statistics (or higher)	4	
SPCH	151	Fundamentals of Public Speaking	3	
Human Well-Being Elective				
Total Semester Credits				

Second Year				
Fall semester		Semest	er Credits	
CIS	252	C# Programming I	3	
CIS	266	Database Design	3	
CIS	281	Database Programming	3	
ECON	201	Principles of Economics I (Macro)	3	
Human Relations Elective				
Total Semester Credits				

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Spring	Semeste	er Semester	Credits	
CIS	263	Data Access	3	
CIS	283	Database Administration	3	
CIS	297	Information Technology Internship	3	
CIS Approved Electives				
Total Semester Credits				
Total Program Credits				

tives ((010B)	Semester Credits
174	Web Fundamentals I	3
187	Web Programming I	3
212	Web Development II	3
241	Visual Basic for Applications	3
250	C++ Programming I	3
260	C++ Programming II	3
262	C# Programming II	3
264	ASP	3
284	Visual Basic Programming II	[3
287	Web Programming II	3
288	Web Server Programming II	3
101	Introduction to Networking	3
	174 187 212 241 250 260 262 264 284 287 288	Web Programming I Web Development II Web Development II Visual Basic for Applications C++ Programming I C++ Programming II C++ Programming II ASP Web Programming II Web Programming II Web Server Programming II

Requisites may be required for some courses. Refer to the *Course Description Guide* beginning on page 246.

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 Database Development & Management (010B) 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 Business Division and the vice president for Instruction. 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.

Career Opportunities

A graduate of the Database Development & Management program is prepared to work as a(n):

- Database analyst
- Database developer
- Database web developer
- Database programmer

Software Development (010C)

The Computer Information Systems Software Development degree provides students with the technical skills and knowledge to handle object-oriented programming requirements in support of the business community. Successful students will use various software development tools to develop platform independent applications written in one or more object-oriented programming languages. Students will develop data-driven software applications that query and manipulate data in a relational database management system. Before completing the degree, students will develop browser-enabled applications using client and server-side programming languages and technologies.

First Yea	ır		
Fall Semester		Semester Cre	edits
MATH	112	College Algebra	4
CIS	125	Operating System/Windows	1
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
Total Se	Total Semester Credits		

Spring Semester Sen			er Credits
CIS	174	Web Fundamentals I	3
CIS	252	C# Programming I	3
CIS	275	SQL	3
ECON	201	Principles of Economics I (Macro)	3
SPCH	151	Fundamentals of Public Speaking	3
Human Well-Being Elective			2
Total Semester Credits			

Second Year Fall Semester Semester Credits CIS Web Development I 177 CIS 184 Visual Basic Programming I 3 CIS 262 3 C# Programming II **CIS** 263 Data Access 3 3 Human Relations Elective

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Total Semester Credits

Spring	Semeste	r Semester	r Credits	
CIS	264	ASP	3	
CIS	246	Systems Development & Design I	3	
CIS	297	Information Technology Internship	3	
CIS Approved Electives				
Total Semester Credits			15	
Total Program Credits			64	

CIS Electives (010C)			ester Credits
CIS	165	Python Programming	3
CIS	187	Web Programming I	3
CIS	212	Web Programming II	3
CIS	241	Visual Basic for Applications	3
CIS	250	C++ Programming I	3
CIS	256	Web Server Programming I	3
CIS	260	C++ Programming II	3
CIS	274	Mobile Application Development	3
CIS	277	jQuery	3
CIS	281	Database Programming	3
CIS	284	Visual Basic Programming II	3
CIS	287	Web Programming II	3
CIS	288	Web Server Programming II	3

Requisites may be required for some courses. Refer to the Course Description Guide beginning on page 246.

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 CIS-Software Development (010C) 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 Business Division and the vice president for Instruction. 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.

Career Opportunities

A graduate of the Software Development program is prepared to work as a(n):

- Software developer
- Computer programmer
- Computer specialist

15

• Programmer analyst

Computer Management Information Systems (0116)

The Computer Management Information Systems degree is an Associate in Applied Science degree that provides students with two paths. The degree is designed to prepare students for entry into the job market as computer specialists or entry-level software developers while providing students with the requisite knowledge for transfer to a senior institution. Upon completion of the degree, students may seek employment and/or apply for a seamless transition to a senior institution.

Program RequisiteSemester CreditsCIS180Introduction to Programming3Must be taken before taking a programming course

First Yea	ır		
Fall Semester		Semester Cre	dits
ENG	101	Rhetoric & Composition I	3
SPCH	151	Fundamentals of Public Speaking	3
PHIL	151	Introductory Logic	3
CIS	185	Introduction to Information Technology	3
HIST	250	20th Century Western Civilization	3
IAI Lite	rature		3
Total Semester Credits			18

Spring S	emeste	r Semester o	credits
CIS	184	Visual Basic Programming I	3
MATH	213	Calculus for Business & Social Science	4
ECON	201	Principles of Economics I (Macro)	3
IAI Lab	Science	(Physical Sciences)	4
ENG	102	Rhetoric and Composition II	3
Total Semester Credits			

Second Year

~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				
Fall Semester		Semest	er Credits	
CIS	250	C++ Programming I	3	
ECON	202	Principles of Economics I (Micro)	3	
IAI Lab	IAI Lab Science (Life Science)			
BUS	205	Economic and Business Statistics	4	
CIS	246	Systems Development & Design I	3	
Total Semester Credits				

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Spring Semester Semester Credit				
		Financial Accounting	4	
CIS	187	Web Programming I	3	
CIS	252	C# Programming I	3	
Human '	Well-Be	eing Elective	2	
POLS	150	Introduction to American Government	3	
IAI Fine Arts				
Total Semester Credits				
Total Program Credits 70				

Enrollment in any math class is based on your score on the assessment placement test and proper requisite. Refer to the *Course Description Guide* beginning on page 246.

Career Opportunities

A graduate of the Computer Management Information Systems program is prepared for advanced study or employment in the information technology profession. The courses in the degree will apply toward the first two years of a baccalaureate degree at some four-year institutions. The Associate in Applied Science degree program prepares students for work as a:

- Software developer
- Computer programmer
- Software engineer
- Computer specialist
- Computer support specialist

Certificate Programs

Database Development (010D)

With many industries discovering the benefits of gathering and analyzing data, the demand for database developers is high. The Database Development certificate will provide the skills needed by database developers.

OAT	185	Database Applications	3
CIS	180	Introduction to Programming	3
CIS	195	Introduction to Databases	3
CIS	275	SQL	3
CIS	241	Visual Basic for Applications	3
CIS	252	C# Programming I	3
CIS	263	Data Access	3
CIS	281	Database Programming	3
Total Credits			24

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

Database Administration (010K)

The demand for database administration skills is also projected to be in high in coming years. The Database Administration certificate will provide the skills needed by database administrators.

OAT	185	Database Applications	3
CIS	180	Introduction to Programming	3
CIS	195	Introduction to Databases	3
CIS	275	SQL	3
CIS	266	Database Design	3
CIS	281	Database Programming	3
CIS	283	Database Administration	3
Total Credits			21

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

Visual Basic Programming (010F)

The Visual Basic Programming Certificate will prepare students for employment as Visual Basic programmers.

Total (Credits		6
CIS	284	Visual Basic Programming II	3
CIS	184	Visual Basic Programming I	3
,	. ,	1 0	

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

Computer Technology (010G)

The Computer Technology certificate is designed to provide basic computer skills for employees working in noncomputer related careers and professions. These employees must be able to use a computer to complete applications, manage files, and access the internet. The ability to use technology to plan, design, and implement strategies and projects — both locally and online — is a requirements for survival today in most organizations and industries. Completion of this certificate will ensure a basic understanding of the most used computer skills necessary for employment.

CIS 120 Introduction to the PC CIS 125 Operating System Basics 1 CIS 164 Internet Essentials 3 CISC 106 Introduction to Cybersecurity MGMT 240 Ethics in the Workplace NETW Introduction to Networking 3 101 Workplace Skills OAT 127 128 Microsoft Outlook 1 OAT OAT 146 Computer Applications for the Office 3 OAT 164 Introduction to Keyboarding 1 **Total Credits** 16

C# Programming (010J)

The C# Programming certificate will prepare students for employment as C# programmers.

Total C	redits		6
CIS	262	C# Programming II	3
CIŚ	252	C# Programming I	3

Java Programming (011F)

The Java Programming certificate will prepare students for employment as Java programmers.

Total (web i logiamining ii	6
CIS	287	Web Programming II	3
CIS	187	Web Programming I	3
1 /		5 1 0	

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

Construction Apprenticeship Training Programs

Apprenticeship Coordinator: Jim Moore, ext. 7458 email: jim.moore@swic.edu

Dean: Bradley Sparks

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 Jim Moore, director of Apprenticeship Training, SWIC.

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 <u>degree</u> 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 *Electrical/Electronics Technology* section of this catalog (page 164).

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.

Construction Bricklayer Associate in Applied Science Degree (039C) and Bricklayer Apprentice Certificate (040C)

First Yea	ar		
Fall Sen	iestei	Semester Cr	edits
BLA	118	Construction Bricklayer Apprentice I*	4
BLA		Construction Bricklayer Apprentice II*	4
CMT		Construction Blueprints & Specifications	3
		Construction Materials & Methods I	3 3 3
		Rhetoric & Composition I	3
		er Credits	17
Spring S	Semes	ster Semester Cr	edits
BLA		Construction Bricklayer Apprentice III*	4
BLA		Construction Bricklayer Apprentice IV*	4
		Occupational Safety & Health I	3
		Construction Materials & Methods II	3
		Construction Estimating – Cost Accounting	3
		er Credits	17
Second	Year		
Fall Sen	nester	Semester Cr	edits
BLA	258	Construction Bricklayer Apprentice V*	4
BLA	268	Construction Bricklayer Apprentice VI*	4
MGMT		Fundamentals of Labor Relations	3
Commu	nicat	ions Course	3
Humani	ities (OR Social Science Course	3 3 3

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Spring Semester		ster Semest	er Credits
ĆIS	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 Apprenticeship Training Programs (continued)

Construction Carpentry Associate in Applied Science Degree (039G) and Carpentry Apprenticeship Certificate (040G) First Year	Spring SemesterSemester CreditsCMA123Construction Cement Mason Apprentice II*4MGMT 221Fundamental of Labor Relations3CMT152Construction Materials & Methods II3CMT153Construction Estimating - Cost Accounting3
Fall Semester Credits CCA 11(C II all all all all all all all all all	Communications Course 3
CCA 116 Health & Safety I* 2 CCA 117 Shop Orientation* 2	Total Semester Credits 16
CCA 118 Concrete Formwork I* 2	Second Year
CCA 119 Concrete Formwork II* 2	Fall Semester Semester Credits
MGMT 221 Fundamentals of Labor Relations 3	CMA 133 Construction Cement Mason Apprentice III* 4
ENG 101 Rhetoric & Composition I 3	CMA 245 Construction Carpentry Apprentice IV* 4
Total Semester Credits 14	MGMT 213 Human Relations in the Workplace 3
Spring Semester Credits Semester Credits	ENGR 251 Surveying 3 Humanities OR Social Science Course 3
CCA 126 Residential Framing I* 2 CCA 127 Residential Framing II* 2	Total Semester Credits 17
CCA 128 Interior Systems Framing I* 2	27
CCA 129 Interior Systems Framing II*	Apply for Graduation Now
CCA 165 Construction Carpentry Internship I 4	
CMT 244 Occupational Safety & Health I 3	Spring Semester Semester Credits CMA 255 Construction Cement Mason Apprentice V* 4
Total Semester Credits 15	CMA 265 Construction Cement Mason Apprentice VI* 4
Second Year	BUS 101 Introduction to Business 3
Fall Semester Semester Credits CCA 236 Millwright Basics I* 2	HES 152 First Aid-Medical Self Help OR 2
CCA 237 Millwright Basics II* 2	HES 151 Personal Health and Wellness
CCA 238 Carpentry Welding Basics I* 2	Human Relations Course 3 Total Semester Credits 16
CCA 239 Carpentry Welding Basics II* 2	
CCA 270 Construction Carpentry Internship II 4	Total Program Credits 65
Communications Course 3 Humanities OR Social Science Course 3	*A Construction Cement Mason Apprentice Certificate will
Total Semester Credits 18	be given after the completion of the six courses marked with
Apply for Graduation Now	asterisks.
	Construction Electrical Specialist***
Spring Semester Semester Credits CCA 246 Safety Orientation I* 2	·
CCA 246 Safety Orientation I* 2 CCA 247 Safety Orientation II* 2	Associate in Applied Science Degree (039E)
CCA 248 Interior/Exterior Trim*	First Year
CCA 249 Intermediate Prints* 2	Fall Semester Credits
CCA 290 Construction Carpentry Internship III 4	IEW Certificate Courses** 8
CCA 290 Construction Carpentry Internship III 4 HES 152 First Aid-Medical Self Help OR 2	IEW Certificate Courses** 8 CMT 258 Contracts & Claims 3
CCA 290 Construction Carpentry Internship III 4 HES 152 First Aid-Medical Self Help OR 2 HES 151 Personal Health and Wellness	IEW Certificate Courses** 8
CCA 290 Construction Carpentry Internship III 4 HES 152 First Aid-Medical Self Help OR 2 HES 151 Personal Health and Wellness	IEW Certificate Courses** CMT 258 Contracts & Claims 3 ENG 101 Rhetoric & Composition I 3 Total Semester Credits 14
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	IEW Certificate Courses** CMT 258 Contracts & Claims 3 ENG 101 Rhetoric & Composition I 3 Total Semester Credits 14 Spring Semester Semester Credits
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	IEW Certificate Courses** CMT 258 Contracts & Claims 3 ENG 101 Rhetoric & Composition I 3 Total Semester Credits 14 Spring Semester Semester Credits IEW Certificate Courses**
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	IEW Certificate Courses** CMT 258 Contracts & Claims 3 ENG 101 Rhetoric & Composition I 3 Total Semester Credits 14 Spring Semester Semester Credits IEW Certificate Courses** MGMT 221 Fundamentals of Labor Relations 3
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.	IEW Certificate Courses** CMT 258 Contracts & Claims 3 ENG 101 Rhetoric & Composition I 3 Total Semester Credits 14 Spring Semester Semester Credits IEW Certificate Courses**
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	IEW Certificate Courses** CMT 258 Contracts & Claims 3 ENG 101 Rhetoric & Composition I 3 Total Semester Credits 14 Spring Semester Semester Credits IEW Certificate Courses** MGMT 221 Fundamentals of Labor Relations 3 Communications Course 3
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	IEW Certificate Courses** CMT 258 Contracts & Claims 3 ENG 101 Rhetoric & Composition I 3 Total Semester Credits 14 Spring Semester Semester Credits IEW Certificate Courses** MGMT 221 Fundamentals of Labor Relations 3 Communications Course 3 CIS Elective (requires coordinator approval) 3 Total Semester Credits 17
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	IEW Certificate Courses** CMT 258 Contracts & Claims 3 ENG 101 Rhetoric & Composition I 3 Total Semester Credits 14 Spring Semester Semester Credits IEW Certificate Courses** MGMT 221 Fundamentals of Labor Relations 3 Communications Course 3 CIS Elective (requires coordinator approval) 3 Total Semester Credits 17 Second Year
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	IEW Certificate Courses** CMT 258 Contracts & Claims 3 ENG 101 Rhetoric & Composition I 3 Total Semester Credits 14 Spring Semester Semester Credits IEW Certificate Courses** MGMT 221 Fundamentals of Labor Relations 3 Communications Course 3 CIS Elective (requires coordinator approval) 3 Total Semester Credits 17
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	IEW Certificate Courses** CMT 258 Contracts & Claims ENG 101 Rhetoric & Composition I Total Semester Credits Spring Semester Semester Credits IEW Certificate Courses** MGMT 221 Fundamentals of Labor Relations Communications Course CIS Elective (requires coordinator approval) Total Semester Credits Second Year Fall Semester Fall Semester Semester Credits IEW Certificate Courses** Bemester Credits Semester Credits Semester Credits Semester Credits Semester Credits A B B B B B B B B B B B B B B B B B B
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	IEW Certificate Courses** CMT 258 Contracts & Claims ENG 101 Rhetoric & Composition I Total Semester Credits Spring Semester Semester Credits IEW Certificate Courses** MGMT 221 Fundamentals of Labor Relations Communications Course CIS Elective (requires coordinator approval) Total Semester Credits 17 Second Year Fall Semester Fall Semester IEW Certificate Courses** HES 152 First Aid-Medical Self Help OR HES 151 Personal Health and Wellness
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	IEW Certificate Courses** CMT 258 Contracts & Claims ENG 101 Rhetoric & Composition I Total Semester Credits Spring Semester Semester Credits IEW Certificate Courses** MGMT 221 Fundamentals of Labor Relations Communications Course 3 CIS Elective (requires coordinator approval) 3 Total Semester Credits 17 Second Year Fall Semester Fall Semester Fall Semester Fall Semester Semester Credits IEW Certificate Courses** HES 152 First Aid-Medical Self Help OR HES 151 Personal Health and Wellness Human Relations Course 3
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	IEW Certificate Courses** CMT 258 Contracts & Claims ENG 101 Rhetoric & Composition I Total Semester Credits Spring Semester Semester Credits IEW Certificate Courses** MGMT 221 Fundamentals of Labor Relations Communications Course CIS Elective (requires coordinator approval) Total Semester Credits 17 Second Year Fall Semester Fall Semester Fall Semester Fall Semester Semester Credits HES 152 First Aid-Medical Self Help OR HES 151 Personal Health and Wellness Human Relations Course 3 CMT 257 Construction Planning & Scheduling 3
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	IEW Certificate Courses** CMT 258 Contracts & Claims ENG 101 Rhetoric & Composition I Total Semester Credits Spring Semester Semester Credits IEW Certificate Courses** MGMT 221 Fundamentals of Labor Relations Communications Course 3 CIS Elective (requires coordinator approval) Total Semester Credits Second Year Fall Semester Fall Semester Fall Semester Semester Credits IEW Certificate Courses** BHES 152 First Aid-Medical Self Help OR HES 151 Personal Health and Wellness Human Relations Course CMT 257 Construction Planning & Scheduling Total Semester Credits 16
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	IEW Certificate Courses** CMT 258 Contracts & Claims ENG 101 Rhetoric & Composition I Total Semester Credits Spring Semester Semester Credits IEW Certificate Courses** MGMT 221 Fundamentals of Labor Relations Communications Course CIS Elective (requires coordinator approval) Total Semester Credits 17 Second Year Fall Semester Fall Semester Fall Semester Fall Semester Semester Credits HES 152 First Aid-Medical Self Help OR HES 151 Personal Health and Wellness Human Relations Course 3 CMT 257 Construction Planning & Scheduling 3

Construction Apprenticeship Training Programs (continued)

Spring Semester IEW Certificate Courses**	nester Credits	* All IEW courses are approved for the AAS degree except IEW 111 and IEW 112
CMT 103 Construction Materials & Methods CMT 153 Construction Estimating-Cost According	I 3	** Students may only enroll in courses listed in their chosen
Humanities OR Social Science Course	3	certificate
Total Semester Credits	17	Construction Ironworker
Total Program Credits	64	Associate in Applied Science Degree (039D)
***For those students not admitted to the apprentic	ceship	and Ironworker Apprentice Certificate (040D)
program and who would like to pursue training in		First Year
electronics field, please see the <i>Electrical/Electronics</i>	Technology	Fall Semester Semester Credits
section of this catalog.	1- (0.40E)	IWA 119 Construction Ironworker Apprentice I* 4
Construction Electrical Wireman Certific	• •	MGMT 213 Human Relations in the Workplace 3
IEW 111 IBEW Electrician Inside Wireman II IEW 112 IBEW Electrician Inside Wireman II		ACCT 105 Basic Accounting Procedures 3 Technical Elective 2
IEW 113 IBEW Electrician Inside Wireman I		CIS 120 Introduction to the PC AND
IEW 114 IBEW Electrician Inside Wireman Γ		CIS 160 Internet Basics OR 1
IEW 211 IBEW Electrician Inside Wireman V		Higher Level CIS courses with approval of coordinators
IEW 212 IBEW Electrician Inside Wireman V		Total Semester Credits 14
IEW 213 IBEW Electrician Inside Wireman V		
IEW 214 IBEW Electrician Inside Wireman V		Spring Semester Credits
IEW 215 IBEW Electrician Inside Wireman IIEW 216 IBEW Electrician Inside Wireman X		IWA 129 Construction Ironworker Apprentice II* 4
IEW 118 IBEW Elec Wireman Internship I	4	IWA 139 Construction Ironworker Apprentice III* 4 CMT 244 Occupational Safety & Health 3
IEW 218 IBEW Elec Wireman Internship II	4	ENG 101 Rhetoric & Composition I 3
Total Credits	48	Total Semester Credits 14
Construction Electrical Residential (0	40H)	Summer Semester Semester Credits
IEW 131 IBEW Electrician Residential I	4	ENGR 251 Surveying 3
IEW 132 IBEW Electrician Residential II	4	IWA 249 Construction Ironworker Apprentice IV* 4
IEW 233 IBEW Electrician Residential III	4	Total Semester Credits 7
IEW 234 IBEW Electrician Residential IV	4	
IEW 235 IBEW Electrician Residential V	4	Second Year
IEW 236 IBEW Electrician Residential VI IEW 138 IBEW Elec Residential Internship I	4 4	Fall Semester Semester Credits
IEW 238 IBEW Elec Residential Internship II		IWA 259 Construction Ironworker Apprentice V* 4
Total Semester Credits	32	IWA 269 Construction Ironworker Apprentice VI* 4 HES 152 First Aid-Medical Self Help OR 2
		HES 151 Personal Health and Wellness
Construction Electrical Telecom (040)		Communications Course 3
IEW 151 IBEW Electrician Installer/Tech I	4	Humanities OR Social Science Course 3
IEW 152 IBEW Electrician Installer/Tech II IEW 153 IBEW Electrician Installer/Tech III	4 4	Total Semester Credits 16
IEW 154 IBEW Electrician Installer/Tech IV	4	4 1 C C 1 . N
IEW 251 IBEW Electrician Installer/Tech V	4	Apply for Graduation Now
IEW 252 IBEW Electrician Installer/Tech VI	4	Spring Semester Semester Credits
IEW 157 IBEW Elec Install/Tech Internship I		IWA 279 Construction Ironworker Apprentice VII* 4
IEW 257 IBEW Elec Install/Tech Internship I		IWA 289 Construction Ironworker Apprentice VIII* 4
Total Semester Credits	32	BUS 101 Introduction to Business 3
Construction Electrical Lineman (040	J)	Human Relations Course 3
IEW 141 IBEW Electrician Lineman I	4	Total Semester Credits 14
IEW 142 IBEW Electrician Lineman II	4	Total Program Credits 65
IEW 241 IBEW Electrician Lineman III	4	*An Ironworker Apprentice Certificate will be given after the
IEW 242 IBEW Electrician Lineman IV	4	completion of the eight courses marked with asterisks.
IEW 243 IBEW Electrician Lineman V	4	
IEW 244 IBEW Electrician Lineman VI IEW 145 IBEW Elec Lineman Internship I	4 4	Students shall meet all institutional requirements for the
IEW 245 IBEW Elec Lineman Internship II	4	Associate in Applied Science degree.
Total Semester Credits	32	

Construction Apprenticeship Training Programs (continued)

Construction Painting and Decorating
Associate in Applied Science Degree (039F)
and Painting and Decorating Apprentice
Certificate (040F)

First Ye	ar		
Fall Sen	nester	Semester Ci	edits
PDA	117	Painting & Decorating Apprentice I*	4
PDA	127	Painting & Decorating Apprentice II	4
		ions Course	3
CMT	102	Construction Blueprints & Specifications	3
		Construction Materials & Methods I	3
Total Se	emest	er Credits	17
Spring	Seme	ster Semester Ci	edits
PDA	137	Painting & Decorating Apprentice III*	4
PDA	257	Painting & Decorating Apprentice V*	4
		Basic Accounting Procedures	3
MGMT	213	Human Relations in the Workplace	3
CMT	153	Construction Estimating - Cost Accounting	3
Total Semester Credits			17
Second	Year		
Fall Sen	nestei	Semester Ci	redits
PDA	267	Painting & Decorating Apprentice VI*	4
MGMT	221	Fundamentals of Labor Relations	3
ENG	101	Rhetoric & Composition I	3
Humanities OR Social Science Course			3
Total Semester Credits			

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Spring	Semes	ster 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	
Comm	unicat	ions Course	3
Total S	emest	er Credits	13
Total P	roorai	m Credits	60
101111	10514	in Cicuits	00

^{*}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 Ye	ar		
Fall Sen	nester	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			

Spring	Semes	ster Semester Cr	edits
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
	Fundamentals of Labor Relations	3
Communication	ons Course	3
Humanities O	R Social Science Course	3
Total Semester	r Credits	17

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Spring Semester		ster Semester C	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			

*A Sheetmetal Apprentice Certificate will be given after the completion of the eight courses marked with asterisks.

Requisites may be required for some courses. Refer to the *Course Description Guide* beginning on page 246.

Career Opportunities

Completing an apprenticeship in building trades is not a deadend 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
- Construction manager
- Insurance adjuster
- Estimator
- Bonding agent
- Building inspector
- Engineer
- Job-site superintendent
- Architect's representative at a job site
- Foreman

Construction Management Technology

swic.edu/cmt

Coordinator/Faculty: Charles "Jim" Laing, ext. 5209 email: charles.laing@swic.edu

Dean: Bradley Sparks

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.

Associate in Applied Science Degree (0039)

First Ye	ar		
Fall Semester		Semester Credits	
CMT	100	Introduction to Construction*	2
CMT	102	Construction Documents	3
ACCT	105	Basic Accounting Procedures	3
GT	105	Introduction to Technical Math	4
ENG	101	Rhetoric & Composition I	3
Total Se	emest	15	

Spring Semester		ster Semester	r Credits
CMT	103	Materials & Methods I	3
CMT	153	Construction Estimating (Spring Only)	3
CMT	206	Building Systems (MEP) (Spring Only)	3
CMT	244	Occupational Safety and Health I	3
Communications Course			3
Total Semester Credits			15

Summer Semester Semester Credits		
Materials and Methods II (Summer Only)	3	
er Credits	3	
Semester Cre	dits	
Computer Apps for Construction (Fall Only)	4	
Planning and Scheduling (Fall Only)	3	
Contracts and Claims	3	
Surveying	3	
First Aid-Medical Self Help	2	
Total Semester Credits		
	Materials and Methods II (Summer Only) er Credits Semester Cre Computer Apps for Construction (Fall Only) Planning and Scheduling (Fall Only) Contracts and Claims Surveying First Aid-Medical Self Help	

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Spring	Seme	ster Semeste	r Credits
CMT	150	Internship**	3
CMT	268	Project Administration (Spring Only)	2
CMT	265	Advanced Computer Applications (Spring	g Only) 4
Human Relations Course 3			
Total S	emest	er Credits	12
Total P	roorai	m Credits	60

Total Program Credits

*CMT 145 Building Trades Craft Survey I substitutes for CMT 100

**CMT 146 Building Trades Craft Survey II substitutes for CMT Internship

ANY college-level course approved by the program coordinator

There are requisites for some courses. Refer to the *Course Description Guide* beginning on page 246.

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

Certificate Programs

CMT Certificate (0040) - 35 semester credits/ 4 semesters

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	2
CMT	102	Construction Documents	3
CMT	103	Construction Materials & Methods I	3
CMT	105	Computer Applications for Construction	4
CMT	152	Construction Materials and Methods II	3
CMT	153	Construction Estimating	3
CMT	206	Building Systems (MEP)	3
CMT	244	Occupational Safety & Health I	3
CMT	257	Construction Planning & Scheduling	3
CMT	258	Contracts and Claims	3
CMT	268	Project Administration	2
ENGR	251	Surveying	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) - 8 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	4
CMT	265	Advanced Computer Applications	4
Total Credits			8

Building Trades Safety (036C) - 11 semester credits/DC & 2 semesters

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* (Summer O	nly) 4
CMT	146	Building Trades Craft Survey II** (Summer C	Only) 4
CMT	244	Occupational Safety and Health I	3
Total Credits			11

*CMT 145 OR any construction apprenticeship building course substitutes for CMT 100

**CMT 146 OR any construction apprenticeship building course substitutes for CMT Internship

Some courses have requisites. Refer to the *Course Description Guide* beginning on page 246.

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 31 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	Creatts
CMT	100	Introduction to Construction	2
CMT	102	Construction Documents	3
CMT	103	Materials and Methods I	3
CMT	152	Materials and Methods II	3
CMT	153	Construction Estimating	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
CMT	268	Project Administration	2

Culinary Arts and Food Management

swic.edu/culinary

Coordinator/Faculty: Leisa Brockman, ext. 7389/5436 Faculty: Thomas Noonan

Dean: Janet Fontenot

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 four 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.

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.

2+2 Articulation Agreements

AAS Culinary Arts & Food Management:

- SIUC BS Hospitality and Tourism Administration **AAS 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 Yea	ır		
Fall Sem	ester	Semester Cr	edits
CUL	116	Food Service Sanitation	1
		(or valid Food Handler's Certificate)	
CUL	101	Introduction to Culinary Arts	1
ENG	101	Rhetoric & Composition I	3
BUS	102	Business Mathematics OR	
MGMT	102	Business Mathematics	3
CUL	115	Table Service	2
CUL	110	Professional Food Preparation I	5
CIS	120	Introduction to the PC	1
OAT	132	Electronic Spreadsheet Basics	1
Total Se	meste	er Credits	17
First Yea	ır		
Spring S			edits
SPCH	151	Fundamentals of Public Speaking	3
		Basic Accounting Procedures	3
		First Aid-Medical Self Help	2 5
		Professional Food Preparation II	5
	105	Food, Beverage, Labor Cost Control	3
CUL		Baking & Pastry	2
Total Se	meste	er Credits	18
Second?			
Fall Sem			edits
SOC	153	, 6,	3
		Legal Aspects of Food Service Management	3
CUL	228	Culinary Nutrition for Food Service	3

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Total Semester Credits

Total Program Credits

114 Garde Manger

Humanities **OR** Social Science Elective

CUL

209 Hospitality Management

Second	Year		
Spring Semester			Semester Credits
CUL	206	Menu Development & Pricing	3
CUL	212	Food Service Purchasing	3
BUS	101	Introduction to Business	3
MKT	126	Introduction to Marketing	3
CUL	230	Internship I	3
CUL	Elect	ive	3
Total Semester Credits			18

3

3

18

71

Students must meet all institutional requirements for the Associate in Applied Science degree.

Culinary Arts and Food Management (continued)

CUL Electives Se	mester Credits	Second Year	
CUL 112 Advanced Professional Cooking	3	Fall Semester Semester Cre	edits
CUL 113 Soups, Stocks and Sauces	3	SOC 153 Introductory Sociology	3
CUL 128 Advanced Professional Baking	2	CUL 123 Legal Aspects of Food Service Management	3
· · · · · · · · · · · · · · · · · · ·	2	CUL 228 Culinary Nutrition for Food Service	3
		CUL 232 Advanced Decorating Techniques	4
CUL 130 Cake Decorating II	2		
CUL 131 Experimental Baking Techniques	2	CUL 133 Sustainable Kitchen	2
CUL 132 Ice Cream and Frozen Desserts	2	CUL 131 Experimental Baking Techniques	2
CUL 133 Sustainable Kitchen	2	Total Semester Credits	17
CUL 200 Culinary Competition	2		
CUL 231 Internship II	3	Apply for Graduation Now	
CUL 232 Advanced Decorating Techniques	4		
CUL 233 Contemporary Plating Techniques	2	Second Year	
CUL 234 Breads, Bakeries, and Pastries	2	Spring Semester Semester Cre	edits
CUL 299 Special Topics (with coordinator's a		CUL 206 Menu Development & Pricing	3
2)) opecial repres (mail esserantations a	pprovide) 13	CUL 212 Food Service Purchasing	3
Sama causes have requisited Defer to the Course	Description	CUL 230 Internship I	3
Some courses have requisites. Refer to the <i>Course</i>	Description	Human Relations Elective	3
Guide beginning on page 246.			2
C O		CUL 209 Hospitality Management	3
Career Opportunities		CUL 234 Breads, Rolls & Pastries	2
A graduate of the Culinary Arts and Food Manage	ement program	Total Semester Credits	17
is prepared to work as a:			
• Chef		Total Program Credits	65
Assistant manager			
 Assistant food and beverage manager 			
Entry-level food service manager		Certificate Programs	
Kitchen manager			
Catering manager		Food Service (066B)	
Production supervisor		CUL 116 Food Service Sanitation OR	1
1 Toduction supervisor		Valid Food Handler's Certificate	
Paking and Pacture		CUL 101 Introduction to Culinary Arts	1
Baking and Pastry	(OCCE)	CUL 110 Professional Food Preparation I	5
Associate of Applied Science Degree	(UDDF)	CIS 120 Introduction to the PC	1
		OAT 132 Electronic Spreadsheet Basics	1
First Year			
	mester Credits		5 3 3
CUL 116 Food Service Sanitation	1	CUL 112 Advanced Professional Cooking	2
CUL 101 Introduction to Culinary Arts	1	CUL 209 Hospitality Management	
ENG 101 Rhetoric & Composition I	3	CUL 228 Culinary Nutrition for Food Service	3
MGMT 102 Business Mathematics OR		Total Credits	23
BUS 102 Business Mathematics	3		
CUL 110 Professional Food Preparation I	5	Food Service and Management (066C)	
CUL 127 Baking & Pastry	2	Food Service Certificate (066B)	23
CUL 129 Cake Decorating I	2	CUL 212 Food Service Purchasing	3
		CUL 230 Internship I	3
Total Semester Credits	17	CUL 231 Internship II	3
T1 X7		CUL 123 Legal Aspects of Food Service Management	3
First Year			3
1 8	mester Credits	CUL Elective Total Credits	
SPCH 151 Fundamentals of Public Speaking	3	Total Credits	38
HES 152 First-Aid Medical Self-Help	2		
•			
CUL 132 Ice Cream & Frozen Desserts	2		
CUL 105 Food, Beverage, Labor Cost Contro			
CUL 105 Food, Beverage, Labor Cost Contro CUL 128 Advanced Professional Baking	ol 3 2		
CUL 105 Food, Beverage, Labor Cost Contro	ol 3		

Culinary Arts and Food Management (continued)

Culinary Arts (066D)

CUL	116	Food Service Sanitation OR	1
		Valid Food Handler's Certificate	
CUL	101	Introduction to Culinary Arts	1
CUL	110	Professional Food Preparation I	5
CUL	111	Professional Food Preparation II	5
CUL	112	Advanced Professional Cooking	3
CUL	127	Baking & Pastry	2
CUL	209	Hospitality Management	3
CUL	228	Culinary Nutrition for Food Service	3
Total Credits			23

Baking & Pastry (066E)

CUL	116	Food Service & Sanitation OR	1
		Valid Food Handler's Certificate	
CUL	101	Introduction to Culinary Arts	1
CUL	105	Food, Beverage & Labor Cost Control	3
CUL	110	Professional Food Preparation I	5
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		Ice Cream and Frozen Desserts	2
CUL	133	Sustainable Kitchen	2
CUL	209	Hospitality Management	3
CUL		Culinary Nutrition for Food Service	3
CUL	232	Advanced Decorating Techniques	4
CUL	233	Contemporary Plating Techniques	2
CUL	234	Breads, Rolls and Pastries	2
CUL	230	Internship I	3
Total C	redits		41

Some courses have requisites. Refer to the *Course Description Guide* beginning on page 246.

Career Opportunities

- Bakery manager/owner
- Pastry chef

Cybersecurity and Networking

swic.edu/cybersecurity

For more computer classes, see: Computer Information Systems Graphic Communications Office Administration and Technology Web Technologies

Coordinator/Faculty: Matt Swinford, ext. 7374 Faculty: Steve Bushong

Dean: Janet Fontenot

The SWIC Associate in Applied Science degree in Cybersecurity and Networking is designed to prepare students with the necessary skills to obtain entry-level positions in the growing fields of cybersecurity and networking.

The core curriculum prepares students to successfully complete the Cisco Certified Entry Networking Technician, Cisco Certified Network Associate-Routing and Switching certification, CompTIA's Security+ certification and Microsoft's Windows Server Administration Fundamentals certification. Other professional certification target areas include CompTIA's A+certification and the Cisco Certified Network Associate-Security certification from Cisco Systems Inc.

See 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.

2+2 Articulation

SIUC – BS Information Systems Technologies

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 (0007)

First Year	•		
Fall Semester			Semester Credits
CISC	106	Introduction to Cybersecurity	1
CISC	151	Cisco Network Essentials	4
CISC	152	Cisco Routing and Switching	4
NETW	101	Introduction to Networking	3
ENG	101	Rhetoric & Composition I	3
Human V	Well-Be	ing Elective	2
Total Semester Credits 1			

Spring Semester			Semester Credits	
CISC	116	Cisco Cybersecurity Essentials	2	
CISC	153	Cisco Scaling Networks	4	
CISC	154	Cisco Connecting Networks	4	
Human Relations Elective 3				
Communications Elective 3				
Total Semester Credits 16				

Second Year				
Fall Semester		Semes	ster Credits	
AOJ	258	Computer Forensics & Cyber Crim	e 3	
CISC	241	Cisco Voice over IP	3	
NETW	188	Windows Server I	3	
NETW	211	Digital Forensics	3	
MATH	107 c	or higher level	4	
Total Semester Credits			16	

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Spring Semester			Semester Credits	
CISC	201	Cisco CCNA Security	4	
NETW	142	Network Design	3	
NETW	271	Network Security	3	
Humanities OR Social Science Elective				
Approved Networking Elective 3				
Total Semester Credits				

Total Program Credits 65

Approved	1 Netw	orking Electives So	emester Credits
CĨŜ	179	Computer User Support	3
EET	256	Preparation for A+ Certification	n 3
NETW	182	Linux Operating System	3
NETW	261	Emerging Network Technologie	es 3
NETW	295	Networking Internship	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 Cybersecurity and Networking 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 Business Division and the vice president for Instruction. 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* beginning on page 246.

Cybersecurity and Networking (continued)

Career Opportunities

A graduate of the Cybersecurity and Networking program is prepared to work as a(n):

- Account representative
- Assistant network manager
- Email administrator
- Engineer network installer
- Firewall administrator
- Forensics expert
- Help desk specialist
- Help desk technician
- Information security analyst
- Network administrator
- Network communications

- Network security manager
- Network support specialist
- Network technician
- Network troubleshooter
- Operations analyst
- Security engineer
- Systems administrator
- Systems engineer
- Systems manager
- Vulnerability assessor
- WAN/LAN engineer

Certificate Programs

Network Associate Certificate (007A)

The Network Associate Certificate provides coursework for a range of networking subjects – from basics such as making cables and setting up simple networks, to the more complex concepts of IP addressing strategies and WAN technologies. Courses also include the topics of basic network design, network components and router configurations. Students will gain hands-on experience with network equipment – including routers and switches – as part of their education.

Four classes are required to achieve the Network Associate Certificate from SWIC. These courses also prepare the student for the Cisco Certified Network Associate certification through Cisco Systems Inc.

The *Course Description Guide* begins on page 246 and courses are listed alphabetically according to subject area.

CISC	151	Cisco Network Essentials	4
CISC	152	Cisco Routing and Switching	4
CISC	153	Cisco Scaling Networks	4
CISC	154	Cisco Connecting Networks	4
Total C	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:

- LAN/WAN manager
- Network administrator
- Network specialist
- Network support technician

Cybersecurity Specialist (007D)

The Cybersecurity Specialist certificate prepares students for the field of cybersecurity as it relates to securing information and communication systems to protect them from damage, exploitation, and unauthorized use or modification. Cybersecurity specialists plan, implement, upgrade, or monitor security measures to safeguard digital files and electronic infrastructure. The coursework includes the concepts, principles, methods, techniques, practices and procedures needed for a cybersecurity specialist.

Students who complete the Cybersecurity Specialist certificate will be prepared for the following professional certification exams: CompTIA Security+, Cisco Certified Network Associate – Routing and Switching, Cisco Certified Entry Networking Technician, Cisco Certified Network Associate – Security, and Microsoft Technology Associate – Windows Server Administration Fundamentals.

The *Course Description Guide* begins on page 246 and courses are listed alphabetically according to subject area.

Fall Sen	1ester		Semester Credits
CISC	106	Introduction to Cybersecurity	1
CISC	151	Cisco Network Essentials	4
CISC	152	Cisco Routing and Switching	4
NETW	188	Windows Server I	3
NETW	211	Digital Forensics	3
AOJ	258	Computer Forensics & Cyber Cr	ime 3
Total Semester Credits			18

Spring S	Semes	Semester Credits		
CISC	116	Cisco Cybersecurity Essentials	2	
CISC	153	Cisco Scaling Networks	4	
CISC	154	Cisco Connecting Networks	4	
CISC	201	Cisco CCNA Security	4	
NETW	271	Network Security	3	
Total Semester Credits 17				
Total C	redits	35		

Career Opportunities

A student who completes the Cybersecurity Specialist certificate is prepared to work as a(n):

- Data assurance specialist
- Firewall specialist
- Network security specialist
- Security administrator
- VPN specialist

Early Childhood Education

swic.edu/early-childhood-aas

Coordinator/Faculty: Carolyn Beal

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:

www.isbe.net/licensure/html/paraprofessional_applying.htm.

2+2 Articulation Agreements

• SIUE – BS 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 Educa	ation 3			
ECE 112	Growth & Development of Chi	ldren 3			
ENG 101	Rhetoric & Composition I	3			
SOC 153	Introductory Sociology	3			
MGMT 102	Business Mathematics OR	3-4			
MATH 097	Intermediate Algebra or higher				
Total Semester Credits 15-16					
Spring Semester Semester Credits					

Spring S	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		Child, Family and Community	3
Lab Scie	4		
Total Semester Credits			18

Second Year		
Fall Semest	Semester Credits	
Technology	Elective	3
ECE 11	6 Children with Special Needs	3
ECE 11	8 Early Childhood Practicum I	3
ECE 12	1 Early Childhood Curriculum	3
LIT 29	3 Children's Literature OR	
LIT 11	3 Introduction to Fiction	3
Humanities	Course	3
Total Semester Credits		

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Spring Semester	Semester Credits	
ECE 125 Early Childhood Administratio	n 3	
ECE Elective	3	
CUL 116 Food Service Sanitation	1	
HES 152 First Aid-Medical Self Help*	2	
Humanities Course		
Any 100-level or higher course		
Total Semester Credits		
Total Program Credits		

*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

Certificate (0072)

Fall Sem	ester	Semeste	er Credits
ECE	110	Intro to Early Childhood Education	3
ECE	112	Growth & Development of Children	3
ECE		Child Health Maintenance	3
ENG	101	Rhetoric & Composition I	3
PSYC	151	General Psychology	3
SOC	153	Introduction to Sociology	3
Total Semester Credits 18			

Spring Semester			Semester Credits
ECE	116	Children with Special Needs	3
ECE	118	Early Childhood Practicum I	3
ECE	121	Early Childhood Curriculum	3
ECE	250	Child, Family and Community	3
ECE Ele		•	3
Total Semester Credits 15			
Total Credits			33

Some courses have requisites. Refer to the Course Description Guide beginning on page 246.

Early Childhood Education Electives

ECE	122	Infant and Toddler Care
ECE	200	ECE Leadership & Supervision
ECE		Understanding & Guiding Behavior
		of Young Children
A E.C		Cm a at al Tamtas assumas

Any ECE 299 Special Topics course

Technology Electives

ED	260	Educational Technology
OAT	156	Microsoft Office Suite I
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)

Electrical/Electronics Technology Programs

Associate in Applied Science Degrees and/or Certificate Programs in

- Industrial Electricity
- Electronics Technology
- Electrical Technology
- Automated Manufacturing Systems
- Microcomputer Hardware Repair

Career Degrees and Certificates swic.edu/electrical

Coordinator: Mark Bosworth, ext. 7457 email: mark.bosworth@swic.edu

Faculty: Nicholas Douglas, ext. 7456 email: nicholas.douglas@swic.edu

Dean: Bradley Sparks, ext. 7420 email: bradley.sparks@swic.edu

Electrical and electronic devices, circuits, equipment and systems play a major role in countless aspects of the world in which we live and work. Computers, cell phones, home appliances, heating/ cooling systems, cars, lighting, hospital equipment, industrial and manufacturing systems, alternative energy systems, and an almost endless list of other items, all use some form of electronic circuitry and electrical power to perform their various functions. In many respects, electricity/electronics is the major and most universal component common to this almost endless list of technologies that surround us and that we encounter and use daily. Developing, building and maintaining these ever-expanding and increasingly complex electrically driven technologies will require well-trained electricians and electronic technicians who have a solid foundation and skills in electrical and electronic theories, devices, equipment and systems. These electrical and

electronic technicians are needed and will continue to be needed in the future at all levels from product development through maintenance. The Electrical/ Electronics Technology programs at SWIC are designed to do exactly that – provide students with those necessary skills and knowledge to become employed as one of those needed electrical and electronic technicians.

Employers value the balanced treatment of topics included in the college's Electrical/Electronic Technology 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 and systems and design and estimating of electrical systems. Employers know a graduate of the Electrical/Electronics Technology 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/electronic 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/electronic career field that involves the development, design, estimation, manufacture, test, installation, repair and maintenance of electrical and electronic equipment and systems.

Electrical/Electronics Technology Programs (continued)

All students entering any of the EET AAS degree programs must take the Placement Test for Math and English evaluation before enrolling in any electrical/electronics class. For those students only entering into a certificate program, assessment is not required; however, students are highly encouraged to take the assessment placement evaluation, and if necessary, enroll in appropriate courses to bring their skills to a level that will help ensure their success in later courses. See the program coordinator or an academic advisor for more information.

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.

2+2 Articulation Agreements

AAS Electronics Technology:

First Year

- SIUC BS Electrical Engineering Technology
- SIUC BS Industrial Management & Applied Engineering 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.

Electronics Technology Associate in Applied Science Degree (0017)

1 1100 100			
Fall Sem	Fall Semester Semeste		
EET	101	Intro to Electricity/Electronics	5
GT	104	Math for Electricity and Electronics	OR
MATH	112	College Algebra	4
ENG	101	Rhetoric & Composition I	3
Humani	ties OI	R Social Science Course	3
Human	Human Well-Being Elective		
Total Se	Total Semester Credits		
Spring S	emest	er Semes	ter Credits
EET	121	Electronic Devices and Circuits	3
EET	131	Electrical Wiring Principles	3
EET	200	Digital Electronic Circuits	3
NETW	101	Introduction to Networking	3
ENG	103	Technical Communication OR	3
ENG	102	Rhetoric and Composition II OR	
SPCH	151	Fundamentals of Public Speaking	
Total Semester Credits			15
		0144110	

Summer Semester Credi				
EET	250	Microcomputer Maintenance – Beginning	3	
Human Relations Elective				
Total Semester Credits				
Second?	Year			
Fall Sem	ester	Semester Cre	dits	
EET	205	Digital Electronic Circuits II	4	
EET	210	Introduction to Microprocessors	4	
EET	232	Instrumentation Fundamentals	4	
EET	260	Communications Electronics I	3	
Total Semester Credits			15	

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Spring Semester Semes			ester Credits	
EET	225	Microprocessor Interfacing	4	
EET	231	Introduction to Robotics	4	
EET	269	Electrical and Electronics Capston	e 2	
EET Elective				
EET or Approved Elective 3-4				
Total Semester Credits			16-17	

Total Program Credits

Electronics Technology Electives Semester Credit				
EET	102	Electrical/Electronics Computer		
		Applications	2	
EET	201	Wind & Solar Power Installation and		
		Maintenance	2	
EET	234	Instrumentation Systems	4	
EET	235	Programmable Logic Controllers	3	
EET	238	Special Purpose Electrical Devices & Wiring	3	
EET	239	Advanced PLCs	3	
EET	240	Motors Drives	3	
EET	241	Electrical Power, Motors & Controls	3	
EET	242	Electrical Control Systems I	4	
EET	243	NEC for Industrial/Commercial	3	
EET	244	Electrical Control Systems II	3	
EET	246	Power Generation/Distribution	3	
EET	247	DC Crane controls	4	
EET	252	Microcomputer Maintenance – Intermediate	3	
EET	255	Microcomputer Maintenance – Advanced	3	
EET	256	Preparation for A+ Certification	3	
AVE	131	Introduction to Avionics Installation	3	
AVE	141	Avionics Installation Trends	3	
EET	290	Supervised Internship I	2-4	
EET	291	Supervised Internship II	2-4	
EET	292	Supervised Internship III	2-4	
EET	293	Supervised Internship IV	2-4	
EET	298	Electrical Print Reading	2	
EET	299	Special Topics Electricity/Electronics	.5-4	

69-70

Electrical/Electronics Technology Programs (continued)

Certificate Programs

Electronics Technology Certificate (0018)

EET	101	Intro to Electricity & Electronics	5
EET	121	Electronic Devices and Circuits	3
EET	131	Electrical Wiring Principles	3
EET	200	Digital Electronic Circuits	3
EET	205	Digital Electronics II	4
EET	210	Introduction to Microprocessors	4
GT	104	Math for Electricity and Electronics OR	
MATH	112	College Algebra	4
Total Credits			26

Automated Manufacturing Systems (017B)**

EET	231	Introduction to Robotics	4
EET	232	Instrumentation Fundamentals	4
EET	234	Instrumentation Systems	4
EET	235	Programmable Logic Controllers	3
EET	239	Advanced PLCs	3
EET	240	Motors and Drives	3
IDP	276	Industrial Hydraulics I	4
IML	119	Mechanical Systems	4
Total Credits			29

Microcomputer Hardware Maintenance (017C)**

		· · · · · · · · · · · · · · · · · · ·	
EET	250	Microcomputer Maintenance – Beginning	3
EET	252	Microcomputer Maintenance – Interm.	3
EET	255	Microcomputer Maintenance – Advanced	3
NETW	101	Introduction to Networking	3
Total Credits			12

**Entry in the Automated Manufacturing Systems or Microcomputer Hardware Maintenance certificate programs requires basic electronic courses or program coordinator approval.

Career Opportunities

A graduate of the Electrical/Electronic Technology program is prepared to work in one or all of the following areas:

Electronics Technology Program

- General purpose electronic technician
- Electrical and electronics installer and repairer, commercial and industrial equipment
- Electronic equipment and systems repairman
- Electronic equipment manufacturing and assembly
- Radio and telecommunications equipment installer and repairer
- Field service technician
- Electronic home entertainment equipment installers and repairer
- Broadcast and sound engineering technician

In addition to the above general categories of work, graduates from specialty certificate areas could be employed as:

Automated Manufacturing Systems Program

- Maintenance electrician
- Instrumentation technician
- Instrumentation technologies and mechanics
- Industrial control systems specialist
- Industrial electronics repairman

Microcomputer Hardware Maintenance Program

- Prepared to take the A+ Certification Exam
- Computer repair technician
- Computer service technician
- Computer, automated teller, and office machine repairer
- Customer service technician

Industrial Electricity Associate in Applied Science Degree (0053)

First Year		
Fall Semester Cr		
EET 10	11 Intro to Electricity & Electronics	5
GT 10	Math for Electricity and Electronics C	R
MATH 11	2 College Algebra	4
ENG 10	11 Rhetoric & Composition I	3
Humanities OR Social Science Course		
Human Well-Being Elective		
Total Semester Credits		

Spring S	Semest	er 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	4
ENG	103	Technical Communication OR	3
ENG	102	Rhetoric and Composition II OR	
SPCH	151	Fundamentals of Public Speaking	
Total Semester Credits			16

Summer Semester			Semester Credits
EET	242	Electrical Control Systems I	4
Human Relations Elective			3
Total Semester Credits			7

Second Year

Fall Semester		Semeste	r 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
EET	Elective		3
Total Semester Credits			15

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Spring Seme	ester	Semester Credits
EET 26	9 Electrical and Electronics Cap	stone 2
EET 24	6 Power Generation/Distribution	n 3
EET 24	7 DC Crane Controls	4
EET 23	9 Advanced PLCs	3
EET or App	3-4	
Total Semester Credits		

Total Program Credits 70-71

Electrical/Electronics Technology Programs (continued)

Industria	al Elect	ricity Electives	Semester Credits	S
EET	102	Electrical/Electronics Comput	er	
		Applications	2	
EET	201	Wind & Solar Power Installation	on	
		and Maintenance	2	
EET	205	Digital Electronic Circuits II	4	
EET	210	Introduction to Microprocesso	ors 4	
EET	225	Microprocessor Interfacing	4	
EET	231	Introduction to Robotics	4	
EET	232	Instrumentation Fundamental	s 4	
EET	234	Instrumentation Systems	4	
EET	238	Special Purpose Devices and V	Viring 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	290	Supervised Internship I	2-4	
EET	291	Supervised Internship II	2-4	
EET	292	Supervised Internship III	2-4	
EET	293	Supervised Internship IV	2-4	
EET	298	Electrical Print Reading	2	
EET	299	Special Topics Electricity/Ele	tronics .5-4	

Certificate Programs

Industrial Electricity Certificate (0054)

EET	101	Intro to Electricity & Electronics	5
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	4
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	
MATH	112	College Algebra	4
Total Cr	edits		34

Electrical Technology Certificate (053J)

LICCUI	Cui	icellilology certificate (0555)			
EET	101	Intro to Electricity & Electronics	5		
EET	121	Electronic Devices and Circuits	3		
EET	131	Electrical Wiring Principles	3		
EET	200	Digital Electronic Circuits	3		
GT	104	Math for Electronics OR			
MATH	112	College Algebra	4		
EET	238	Special Purpose Electrical Devices & Wiring	g 3		
EET	241	Electrical Power, Motors and Controls	3		
EET	243	NEC for Industrial/Commercial	3		
Total Cr	Total Credits 27				

To satisfy general educational requirements, additional elective courses are made available to complete the Associate in Applied Science degree program. These consist of many courses outside the Electrical/Electronic Technology program that are, in some measure, relative to this field of study and will enhance the training and experiences of the degree holder. Following is a sampling of Approved Electives, but this is by no means a complete list. Acceptance of any Approved Elective not on this list will be made by the dean or program coordinator. Electrical/ Electronic Technology courses may also be used in place of Approved Elective courses.

Approved Electives

BUS	Any E	Business (BUS-prefix) course		
CIS	Any Computer Information Systems (CIS-prefix) course			
	(recor	nmended)		
CAD	Any C	Computer Aided Drafting (CAD-prefix) course		
PHYS	151	College Physics I		
PHYS	152	College Physics II		
POLS	150	Intro to American Government		
NETW	101	Introduction to Networking		
IDP	276	Industrial Hydraulics I		
IML	119	Mechanical Systems		
MATH	112	College Algebra		
MATH	114	Trigonometry		

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

Electrical Technology Certificate

- General purpose residential and commercial electrician
- Electrician and electrical helper
- Electrical apprentice
- Wind and solar power apprentice

Some courses have requisites. Refer to the *Course Description Guide* beginning on page 246.

Emergency Medical Technician

swic.edu/emt

Coordinator: Curt Schmittling, ext. 5343

Coordinators' Assistant: Candice Rodgers, ext. 5355

Dean: Julie Muertz

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 GED* (High School Equivalency). 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 24 observation hours in the emergency room.

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 Disability & Access Center 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 complete a placement exam to assess reading, writing and math skills. Student's scores must indicate the student is eligible for ENG 101 and MATH 94 (or greater) to enroll in EMS 110. To schedule the assessment test, call or visit the Testing Center at the Belleville Campus, 618-235-2700, ext. 5182; the Red Bud Campus, 618-282-6682, ext. 8114; or the Sam Wolf Granite City Campus, 618-931-0600, ext. 7337.
- D. Students should check the location and schedule of classes to ensure availability and access. 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

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 \$30,000 and \$50,000.

Fire Science

swic.edu/fire-science

Coordinator/Faculty: Lee Smith, 618-234-5138

Program Location: Fire Science Training Center, 1512 Freeburg Ave., Belleville, IL

Dean: Julie Muertz

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 program also offers 11 certificates which are designed to meet various national fire service training standards and lead to certification by the Office of the Illinois State Fire Marshal.

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.

2+2 Articulation Agreements

• SIUC – BS 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 Ye	First Year					
Fall Ser	nester	S	Semester Credits			
ENG	101	Rhetoric & Composition I	3			
SOC	153	Introductory Sociology	3			
FS	101	Principles of Emergency Service	ces 3			
FS	102	Fire Behavior and Combustion	n 3			
FS	110	Fire Prevention	3			
Human Well-Being Elective(s)						
	Total Semester Credits 18					

Spring	Spring Semester Cred				
SPCH	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**					
Total Semester Credits					

Second Y	ear –	Fire Protection Administration Option			
Fall Seme	Fall Semester Cree				
SOC 2	230	Race and Ethnicity in the United States	3		
MGMT :	213	Human Relations in the Workplace	3		
MGMT :	217	Human Resource Management	3		
General F	Huma	nities Elective**	3		
Physical S	Scienc	e Elective**	4		
Total Sen	nestei	r Credits	16		
Apply f	or G	raduation Now			
Spring Se	emest	er Semester C	redits		
MATH	112	College Algebra	4		
CMT :	244	Occupation Safety & Health	3		
BUS 2	215	Business Law I	3		
Humaniti	Humanities-Fine Arts Elective**				
Life Scien	Life Sciences Elective*** 4				
Total Sen	Total Semester Credits 17				

OR

Second Year – Fire-Rescue Specialist Option					
Fall S	emester	Semester Credits			
FS	100	Fire Fighter A	4		
FS	115	Fire Fighter B	3		
FS	120	Fire Service Vehicle Operator	r 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		

Apply for Graduation Now

Spring Semester	Semester Credits
Fire Science Approved Electives***	17.5
Total Semester Credits	17.5

Total Program Credits*Pending ICCB Approval

**Contact Fire Science Coordinator Lee Smith 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.

There may be requisites for some courses. Refer to the *Course Description Guide* beginning on page 246.

66

Fire Science (continued)

Career Opportunities

An AAS graduate of the Fire Science program is prepared to work as a:

- Fire fighter
- Fire inspector
- Public safety officer
- Industrial fire brigade member

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.

Fire Fig	hter I &	ı II (057	'A)*
----------	----------	-----------	------

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
Tota	al Credits	•	11.5

Fire Apparatus Engineer (057C)

F3	120	Fire Service Venicle Operator	1
FS	205	Fire Apparatus Engineer	3
Total Credits			4

Fire Service Instructor I (057D) ES 200 Fire Service Instructor I

Total	Credits	The service instructor i	3
Fire S	Service (Officer I (057E)*	

FS 200 Fire Service Instructor I*

	201 l Credits	Fire Officer I*	3 6
Fire	Service I	nstructor II (057F)	

FS 210 Fire Service Instruct

F3	210	Fire Service Instructor II	3
Tota	l Credits		3

Fire Service Officer II (057G)

Total C	Credits		6
FS	211	Fire Officer II*	3
F5	210	Fire Service Instructor II	3

Haz Mat First Responder (057H)*

FS	181	Hazardous Materials First Responder*	2.5
Total	l Credits		2.5

Vehicle Rescue Operations (057J)

FS	260	Vehicle Rescue Operations	3
Tota	1 Credits	Î	3

Rope Rescue I & II (057L)

op	Nope heseac i a ii (05/ L)					
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	Total Credits			
Wate	er Rescue	e I & II (057Q)		
FS	262	Rope Rescue I & II	3	
FS	268	Water Rescue I & II	3	
Total Credits				

^{*}Pending ICCB Approval

There may be requisites for some courses. Refer to the *Course Description Guide* beginning on page 246.

Graphic Communications

swic.edu/graphic-communications

For more computer classes, see: Computer Information Systems Cybersecurity and Networking Office Administration and Technology Web Technologies

Coordinator/Faculty: Nikki Hensley, ext. 5382 Faculty: Beth Burns

Dean: Janet Fontenot

The Graphic Communications Associate in Applied Science degree consists of a combination of technical software and art/ design/theory courses to teach the student not only the theory of graphic communications, but the application of this exciting and cutting-edge profession. Encompassing both web and print advertising fields, students will gain the knowledge most sought after by advertising agencies, large corporations and businesses wishing to improve their business communications.

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	125	Operating System Basics	1		
CIS	147	Fonts & Types	2		
CIS	164	Internet Essentials	3		
CIS	168	Graphic Design OR	3		
ART	111	Basic Design			
CIS	171	Computer Graphics	3		
ENG	101	Rhetoric & Composition I	3		
Total Semester Credits			15		

First Year					
Spring	Semes	ter	Semester Credits		
CIS	172	Photo Manipulation	3		
CIS	173	Graphics and Animation	3		
CIS	174	Web Fundamentals I	3		
CIS	257	Electronic Publishing	3		
English OR Journalism Elective OR SPCH 151					
Total Semester Credits					

Second Year					
Fall Ser	nester		Semester Credits		
CIS	176	Web Fundamentals II	3		
CIS	230	Video Graphics	3		
CIS	272	Photo Manipulation II	3		
Graphic	Com	munications Elective	3		
Human Relations Elective					
Human Well-Being Elective					
Total Semester Credits					

Apply for Graduation Now

Secon	d Year			
Spring Semester Cr				
CIS	259	Current Web/Graphic Technology	3	
CIS	273	Advanced Graphics & Animation	3	
CIS	296	Web & Graphics Internship	3	
Graphic Communications Elective			3	
Humanities OR Social Science Elective			3	
Huma	n Well-	Being Elective	1-3	
Total Semester Credits 16-18				
Total :	Total Program Credits 63-65			

Graphi	ic Com	munications Electives	Semester Credits
ARŤ	120	Introduction to Computer Art	3
BUS	280	Intellectual Property Law	3
CIS	210	Web Design & Usability	3
CIS	299	Special Topics	3
MKT	226	eMarketing	3
MKT	227	SEO & Web Analytics for Mar	keting 3

There may be requisites for some courses. Refer to the *Course Description Guide* beginning on page 246.

Graphic Communications (continued)

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	2
CIS	168	Graphic Design OR	3
ART	111	Basic Design	
CIS	171	Computer Graphics	3
CIS	172	Photo Manipulation	3
CIS	174	Web Fundamentals I	3
CIS	257	Electronic Publishing	3 3 3
CIS	259	Current Web/Graphic Technology	3
CIS	272	Photo Manipulation II	3
Total C	redits	*	23

There may be requisites for some courses. Refer to the Course Description Guide beginning on page 246.

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 of the Business Division and the vice president for Instruction. 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.

There may be requisites for some courses. Refer to the *Course Description Guide* beginning on page 246.

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

Health Information Technology

swic.edu/hit

Coordinator/Faculty: Yvonne Hanger, ext. 5385

Faculty: Stacey Hairston

Coordinators' Assistant: Candice Rodgers, ext. 5355

Dean: Julie Muertz

2+2 Articulation Agreements

• Maryville University – BS Healthcare Practice 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 each piece of 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
- Selective admission for fall semester start at the Belleville Campus
- Applications are accepted Sept. 1, 2019 to Feb. 1, 2020
- Completion of biology, algebra and keyboarding/typing in high school or college are required to apply
- Online application is available in the eSTORM Student
 Center

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 Education. 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 registry examination.

Admission Procedures/ Application Requirements

The admission procedures for the HIT 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 Health Information Technology program before enrolling in HIT-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 HIT Application Planning Guide for specific application requirements and to enhance your potential for admission to this program. Application Planning Guides are located on the Health Information Technology web page or contact the coordinators' assistant, ext. 5355.

Selection of Applicants for Admission

Selection of qualified applicants for the Health Information Technology program will be based upon a numerical ranking procedure, using ACT/SAT 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 Health Information Technology program call or visit the Health Science coordinators' assistant at 618-235-2700, ext. 5355 or an academic advisor, call or visit the 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 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. 5542/5548, to obtain

Health Information Technology (continued)

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 Feb. 1, 2020.

Program Capacity

The Health Information Technology program and Medical Billing & Coding program generally accept 24 students collectively.

Program Location

The Health Information Technology program consists of general education courses, HIT-prefix courses and assigned clinical experience courses. Specific locations depend on the course type.

- 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 <u>HIT courses</u> are only offered at the Belleville Campus during the day. Some courses may be delivered in an online or hybrid method.
- 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.

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 PPE(s) 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//hit-performance-essentials. Applicants or enrolled students are encouraged to contact the Disability & Access Center 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 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. 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

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 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.

Health Information Technology (continued)

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, SPCH 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.

Associate in Applied Science Degree (0023)

First Yea	ar		
Fall Sen	ıester	Sem	ester Credits
BIOL	157	Human Anatomy and Physiology I	5
ENG		Rhetoric & Composition I	3
HIT	101	Health Information Intro	2
HIT	110	Health Information Nomenclature I	2
HIT	130	Computer Applications for HIT	3
Human	Relat	ions Elective*	3
Total Se	meste	er Credits	18

Spring S	Semes	ster Seme	ster Credits
BIOL	158	Human Anatomy and Physiology II	5
HIT	151	Pathophysiology	3
HIT	160	Health Data Management	2
HIT	170	Health Information Nomenclature II	2
SPCH	151	Fundamentals of Public Speaking	3
HIT	161	Microcomputer Applications in HIT	3
Total Se	emeste	er Credits	18

Second Year

Fall sen	ıester	Semester C	redits
PSYC	151	General Psychology	3
HIT	200	Health Care Delivery	4
HIT	220	Classification Systems I	4
HIT	230	PPE: Professional Practice I (Summer/Fall)	2
HIT	245	Pharmacology for the HIT (Summer/Fall)	2
HIT	210	Health Statistics	3
Total Se	emeste	er Credits	18

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Spring S	Semes	eter	Semester Credits
HIT	250	Legal Aspects of HIT	2
HIT	260	PPE: Professional Practice II	3
HIT	270	Health Information Managemen	it 4
HIT	240	Classification Systems II	2
HIT	290	Health Information Capstone	1
HIT	280	Advanced Coding OR	
HIT	285	Advanced Data Analytics	3
Total Se	emest	er Credits	15
Total Pr	rograi	n Credits	69

*See front of AAS degree pages for listing of all Human Relations Course options.

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, 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, an 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

Faculty: John Burnett, ext. 7167 email: john.burnett@swic.edu

Dean: Bradley Sparks

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 Cre	dits
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 Relat	ions Course	3
Total Semeste	er Credits	18
Spring Semes	ster Semester Cre	dits
GT 105	Introduction to Technical Math OR	4
MATH 112	College Algebra OR higher level Math	
HVAR 152	Advanced Refrigeration & A.C. Principles	4

HVAR 153 Heating Fundamentals

Total Semester Credits

HVAR 201 Psychrometrics & Load Calculations

Summer Sem	ester Semester Cre	dits
HVAR 256	Advanced Elect. Controls & Systems*	4
HVAR 203	High Efficiency Heating Systems* OR	2
HVAR 280	Commercial Cooking Equipment I	
Total Semeste	er Credits	6
Second Year		
Fall Semester	Semester Cre	dits
	Semester Cre Commercial Refrigeration I	dits 4
HVAR 202		4 1.5
HVAR 202 HVAR 208	Commercial Refrigeration I	4
HVAR 202 HVAR 208 HVAR 211	Commercial Refrigeration I Intro to HVAR Computer Applications	4 1.5
HVAR 202 HVAR 208 HVAR 211	Commercial Refrigeration I Intro to HVAR Computer Applications Distribution Panels & Elect. Building Wiring	4 1.5 3

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Total Semester Credits

Total Program Credits

152 First Aid-Medical Self-Help

Humanities AND/OR Social Science course

HES

4

Spring S	Seme	ster Semester C	redits
HVAR	251	Commercial Refrigeration II	4
HVAR	252	Air Conditioning and Htg Sys. Design	4
HVAR	253	Licensing & Certification Prep**	3
HVAR	258	Natl Electrical Code Interpretation	3
HVAR	260	Refrigerant Transition/Recovery Cert	.5
		Air Delivery Systems Materials & Methods	1
Total Se	emest	er Credits	15.5

16.5

*HVAR 256 and HVAR 203 are only offered as summer courses.

^{**}HVAR 253 is only offered in the spring semester.

Heating, Ventilation, Air Conditioning and Refrigeration (continued)

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	203	High Efficiency Heating Systems* OR	2
HVAR	280	Commercial Cooking Equipment I	
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 C	redits		45.5

^{*}HVAR 256 and HVAR 203 are only offered as summer courses.

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 AAS degree.

There may be requisites for some courses. Refer to the *Course Description Guide* beginning on page 246.

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

Coordinator/Faculty: Kurt Range

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.

All degree and certificate students must take assessment placement test before entering the program.

See the program coordinator or an academic advisor for more information.

2+2 Articulation Agreements

SIUC – BS Horticulture

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	Sem	ester Credits
BIOL 101	Principles of Biology I OR	4
BIOL 151	Fundamental Botany	
ENG 101	Rhetoric & Composition I	3
HORT 102	Intro to Horticulture	3
HORT 132	Garden Center & Nursery Mgmt	4
HORT Option	on Courses and HORT Electives	2-3
Total Semest	er Credits	16-17
Spring Semes	ster Sem	ester Credits
MGMT 102	Business Mathematics OR	3-4
ACCT 105	Basic Accounting Procedures OR	
ACCT 110	Financial Accounting	
HORT 152	Greenhouse Management	4
HORT 136	Identification & Use of Ornamentals	3
HORT Option	on Courses and HORT Electives	3-7
HORT Option Courses and HORT Electives 3 Total Semester Credits 13-1		

Summer	r Sem	ester	Semester Credits
HES	151	Personal Health and Wellness	OR 2
HES	152	First Aid-Medical Self Help	
		Turf Management	4
HORT	287	Supervised Intern Employmen	t 2
Total Se	meste	er Credits	8
Second?	Year		
T 11.0			C . C 11.
Fall Sen			Semester Credits
HORT	215	Horticultural Diagnostics	3
HORT	215		3
HORT HORT	215 288	Horticultural Diagnostics	3 4
HORT HORT ENG	215 288 103	Horticultural Diagnostics Supervised Intern Employmen	3 4
HORT HORT ENG Commu	215 288 103 nicati	Horticultural Diagnostics Supervised Intern Employmen Technical Communication O	3 4 R 3
HORT HORT ENG Commu HORT	215 288 103 nicati Optio	Horticultural Diagnostics Supervised Intern Employmen Technical Communication O ons Elective	3 4 R 3

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Spring Semester	Semester Credits
HORT 226 Landscaping OR	
HORT 228 Computer-aided Landscaping	3
HORT 298 Horticultural Project	2
Humanities OR Social Science Elective	3
HORT Option Courses and HORT Electives	5-6
Human Relations Elective	3
Total Semester Credits	16-17
Total Program Credits	69-77

Total Program	m Credits	69- 77	
Options avai	lable: please select one of the following op	tions	
General Hor	ticulture		
HORT 112	Media & Fertility	6	
HORT 165	Floral Design	3	
HORT 195	Indoor Plant Culture and Gardening	3	
HORT 120	Container Gardening	3 3 2 2	
HORT Electi	ves	2	
Turf Manage	ment		
	Media & Fertility	6	
HORT 235	Advanced Turf Management	3	
HORT Electi	ves	7	
Floral Design	1		
	Floral Design	3	
HORT 168	Floral Shop Management	3	
HORT 195	Indoor Plant Culture and Gardening	3	
	Advanced Floral Design	3 3 2 2	
	Container Gardening	2	
HORT Electi	ves	2	
Nursery and	Landscaping		
	Media & Fertility	6	
HORT 175	Home Gardening	3	
	Arboriculture	3	
HORT 275	Grounds Maintenance	4	
Greenhouse			
HORT 112	Media & Fertility	6	
	Indoor Plant Culture and Gardening	3	
	Advanced Greenhouse Management	3	
	Container Gardening	2	
HORT Electives 2			

Horticulture (continued)

Fruits and Ve	getables	
HORT 112	Media & Fertility	6
HORT 175	Home Gardening	3
HORT 242	Fruit Production	3
HORT 262	Small Fruit Production	2
HORT 280	Vegetable Gardening	2
	ire Certificate (0006)	

This program is designed for students who want to acquire skills and knowledge to enter the horticultural business after approximately one year of college.

HORT 102	Intro to Horticulture	3
HORT 136	Identification & Use of Ornamentals	3
HORT 152	Greenhouse Management	4
ENG 101	Rhetoric & Composition I	3
HORT 112	Media & Fertility	6
Horticulture	courses chosen from the two-year	
Associate in A	Applied Science degree program	9
Total Credits		28

Floral Design Certificate (006A)

ENG	101	Rhetoric & Composition I	3
MGMT	102	Business Mathematics OR	3
ACCT	105	Basic Accounting Procedures	
HORT	102	Intro to Horticulture	3
HORT	165	Floral Design	3
HORT	168	Floral Shop Management	3
HORT	195	Indoor Plant Culture and Gardening	3
HORT	265	Advanced Floral Design	3
		Container Gardening	2
HORT I	Electiv	ves	5
Total Cr	edits		28

There may be requisites for some courses. Refer to the *Course Description Guide* beginning on page 246.

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

Human Services Technology

swic.edu/human-services

Coordinator/Faculty: Susan Holbrook

This program is designed for students as preparation for advanced study or employment in the human services profession. The Associate in Applied Science 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, criminal justice social services or rehabilitation 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.

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 Yea	r		
Fall Sem	ester		Semester Credits
BIOL	105	Human Biology OR	4
HRO	100	Medical Terminology AND	1
HRO	120		3
ENG	101	Rhetoric & Composition I	3 3 3 3 3
HMS	100	Introduction to Human Services	3
PSYC	151	General Psychology	3
SOC	153	Introductory Sociology	3
Total Se	meste	r Credits	16
Spring S	Semes	ter	Semester Credits
ENG	102	Rhetoric and Composition II	3
HMS	200	Human Services Applications	3
PHIL	152	Ethics	3
SOC		Social Problems	3 3 3 3 2
SPCH	155	Interpersonal Communication	3
HES	152	First Aid—Medical Self Help	2
Total Se		r Credits	17
Second ?	Year		
Fall Sem	ester		Semester Credits
HMS	250	Human Services Seminar	3
MGMT	102	Business Math	3
SOC	230	Race and Ethnicity OR	3
ECON	201	Principals of Economics I (Macro)	OR
LIT	215	Multicultural American Literature	OR
PSYC	295	Social Psychology OR	
SOC	255	The Family	
Electives	(Any	100-level or higher courses	
		except PE activity classes)	6

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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)	6	
Total Se	meste	r Credits	16	
Total P	rograr	n Credits	64	

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	The Family

Elder Care

HRO	150	Fundamentals of Nutrition
PSYC	210	Life Span Development
PSYC	253	Adult Development and Aging
PSYC.	254	Death and Dving

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	Deviance, Crime and Society

Psychiatric Rehabilitation Certificate (078A)

This separate certificate prepares students for entry-level jobs in the mental health field.

Coursev	vork in	acludes the following required courses:	
PRCP	151	Survey of Psychiatric Rehabilitation	3
PRCP	152	Psychiatric Rehabilitation Skills	3
PRCP	153	Health Skills for Psychiatric Rehabilitation	3
PRCP	154	Vocational & Community Living Skills	3
PRCP	155	Psychiatric Rehabilitation Practicum	4
Total C	redits	·	16
Student	o marr	chance to complete a Developtic Pahabilitation	

Students may choose to complete a Psychiatric Rehabilitation Certificate while completing the Human Services Technology Associate in Applied Science degree program.

There may be requisites for some courses. Refer to the *Course Description Guide* beginning on page 246.

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

15

- Criminal justice
- Rehabilitation services

Total Semester Credits

Industrial Maintenance Mechanics

swic.edu/maint-mech-industrial

Coordinator: Mark Bosworth, ext. 7457 email: mark.bosworth@swic.edu

Faculty: Lou Marino

Dean: Bradley Sparks

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.

2+2 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)

Prograi	n Reg	uisite	Semester Credits
PMT		Precision Machining Introduction	on .5
First Ye	ar		
Fall Ser			Semester Credits
PMT		Intro to the Machine Trades	4
		Intermediate Machining	4
1 1/11	1102	Mechanical Systems	4
IDD	276	Industrial III almost a	
	2/6	Industrial Hydraulics I	4
IML	120	Mechanical Blueprint Reading I	3
Total So	emest	er Credits	19.5
Spring			Semester Credits
IDP	116	Industrial Pipefitter A	4
EET	101	Intro to Electricity/Electronics	5
EET	241	Electrical Power, Motors and Co	ontrols 3
		NEC for Industrial/Commercial	
		er Credits	15
101111 0		or Greats	
Summe	r Sem	ester	Semester Credits
IML		Industrial Maintenance Welding	

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Spring Semester			Semester Credits
		Math for Electronics OR	
MATH	112	College Algebra	4
		Personal Health and Wellness	2
ENG	101	Rhetoric & Composition I	3
Commu	ınicat	ions Course	3
Social S	cience	3	
Human	Relat	ions Course	3
Total Se	emest	er Credits	18
Total P	rogra	m Credits	69.5

Certificate Programs

Industrial Maintenance Mechanics Certificate (054D)

		Semester	Credits
IDP	116	Industrial Pipefitting A	4
IDP	276	Industrial Hydraulics I	4
IML	119	Mechanical Systems	4
IML	120	Mechanical Blueprint Reading I	3
IML	133	Industrial Rigging	4
IML	125	Industrial Maintenance Welding	4
EET	101	Intro to Electricity/Electronics	5
EET	243	NEC for Industrial/Commercial	3
EET	200	Digital Electronic Circuits I	3
EET	235	Programmable Logic Controllers	3
EET	239	Advanced PLCs	3
EET	241	Electrical Power, Motors and Controls	3
GT	104	Math for Electricity and Electronics OR	
MATH		College Algebra	4
Total C			47

Stationary Engineering Certificate (054N)

Stationary Engineering is an important part of the industrial maintenance mechanics field. The student will study applications of low and high pressure boilers, steam engines, turbines, air compressors, pumps, components, other related equipment and technical diagrams that are used in industrial facilities. Students will apply this technical information provided to safely and efficiently perform tasks required to meet the various codes and regulations within specific fields and other related requirements pursuing proper licensure.

Fall Semester		Semester Credits
IML 150	Stationary Engineering I	4
IML 151	Stationary Engineering II	4
	ter Stationary Engineering III Stationary Engineering IV	Semester Credits 4 4 16

Career Opportunities

The workforce for industrial maintenance mechanics is projected to grow 16 percent until 2024. Graduates will have opportunities in a wide variety of organizations from large oil refineries to smaller businesses. A graduate of the Industrial Maintenance Mechanics program is prepared to work as a(n):

- Plant maintenance mechanic
- Maintenance mechanic
- Machinery installer
- Repair technician

Semester Credits

3

3

4

13

Electrical repair technician

Programmable Logic Controllers

200 Digital Electronic Circuits

239 Advanced PLCs

133 Rigging (Industrial)

Fall Semester

235

Total Semester Credits

EET

EET

FET

IML

Management

swic.edu/management

Coordinator/Faculty: Tom Bilyeu, ext. 5485

Dean: Janet Fontenot

The Management Associate in Applied Science degree program focuses on skills needed to develop and manage a small business. While any business values employees with a wide variety of skills, small businesses, in particular, need people who understand the broad scope of the business.

The Management AAS curriculum includes accounting, marketing and management coursework. Ethics and communications skills are emphasized as well. The program concludes with a capstone course, **MGMT 270 Business Planning**, in which students bring together their skills to create a business plan.

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.

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	r		
Fall Sem	ester		Semester Credits
ACCT	110	Financial Accounting	4
BUS	101	Introduction to Business	3
BUS	102	Business Mathematics OR	
MGMT	102	Business Mathematics	3
ENG	101	Rhetoric & Composition I	3
MGMT	214	Principles of Management	3
Total Ser	mester	Credits	16
Spring S	emeste	er	Semester Credits
Spring S	emeste 106	e r Introduction to Quickbooks	Semester Credits 3
ACCT			
ACCT	106 111	Introduction to Quickbooks	3
ACCT ACCT	106 111	Introduction to Quickbooks Managerial Accounting	3 4
ACCT ACCT MGMT	106 111 219	Introduction to Quickbooks Managerial Accounting Small Business Management	3 4 3 3
ACCT ACCT MGMT MKT	106 111 219 126 151	Introduction to Quickbooks Managerial Accounting Small Business Management Introduction to Marketing Fundamentals of Public Speak	3 4 3 3
ACCT ACCT MGMT MKT SPCH	106 111 219 126 151	Introduction to Quickbooks Managerial Accounting Small Business Management Introduction to Marketing Fundamentals of Public Speak	3 4 3 3 3 3

S	econd Y	ear		
Fall Semester		ester	Semester	Credits
В	US	241	Fundamentals of Finance OR	
N	1GMT	213	Human Relations in the Workplace	3
N	1GMT	241	Fundamentals of Finance	3
C	PΑT	261	Business Communications	3
P	SYC	151	General Psychology	3
Н	Iuman R	Relation	as Elective	3
Н	Iuman V	Vell Be	ing Elective	2
T	otal Sen	iester (Credits	17

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Spring Semester		Semeste	r Credits
BUS	209	Business Computer Systems	3
BUS	215	Business Law Î	3
MGMT	217	Human Resource Management	3
MGMT	240	Ethics in the Workplace	1
MGMT	270	Business Planning	3
MKT	226	eMarketing	3
Total Semester Credits			16
Total Program Credits			65

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 of the Business Division and the vice president for Instruction. 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.

Management (continued)

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 OR	
MGMT	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
MGMT	240	Ethics in the Workplace	1
MKT	126	Introduction to Marketing	3
Total Cre	dits		22

Course availability varies from semester to semester. Ask an academic advisor or the Business Division for a master course schedule.

There may be requisites for some courses. Refer to the *Course Description Guide* beginning on page 246.

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/oco/.

Logistics and Supply Chain Management (049F)*

The Logistics and Supply Chain Management certificate is designed to provide the student with a holistic education covering Logistics and 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.

MGMT	240	Ethics in the Workplace	1
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	Export/Import Management	3
Total Cre	dits		16

^{*}Pending ICCB approval

Course availability varies from semester to semester. Contact the Business Division for a master course schedule.

There may be requisites for some courses. Refer to the *Course Description Guide* on page 246.

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

swic.edu/marketing

Coordinator/Faculty: Tom Bilyeu, ext. 5485

Dean: Janet Fontenot

This program provides the academic background to begin a career in marketing. The Marketing Associate in Applied Science degree program prepares students for consumer and business product sales, retail sales management, merchandising and customer service careers. There is an emphasis on small business and on marketing in the online environment. Students with experience in an industry may qualify for marketing management positions upon graduation. Small business owners looking to groom employees for marketing positions may find the curriculum particularly useful.

The courses required for the Marketing degree are listed below. These are **sample** schedules and course availability will vary from semester to semester. Contact an academic advisor or the program coordinator for more information including the master course schedule.

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 (0031)

First Year					
Fall Semester		5	Semester Credits		
BUS	101	Introduction to Business	3		
ENG	101	Rhetoric & Composition I	3		
BUS	102	Business Mathematics OR			
MGMT	102	Business Mathematics	3		
MKT	126	Introduction to Marketing	3		
SPCH	151	Fundamentals of Public Speakin	ig 3		
Total Semester Credits		15			

Spring Semester			Semester Credits	
CIS	164	Internet Essentials	3	
CIS	168	Graphic Design OR		
ART	111	Basic Design	3	
MKT	226	eMarketing*	3	
OAT	261	Business Communications	3	
PSYC	151	General Psychology	3	
Human	2			
Total Semester Credits				

Second Year					
Fall Semester		Semester	Credits		
CIS	171	Computer Graphics OR			
		Electronic Publishing	3		
CIS	172	Photo Manipulation	3		
MGMT	213	Human Relations in the Workplace	3		
MGMT	214	Principles of Management	3		
MGMT	240	Ethics in the Workplace	1		
MKT	242	Marketing Communications*	3		
Total Ser	nester	Credits	16		

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Spring S	Semest	er Semester	Credits
ACCT	105	Basic Accounting Procedures OR	3
ACCT	110	Financial Accounting	4
MKT	227	SEO/Web Analytics for Marketing	3
MKT	228	Social Media Tools*	3
MKT	229	Marketing Plans*	3
Human Relations Elective			3
Total Semester Credits			15-16

Total Program Credits 63-64

Internships

Internships can enhance a student's résumé, particularly if the student does not have experience in his or her chosen field of study. You do not need to be registered in a class to participate in an internship although some employers do require a course. This degree program does not require an internship but you can receive advice about finding a suitable internship by contacting the degree program coordinator. Students should have a minimum of nine semester credits of marketing coursework completed before beginning a marketing internship.

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 Marketing 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 Business Division and the vice president for Instruction. 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.

^{*}Denotes course available on limited schedule. Contact the Business Division or visit the program website for a master course schedule.

Certificate Programs

Marketing (031E)

The Marketing certificate provides an opportunity for students to gain recognition for completing a core course of study in marketing. The certificate will benefit students in two-year, nonbusiness programs as well as four-year students who wish to enhance their skillset with marketing coursework.

MKT MKT MKT MKT MKT	126 226 227 228 229	Ethics in the Workplace Introduction to Marketing eMarketing* SEO & Web Analytics for Marketing* Social Media Tools* Marketing Plans*	1 3 3 3 3
MKT MKT		Marketing Plans* Marketing Communications	3
Total Cre		Marketing Communications	19

Digital Marketing (031F)

This is an 11-semester-credit version of the 19-semester-credit Marketing certificate. It focuses on web-based marketing. The certificate is designed for those students who want to update their marketing skills as well as small business owners who wish to expand their marketing efforts to the online arena.

Total Cr		Social Media 100is	12
MKT		Social Media Tools*	2
MKT	227	SEO & Web Analytics for Marketing*	3
MKT	226	eMarketing*	3
CIS	164	Internet Essentials	3

Social Media/E-Marketing (031G)**

This certificate provides an opportunity for students to gain recognition for completing a core course of study in marketing. The certificate will benefit students in two-year, nonbusiness programs as well as four-year students who wish to enhance their skillset with marketing coursework.

MGMT	240	Ethics in the Workplace	1
MKT	126	Introduction to Marketing	3
MKT	226	eMarketing	3
MKT	227	SEO & Web Analytics for Marketing*	3
MKT	228	Social Media Tools	3
MKT	242	Marketing Communications	3
CIS	171	Computer Graphics	3
CIS	172	Photoshop	3
CIS	174	HTML	3
CIS	176	Web Development	3
MGMT	102	Business Math OR	
BUS	102	Business Math	3
Total Cro	edits		31

*Denotes course available on limited schedule. Contact the Business Division for a master course schedule.

There may be requisites for some courses. Refer to the *Course Description Guide* beginning on page 246.

Career Opportunities

A successful graduate of the Marketing program is prepared to work as a:

- Sales representative
- Merchandiser
- Customer service representative
- Retail manager
- Marketing professional in a small business

For more job market information, go to the Bureau of Labor Statistics website at www.bls.gov/oco/.

Massage Therapy

swic.edu/massage-therapy

Coordinator: Tammy Bivin, 618-239-6400

Program Location: The Body Therapy Center & School of Massage 4 Executive Woods Court Swansea, IL 62226 618-239-6400 Owner & Director: Holly Pinto, BS, LMT, BCTMB

Dean: Julie Muertz

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

- One-year certificate program or two-year Associate in Applied Science degree
- Fall and spring starts
- Reading and writing assessment test required, students must be eligible for ENG 101 and MATH 94
- MT courses are offered at The Body Therapy Center and School of Massage

Certification/Licensure Requirements

Upon successful completion of the 759-hour 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 37.5-semestercredit program, which can be completed in three 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 spa treatments. 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 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. Clinical practice courses begin as early as the first semester of the program and continue every semester until program completion. Clinical practice is completed by scheduled client appointments and student's schedule. Hours may be completed during the day, evening and/ or weekend.

Bridge Program for Physical Therapists and Physical Therapist Assistants

There is also an accelerated MT certificate for graduates of accredited physical therapist or physical therapist assistant programs which begins each summer semester. Students must demonstrate proof of a PT/PTA degree from an accredited school by submission of a college transcript or a current PT/PTA license. The accelerated MT certificate can be completed in six months. The summer semester requires classroom attendance one night per week and clinical practicum. The fall semester requires classroom attendance two nights per week and one weekend per month in addition to clinical practicum. All coursework of the MT curriculum has been approved by the IPTA for PT/PTA CEU credits.

Degree Option

The college also offers an Associate in Applied Science degree in Massage Therapy. The AAS in MT degree is a 64-semester-credit program, which can be completed in two years, including one summer. The associate degree 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 equivalency certificate. 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.

Massage Therapy (continued)

B. Complete a placement test. Placement test results must qualify the student for enrollment in ENG 101 or greater and MATH 94 or greater. To schedule the assessment exam, call or visit the Testing Center at the Belleville Campus 618-235-2700, ext. 5182; the Red Bud Campus, 618-282-6682, ext. 8114; or Sam Wolf Granite City Campus, 618-931-0600, ext. 7337.

General Information:

- A. Coordinator permission is required before enrolling in the first semester of the MT program. Contact Tammy Bivin at 618-239-6400.
- 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 Disability & Access Center 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 fall and spring semester. Classes are held in the evening for fall semester starts and in the morning for spring semester program starts. Twenty seats are available each fall 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.

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 (027B)* and Certificate (027A)

Massage Therapy Certificate (027A) is the fall/spring/summer course listing

First Ye	ar		
Fall Ser	nester	•	Semester Credits
MT	101	Therapeutic Massage I	5
MT	102	Body Structure and Function I	4
MT	160	Movement and Massage	5
MT	190	Clinical Practicum I	1
Total So	emest	er Credits	15

Spring Semester			Semester Credits
МТ	201	Therapeutic Massage II	5
MT	202	Body Structure and Function II	4
MT	203	Complimentary Techniques	5
MT	210	Introduction to NMT	1.5
MT	270	Clinical Practicum II	1
Total Semester Credits			16.5

Summer Semester Semeste			er Credits
MT	200	Business Practice in Massage Therapy	3
MT	220	Pathology for the Massage Therapist	2
MT	280	Clinical Practicum III	1
Total Semester Credits			

37.5

Second Year

Required for AAS (027B) degree completion

raii Sei	nestei		Semester Credits
ENG	101	Rhetoric & Composition I	3
PSYC	151	General Psychology	3
MKT	228	Social Media tool	3
HES	152	First Aid-Medical Self-Help	2
HES	141	Yoga I OR	1
HES	145	Tai Chi	
Total S	12		

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Massage Therapy (continued)

Spring Semester	Semester Credits		
SPCH 155 Interpersonal Communications	3		
SOC 153 Introductory Sociology	3		
Approved electives**	6		
Total Semester Credits	12		
Total Program Credits 61.5			

^{*}Pending ICCB Approval

**Approved electives:		ectives: Semester C	redits
MT	211	NMT for LE	1.5
MT	212	NMT for the Torso & Pelvis	1.5
MT	213	NMT for the Upper Extremity	1.5
MT	214	NMT for the Cervical Spine & Cranium	1.5
MT	230	Stretching-Neck & Shoulders	1.5
MT	240	Stretching: Hips & Back	1.5
MT	250	Stretching: Hands & Feet	1.5
MT	285	Biodynamic Cranio Sacral Therapy	2.5
MT	287	Wellness & Body Mechanics	1.5
MT	288	Fascial Anatomy	1.5

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.

Speciality Certificate

Neuromuscular Therapy (027C)

Neuromuscular Therapy, American Version, is a treatment protocol for treating soft tissue and myofascial restrictions. It utilizes specific massage therapy techniques, stretching and home care to reduce/eliminate most neuromuscular pain patterns. These advanced massage techniques are used by licensed massage therapists, physical therapists and physical therapist assistants.

		Semester C	redits
MT	210	Introduction to NMT	1.5
MT	211	NMT for the LE	1.5
MT	212	NMT for the Torso and Pelvis	1.5
MT	213	NMT for the Upper Extremity	1.5
MT	214	NMT for the Cervical Spine & Cranium	1.5
Total Semester Credits			

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-\$50 per hour. Working for an hourly wage, such as at a clinic or spa, the earnings are generally \$15-\$25 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: Dana Woods, ext. 5332

Coordinators' Assistant: Candice Rodgers, ext. 5355

Dean: Julie Muertz

2+2 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
- Selective admission for fall and spring admission at the Belleville Campus
- Applications accepted March 1 to June 1 for fall admission and Aug. 1 to Nov. 1 for spring admission
- Proof of computer literacy OR completion of word processing, database basics and electronic spreadsheets classes in high school or college is required to apply
- Online application available in your eSTORM Student
 Center

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. Taking the certification exam is required for successful completion of this program.

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.

Admission Procedures/ Application Requirements

The admission procedures for the MA 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. The Medical Assistant's policy on transfer credit, advanced placement and experiential learning credit is consistent with the college's policy stated in the front of this catalog. There are no waiting lists for any Health Sciences programs. If not admitted, interested applicants must re-apply the following semester. Refer to the MA Application Planning Guide for specific application requirements and to enhance your potential for admission into this competitive application process. Application Planning Guides are located on the Medical Assistant web page or contact the coordinators' assistant, ext. 5355.

Selection of Applicants for Admission

Selection of qualified applicants for the Medical Assistant program will be based upon a numerical ranking procedure, using the SWIC Placement Test scores (reading, writing and math), Computer Literacy testing/college grades in computer courses, and the percentage of those general education courses required for completion of the MA degree completed prior to admission with a grade of B or better. To obtain more information on the entrance requirements for the Medical Assistant program, call or visit the Health Sciences coordinators' assistant at 618-235-2700, ext. 5355, or an academic advisor, call or visit the 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 or spring semesters. Contact Enrollment Services at 618-235-2700, ext. 5542/5548, to obtain information of 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.

Medical Assistant (continued)

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 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. Residency status is determined by address on file with Enrollment Services by June 1, 2019 for the fall start and Nov. 1, 2020 for the spring admission.

Program Capacity

In the fall semester, the Medical Assistant program generally accepts 28 students at the Belleville Campus. In the spring, 15 students are accepted at the Belleville Campus.

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.

 The general education courses can be taken at the Belleville, Red Bud or Sam Wolf Granite City campuses.

The <u>MA courses</u> are only offered at the Belleville Campus during the day after acceptance into the program.

 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.

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

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 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

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/medical-assistant-performance-essentials. Applicants or enrolled students are encouraged to contact the Disability & Access Center 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.

Medical Assistant (continued)

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 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		Semest	ter Credits
MA	130	Medical Office Clinical Procedures I	2
MA	140	Medical Office Procedures	3.5
MA	142	MA Automation I	1.5
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 S	Semest	er Semester Cre	dits
ΜA	135	Health Care & Patient Communications	2
MA	141	Medical Insurance & Coding	2
MA	143	MA Automation II	2
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 Technique	es 4
Total Se	mester		18

Summer Semester			Semester Credits
MA	195	Office Practicum	4.5

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 Ser	nester	Credits	16

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Spring Semester Semester Cr			redits	
MGMT	213	Human Relations in the Workplace	3	
MA	255	Medical Assistant Management Internship		
SPCH	151	Fundamentals of Public Speaking OR		
SPCH	155	Interpersonal Communication		
Human :	Relatio	ns Elective*	3	
Approve	d Elect	ives***	2	
Total Se	mester	Credits	14	
Total Pro	ogram	Credits	68.5	
* C C	C A	AC11 C 11 II D 1 ·		

^{*} See front of AAS blue pages for possible Human Relations courses

***Approved Electives

ECON	201	Principles of Economics I (Macro
BUS	215	Business Law I
MLT	242	Phlebotomy Clinical
MA	243	Clinical Coding Practicum
MGMT	219	Small Business Management
MLT	110	Phlebotomy Skills
OAT	131	Database Basics
OAT	132	Electronic Spreadsheet Basics
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 \$25,320 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 Billing & Coding

swic.edu/medical-billing-coding

Coordinator/Faculty: Yvonne Hanger, ext. 5385

Faculty: Stacey Hairston

Coordinators' Assistant: Candice Rodgers, ext. 5355

Dean: Julie Muertz

2+2 Articulation Agreements

• Maryville University – BS Healthcare Practice Management

Overview

The Medical Billing & Coding program prepares graduates to submit claims to third parties in order to receive payment for services provided to a patient by a medical doctor or other licensed health care provider. Medical billers and coders have a low level of patient contact. To submit claims, the correct code must be utilized to identify to the third party the reason why a patient was seen and what services were performed so that the provider can get paid. Physicians depend on well-trained, reliable medical coding and billing staff for accurate insurance reimbursement of their services, or they might be charged large penalties due to improper coding. For further information regarding the field of medical billing and coding, refer to the American Academy of Professional Coders website at www.aapc.com.

About the Program

- Two-year Associate in Applied Science degree
- Selective admission for fall semester start at the Belleville Campus
- Applications accepted from Sept. 1, 2019 to Feb. 1, 2020
- Online application is available in your eSTORM Student Center

Certification Information

Upon successful completion of the Medical Billing & Coding curriculum, graduates are awarded an Associate in Applied Science degree and are eligible to take the Certified Professional Coder exam offered by the American Academy of Professional Coders or the Certified Coding Associate exam offered by the American Health Information Management Association. Although certification is not required to practice in medical billing and coding, it is strongly advised as many employers require it.

Admission Procedures/ Application Requirements

The admission procedures for the Medical Billing & Coding 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. There are no waiting lists for admission to any Health Science programs. If not admitted, interested applicants must re-apply the following year. Refer to the Medical Billing & Coding Application Planning Guide for specific application requirements and to enhance your potential for admission into this program. Application Planning Guides are located on the Medical Billing & Coding webpage or contact the coordinators' assistant, ext. 5355.

Selection of Applicants for Admission

Selection of qualified applicants for the Medical Billing & Coding program will be based upon a numerical ranking procedure, using admission test 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. Information on the application criteria is available from the SWIC Office of Enrollment Services. To obtain more information on the entrance requirements for the Medical Billing & Coding program, contact the Health Sciences coordinators' assistant at 618-235-2700, ext. 5355 or an academic advisor, call or visit the 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 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 Medical Billing & Coding classes during the fall semester. Contact Enrollment Services at 618-235-2700, ext. 5542/5548, 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 Feb. 1, 2020.

Program Capacity

The Medical Billing & Coding and HIT programs will collectively accept 24 students in the fall semester at the Belleville Campus.

Program Location

The program consists of general education courses, MA- and HIT-prefix courses and assigned externships and practicum courses. Specific locations depend on the course type.

- 1. The <u>general education courses</u> can be taken at the Belleville, Red Bud or Sam Wolf Granite City campuses.
- The <u>HIT and MA courses</u> are offered at the Belleville Campus during the day and the semesters indicated.
- 3. Externships and practicum courses are completed at

Medical Billing & Coding (continued)

hospital/clinical facilities throughout southern Illinois and in the St. Louis region. Students may be required to travel outside the college district for externship and practicum courses. Specific clinical placement cannot be guaranteed. Whether students are attending full time or part time, all students must be available 30-40 hours per week to complete the externship/practicum portion of the program which is a total of 220 hours of externship/practicum.

Orientation & Performance

Students who are accepted to enroll into this program must attend all required orientation sessions and be able to perform the <u>essential functions</u> of the job with or without reasonable accommodations. The essential functions can be found at swic.edu//billing-coding-performance-essentials.

Applicants or enrolled students are encouraged to contact the Disability & Access Center at 618-235-2700, ext. 5368, to discuss potential issues associated with meeting these requirements.

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 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 who are admitted to this program must follow the requirements for graduation at the time they are admitted and must meet all course, program and sequencing requirements specified. Students are responsible for program policies as listed in each year's Medical Billing & Coding Student Handbook. Students who fail to meet program-specific requirements will be dropped from the program. A grade of C or better is required for all courses in the degree.

Course Sequence

The following semester sequence is designed as a guide for students enrolled full time. Part-time students should take courses 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 HIT- and MA-prefix courses must be completed before or during semesters indicated, unless permission is given by the program coordinator.

Medical Billing & Coding (0032)

First Year					
Fall Semester Sem			Credits		
BIOL	157	Human Anatomy & Physiology I	5		
ENG	101	Rhetoric & Composition I	3		
HIT	101	Health Information Intro	2		
HIT	110	Health Information Nomenclature I	2		
HIT	130	Computer Applications for HIT	3		
Total Se	mester		15		
c · ·	,	0	C 11.		
Spring S			Credits		
BIOL	158	Human Anatomy & Physiology II	5		
HIT	151	Pathophysiology	3		
HIT	160	Health Data Management	2		
HIT	161	Microcomputer Applications in HIT	3		
HIT	170	Health Information Nomenclature II	2		
SPCH	151	Fundamentals of Public Speaking	3		
Total Se	mester	Credits	18		
Summer	r Semes	ter Semester	Credits		
MA	141	Medical Insurance & Coding	2		
HIT	245	Pharmacology for the HIT	2		
Total Se	Total Semester Credits 4				

Medical Billing & Coding (continued)

Second	Year		
Fall Ser	mester		Semester Credits
PSYC	151	General Psychology	3
HIT	200	Health Care Delivery	4
HIT	210	Health Care Statistics	3
HIT	220	Classification Systems I	4
MA	192	Administrative Internship	2
MA	143	MA Automation II	2
Total S	emester	Credits	18

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Spring Semester			Semester Credits
ĤIT	250	Legal Aspects of HI	2
HIT	260	PPE: Professional Practice II	3
HIT	270	Health Information Managem	ent 4
HIT	240	Classification Systems II	2
Humar	n Relatio	3	
Total S	emeste	Credits	14
Total I	Program	Credits	69

Career Opportunities

A variety of employers are seeking individuals trained in billing and coding: small and large group practices, dental offices, health clinics, hospitals, pharmacies, nursing homes, mental health care facilities, rehabilitation centers, insurance companies and health maintenance organizations. The U.S. Department of Labor projects that medical information and claims processing will continue to grow much faster than other occupations throughout the year 2018.

Average Starting Salary

Surveys of recent graduates report starting salaries are about \$25,320 annually. Salaries vary depending on the facility and the training and skills of the biller and coder. Certified professional coders make approximately 5-10 percent more than noncertified coders.

Medical Laboratory Technology

swic.edu/medical-lab

Coordinator/Faculty: ext. 5386

Coordinators' Assistant: Candice Rodgers, ext. 5355

Dean: Julie Muertz

Career Overview

The SWIC Medical Laboratory Technology program prepares students with the entry-level skills necessary to become a medical laboratory technician. Medical lab technicians have a minimal level of patient contact, except when drawing blood. Laboratory technicians examine and process blood and other body fluids. They look for bacteria, parasites and other microorganisms; evaluate the chemical content of fluids; match blood for transfusions; and test for drug levels in the blood to show how a patient is responding to treatment. Technicians also prepare specimens for examination, count cells and look for abnormal cells in blood and body fluids. They use automated and computerized instruments, as well as microscopes, cell counters and other sophisticated laboratory equipment. For further information regarding the field of medical laboratory technology, refer to the American Society for Clinical Laboratory Science website at www.ascls.org/jobs/careers.asp.

About the Program

- Two-year Associate in Applied Science degree
- Selective admission for fall semester start at the Belleville Campus
- Applications accepted Sept. 1, 2019 to Feb. 1, 2020
- Completion of biology, chemistry and algebra in high school or college is required to apply
- It is not necessary to complete general education courses (non-MLT prefixed) prior to application to the MLT program
- Meet with program coordinator to discuss application requirements
- Online application is available in eSTORM Student Center

Certification Requirements

Upon successful completion of the MLT curriculum, graduates are awarded an Associate in Applied Science degree in Medical Laboratory Technology and are eligible to take a national Board of Certification examination. The American Society for Clinical Pathology offers national certification testing which earns technicians the title of certified medical laboratory technician. Regulations vary from state-to-state, but certification is highly recommended because employers require it within one year after graduation. It is called ASCP – BOC. A student does not have to pass the board certification exam to earn the AAS in MLT.

Program Accreditation

The SWIC Medical Laboratory Technology program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences, located at 5600 N. River Road, Suite 720, Rosemont, IL 60018, phone 773-714-8880 or visit website: www.naacls.org. The program's curriculum is guided by the standards developed by NAACLS. 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 MLT graduates to take the national exam to certify that competency.

SOUTHWESTERN ILLINOIS COLLEGE **2019-2020**

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-ofdistrict 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 or contact the coordinators' assistant, ext. 5355. 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 the Health Sciences coordinators' assistant at 618-235-2700, ext. 5355 or an academic advisor, call or visit: the 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 fall semester. Contact Enrollment Services at 618-235-2700, ext. 5542/5548, 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.

Medical Laboratory Technology (continued)

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 Feb. 1, 2020.

Program Capacity

The Medical Laboratory Technology program generally accepts 14 students each fall semester.

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.

- 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 <u>MLT courses</u> are only offered at the Belleville Campus during the day of the semesters indicated on the degree outline after acceptance into program.
- 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 Disability & Access Center 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

MLT students will be required to show proof of immunizations, tuberculosis test, physical examination and health insurance coverage and agree to cover costs before beginning any clinical practice course. These requirements do not have to be fulfilled prior to admission and are further explained at the program orientation meeting. The flu vaccine is required prior to clinicals.

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

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 155 and 156 or 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. All MLT-prefix courses must be completed before or during semesters indicated, unless permission is given by the program coordinator.

Associate in Applied Science Degree (0022)

First Yea	ır		
Summer	Seme	ester	Semester Credits
MATH	112	College Algebra* OR	4
MATH	97	Intermediate Algebra ***	4
Total Se	meste	r Credits	4
Fall Sem	ester		Semester Credits
BIOL	157	Human Anatomy and Physiolog	
CHEM		General Chemistry I* OR	5
CHEM		Introductory Chemistry	
ENG	101	Rhetoric & Composition I	3
HRO	100	Medical Terminology	1
MLT	150	Introduction to Clinical Labora	tory 2
Total Se	meste	r Credits	16
Spring S	Semest	er	Semester Credits
	158	Human Anatomy and Physiolo	
CHEM		General Chemistry II* OR	5
CHEM		Introductory Organic and Biolo	
MLT	250		2
SPCH	151	Fundamentals of Public Speaking	ng 3
		r Credits	15
Summer	Seme	ester	Semester Credits
Summer MLT	Seme 200	ester Hematology	Semester Credits
MLT	200		
MLT Second !	200 Year		4
MLT	200 Year	Hematology	4 Semester Credits
MLT Second Y Fall Sem	200 Year ester 220		4 Semester Credits 3
MLT Second Y Fall Sem MLT	200 Year nester 220 245	Hematology Serology Clinical Practice I	Semester Credits 3 3
MLT Second Y Fall Sem MLT MLT	200 Year ester 220 245 260	Hematology Serology Clinical Practice I Clinical Microscopy	4 Semester Credits 3
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MLT Second Y Fall Sem MLT MLT MLT MLT Human Total Se Apply: Spring S MLT MLT MLT MLT MLT MLT T MLT MLT MLT T MLT T MLT T MLT T MLT T SYC Total Se	200 Year 1ester 220 245 260 270 Relation mester 210 240 275 151 mester	Serology Clinical Practice I Clinical Microscopy Clinical Chemistry ons Elective** r Credits raduation Now er Applied Clinical Microbiology Immunohematology Clinical Practice II General Psychology	Semester Credits 3 3 3 4 3 16 Semester Credits 5 4 3 3

- *Recommend enrolling in MATH 112, CHEM 105 and CHEM 106 if pursuing a bachelor's degree after completion of this AAS degree. MATH 112 is required if taking CHEM 105 and CHEM 106.
- **See front pages of AAS degree requirements for the listing of Human Relations Elective options.
- ***MATH 97 is appropriate if completing CHEM 101 and CHEM 103, but does not transfer. CHEM 101 and 103 transfer as elective credit.

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, starting salaries average about \$30,000-\$40,000 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, in the first six weeks of the semester followed by MLT 242, Phlebotomy Clinical. The Phlebotomy Clinical requires 120 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. Payment for these checks and test are approximately \$67. Students with positive results from either criminal background check or drug test will be dismissed with no refund of tuition or lab fees. The flu vaccine, immunization record, and tuberculosis results are required prior to clinicals.

See the program coordinator or an academic advisor for more information.

Those who successfully complete the following courses will be awarded a certificate of program proficiency. All courses require a grade of C or better.

First Se	emester	Semester	Credits
MLT	100	Introduction to Phlebotomy Procedures	2
		(First six weeks)	
MLT	242	Clinical Phlebotomy (120 hour clinical)	3
Total C	redits	•	5

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.

Music Technology

swic.edu/music-technology

Department Chair/Faculty: Ed Jacobs, ext. 5354

Coordinator: Daniel Mehrmann

Faculty: Adam Hucke, Andrew Jensen, D.M.A., Dan Mehrmann, Diana Umali

The Associate in Applied Science degree in Music Technology prepares students for a career in the audio production industry. Career choices range from working as an audio engineer in recording studios, radio or TV stations, or as a sound engineer in a variety of venues. The program includes coursework to develop skills in music, audio production, and business and marketing.

The courses required of all Associate in Applied Science degree students are outlined by year below.

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 (0096)

102 American Popular Music

Suggested Sequence

First Year

The classes are organized in the shown sequence to meet requisites.

Fall Sem	iester	Semeste	r Credits
MUS	150	Recording Engineer Musicianship I	3
MUS	154	Survey of Music Computer Technology	3
MUS	250	Basic Digital Recording Techniques	3
MUS	111	Class Instruction in Piano I	2
MUS	145	Recording Studio Orientation	3
ENG	101	Rhetoric & Composition I	3
Total Se	meste	r Credits	17
Spring S	Semes	ter Semeste	r Credits
MUS	151	Recording Engineer Musicianship II	3
14103	1)1	recording Engineer Wusiciansinp ii	
MUS	155		3
	-		3
MUS	155	Survey of Music Computer Technology II	3

Second	Year		
Fall Ser	nester		Semester Credits
MUS	101	Music Appreciation OR	3
MUS	110	World Music	
MUS	252	Critical Listening for the Engineer	3
MUS	201	Business of Music	3
MUS	213	Class Instruction in Piano III OR	2
		Private Applied Music*	
MKT	126	Intro to Marketing	3
Human Well-Being Elective***			2
		r Credits	16

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Spring S	emes	Semester Credits		
SPCH	151	Fundamentals of Public Speaking	3	
MUS	214	Class Instruction in Piano IV OR	2	
		Private Applied Music*		
MGMT	219	Small Business Mgmt	3	
MUS	255	Music Technology Practicum**	3	
Human	Relati	3		
Total Semester Credits				
Total Pr	ooran	64		

*Students enrolling in Private Applied Music courses included in the Associate in Applied Science degree requirements would select the 100-level course numbers. However, if students wish to obtain permission to enroll in the 200-level applied courses, they would follow the same procedure as a student pursuing the AFA degree, i.e. audition and department signature. Students who choose to enroll in 100-level applied courses in lieu of Class Instruction Piano III and IV will be required to enroll in an additional class to make up the difference in semester credits. It is suggested that students enroll in a performing ensemble such as band or choir, or take another class that is applicable to the music technology field, such as voiceover or film classes.

**Students may elect to enroll in the Music Technology Practicum for up to six semester credits over the course of two semesters. Students must complete a minimum of 21 semester credits of Music courses as suggested in the sequence and have an interview with the coordinator to enroll in the practicum.

***Students may also meet this requirement by taking two onesemester-credit classes.

Recording Technology Certificate (0097)

Students who are interested in recording technology coursework may receive the Recording Technology Certificate after completion of the following courses. The MUS 104 or a sufficient score on the Theory Assessment is still a requisite for MUS 250, and all other requisites apply.

MUS	145	Recording Studio Orientation	3
MUS	150	Recording Engineer Musicianship I	3
MUS	151	Recording Engineer Musicianship II	3
MUS	154	Survey of Music Computer Technology	3
MUS	155	Survey of Music Computer Technology II	3
MUS	250	Basic Digital Recording Techniques	3
MUS	251	Advanced Digital Recording	3
MUS	252	Critical Listening for the Engineer	3
Total Credits			24

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

Career Opportunities

Completion of the Music Technology Certificate will prepare the graduate to work in the field of:

- Recording engineer
- Audio visual technician
- Music studio assistant
- Music business

3

17

Music merchandising

MUS

Total Semester Credits

Nurse Assistant

swic.edu/nurse-assistant

Coordinators: Stephanie Reid, ext. 5906

Coordinators' Assistant: Candice Rodgers, ext. 5355

Dean: Julie Muertz

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:

Students need to complete the SWIC Placement Test to assess reading, writing and math skills. To enroll in HRO 105, student's score must make them eligible for ENG 92 or greater. To obtain more information about the SWIC Placement Test, call or visit the Testing Center at the Belleville Campus, 618-235-2700, ext. 5182; the Red Bud Campus, 618-282-6682, ext. 8114; or Sam Wolf Granite City Campus, 618-931-0600, ext. 7337.

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 clinical 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. Medical Marijuana, which is not FDA approved, is also considered 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 or the coordinator's assistant prior to enrolling in the class.

A physical exam and immunizations 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 Disability & Access Center 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.

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

Director: ext. 5263

Faculty: Liz Alvarez, Kim Keel, Lyn Martin, Jane Ohl, Beth Raftopoulos, Cynthia Winfield

Coordinators' Assistant: Candice Rodgers, ext. 5355

Dean: Julie Muertz

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 with McKendree allows students to transfer seamlessly from the Nursing Education program to the RN-BSN program at McKendree. Information will be presented at orientation.

2+2 Articulation

- Chamberlain College of Nursing BS Nursing
- McKendree University BS Nursing
- Park University 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.nln.org/careers/resources.htm.

In accordance with the Illinois Nursing and Advanced Practice Nursing Act, 2007, the purpose of the Nursing Education curriculum at SWIC is to prepare students to:

- 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, 2019
- Completion of biology, chemistry and algebra in high school or college is required to apply
- Supporting documentation deadline is Feb. 1, 2020
- Advanced placement for Licensed Practical Nurses 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 3303 Peachtree Road NE, Suite 850, 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 58 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 the following year. 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.

Nursing Education (continued)

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 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 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 visit the Health Sciences coordinators' assistant at 618-235-2700, ext. 5355; or for an academic advisor, call or visit the 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 in 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. Contact Enrollment Services at 618-235-2700, ext. 5542/5548, 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 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 by Feb. 1, 2020.

LPN Articulation Application Process

An articulation process exists for Illinois LPNs. The articulation program will escrow up to 13.5 credits. Admission criteria will remain as listed for the generic 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 director. HRO 120 must be successfully completed before entry into fall courses. Escrowed credits will be awarded pending successful completion of both NE courses attempted in the summer. If not successfully completed, on the first attempt, no articulation provisions will apply and the generic nursing program must be completed. Any LPN may opt not to enter the articulation program – but enter the generic RN program. LPNs submit the application – "Advanced Standing Nursing Education for current LPNs."

Nurse Assistant Articulation Application Process

An articulation process exists for certified Illinois nurse assistants. The articulation process will escrow two NE credits for Illinois certified nurse assistants. Admission criteria, requisite courses and general education courses will remain as listed for the generic RN program. HRO 120 and HRO 100 must be completed successfully before entry into fall classes. The two credits will be awarded for NE 102, pending successful completion of NE 103 on the first attempt. If NE 103 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 generic 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 this 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 director for more information.

Program Capacity

The Nursing Education program generally accepts approximately 80-90 students each fall semester at the Belleville Campus, depending on clinical 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.

- 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 <u>NE courses</u> are only offered at the Belleville Campus during the day of the semesters indicated.
- 3. 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.

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.

Nursing Education (continued)

Orientation & Performance

Applicants accepted into this program must attend the required orientation session, held in March/April, 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-nurse-functions with reasonable accommodation if needed, 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 Disability & Access Center 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

NE 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, 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

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 program must be completed within five years of the beginning of the nursing courses for the first time 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 and 158, 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, 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)

First Ye	ear		
Summe			redits
HRO	100	Medical Terminology**/***	1
HRO	120	Pharmacology***	3
Total S	emest	er Credits	4
First Ye			
Fall Ser	mester	Semester C	redits
BIOL	/	Human Anatomy and Physiology I	5
HRO		Fundamentals of Nutrition**	2
NE	102	Introduction to Nursing Procedures**/****	2
NE		Introduction to Nursing**	4.5
NE	104	Health Continuum I**	2
Total S	emest	er Credits	15.5
	_	0	
Spring	Semes	ster Semester C	redits
Spring BIOL		Ster Semester C Human Anatomy and Physiology II	redits 5
	158		5 3
BIOL	158 101	Human Anatomy and Physiology II	5 3
BIOL ENG	158 101 105	Human Anatomy and Physiology II Rhetoric & Composition I	5
BIOL ENG NE	158 101 105 106	Human Anatomy and Physiology II Rhetoric & Composition I Health Continuum II	5 3
BIOL ENG NE NE NE	158 101 105 106 108	Human Anatomy and Physiology II Rhetoric & Composition I Health Continuum II Health Continuum III	5 3 2 4
BIOL ENG NE NE NE	158 101 105 106 108 emeste	Human Anatomy and Physiology II Rhetoric & Composition I Health Continuum II Health Continuum III Interference with Basic Human Needs I**	5 3 2 4 4
BIOL ENG NE NE NE Total S	158 101 105 106 108 emeste	Human Anatomy and Physiology II Rhetoric & Composition I Health Continuum II Health Continuum III Interference with Basic Human Needs I** er Credits	5 3 2 4 4 18
BIOL ENG NE NE NE Total S	158 101 105 106 108 emester	Human Anatomy and Physiology II Rhetoric & Composition I Health Continuum II Health Continuum III Interference with Basic Human Needs I** er Credits	5 3 2 4 4 18
BIOL ENG NE NE Total S Second Fall Ser	158 101 105 106 108 emester 102	Human Anatomy and Physiology II Rhetoric & Composition I Health Continuum II Health Continuum III Interference with Basic Human Needs I** er Credits Semester C	5 3 2 4 4 18

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Total Semester Credits

NE

Spring Semester Sen			Credits
NE	210	Interference with Basic Human Needs IV	5.5
NE	211	Interference with Basic Human Needs V	5.5
SOC	153	Introductory Sociology	3
Total Semester Credits			14

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 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.

Average Starting Salary

Based on graduate feedback, the average full-time starting salary is \$25.98 per hour or \$54,000 per year. The Bureau of Labor Statistics reports a median annual salary of \$67,490.

209 Interference with Basic Human Needs III

5.5

17

Office Administration and Technology

swic.edu/OAT

For more computer classes, see: Computer Information Systems Cybersecurity and Networking Graphic Communications Web Technologies

Faculty: Karla Brown

Dean: Janet Fontenot

The Office Administration and Technology program can prepare students for a variety of office support careers in business, education or government. Program options blend traditional office administration skills such as filing, scheduling and organizing, with current computer technology and applications including word processing, electronic spreadsheets, database management and presentation graphics.

SWIC offers Associate in Applied Science degrees in Office Administration and Office Technology Specialist. Certificate options are available if you need training to enter the workforce or wish to enhance your employment skills. Certificate options include: Administrative Office Support, Microsoft Office Specialist, Office Support Technology, Office Technology Assistant I, Office Technology Assistant II and Virtual Assistant.

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.

Office Administration Associate in Applied Science Degree (032A)

First Year				
Fall Semester		Semester C	redits	
OAT	121	Introduction to Office Support	3	
OAT	171	Document Processing/Input Technology	3	
OAT	180	Word Processing	3	
BUS	101	Introduction to Business	3	
ENG	101	Rhetoric & Composition I	3	
PSYC	151	General Psychology	3	
Total Semester Credits		18		

Spring S	Semes	ter Semes	ster Credits
ACCT			3
ACCT	110	Financial Accounting**	4
OAT	172	Advanced Information Processing	3
OAT	155	Software Computations	3
Human	Well 1	Being Elective	2
OAT	156	Microsoft Office Suite I	3
SPCH	151	Fundamentals of Public Speaking	3
Total Se	emeste	er Credits	17-18

Second Year				
Fall Semester Semester		Credits		
OAT	285	Microsoft Office Suite II	3	
OAT	261	Business Communications	3	
OAT	169	Automated Application/Transcription	3	
OAT	276	Current Technology for Office Support	3	
OAT Sub Plan Options			5-6	
Total Semester Credits			17-18	

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Spring Semester			emester Credits
OAT	260	Administrative Office Procedures	3
OAT	293	Office Admin. & Technology Int	tern 3
OAT	175	Electronic Spreadsheets	3
Human Relations Elective			3
OAT Sub Plan Options			3
Total Semester Credits			15

Total Program Credits 67-69

Sub Plans Available – please select one of the following:

Admini	strativ	e Assistant	
OAT	256	Office Management	3
OAT	280	Virtual Office Technologies	3
ACCT	106	Introduction to QuickBooks	3
		ffice Specialist	
OAT	256	Office Management	3
OAT	256		3 3

		~	
Legal (Office S	pecialist	
OĂT	275	Law Office Management	3
PARL	120	Introduction to Paralegal Studies OR	3
BUS	215	Business Law I	
OAT	274	Law Office Computer Applications	3
Medica	al Offic	e Specialist	
OAT	256	Office Management	3

Medica	I Office	e Specialist	
OAT	256	Ôffice Management	3
HRO	100	Medical Terminology	1
BIOL	101	Principles of Biology I OR	4
BIOL	105	Human Biology	

^{**}Accounting Office Specialist options MUST take ACCT 110

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

Office Administration and Technology (continued)

Career Opportunities

A graduate of the Office Administration program (032A) is prepared to work as a(n):

- Administrative assistant
- Office assistant
- Word/information processor
- Secretary

Accelerated Degree Option

Anyone who has completed an associate or higher degree from a regionally accredited college may earn an Associate in Applied Science degree in Office Administration and Technology 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 Business Division and the vice president for Instruction. 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.

Office Technology Specialist Associate in Applied Science Degree (0069)

First Year		
Fall Semester	Semester C	redits
OAT 121	Introduction to Office Support	3
OAT 171	Document Processing/Input Technology	3
OAT 180	Word Processing	3
BUS 101	Introduction to Business	3
ENG 101	Rhetoric & Composition I	3
PSYC 151	General Psychology	3
Total Semester	Total Semester Credits	

Spring Semester			Semester Credits
OAT	172	Advanced Information Processi	ng 3
SPCH	151	Fundamentals of Public Speaking	ng 3
Human	Well-I	Being Elective	2
OAT	165	Presentation Graphics	2
OAT	175	Electronic Spreadsheets	3
Human Relations Elective			3
Total Se	emeste	r Credits	16

Second	l Year		
Fall Semester		Semester C	Credits
OAT	185	Database Applications	3
OAT	261	Business Communications	3
OAT	256	Office Management	3
OAT	169	Automated Application/Transcription	3
OAT	276	Current Technology for Office Support	3
OAT	225	Advanced Word Processing	3
Total S	emester	r Credits	18

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Spring Semester Semest			ester Credits
OAT	260	Administrative Office Procedures	3
OAT	293	Office Admin. & Technology Intern	3
OAT	190	Web Design with Microsoft Office	3
OAT	230		3
CIS	164	Internet Essentials	3
Total Semester Credits			
Total Program Credits 6			

Certificate Programs

Office Technology Assistant I (033A)

This certificate is designed to prepare individuals with little or no prior office experience to perform a variety of tasks, including computer tasks, in a general office environment. This program emphasizes word processing and related office skills for entrylevel positions.

		Semester (creaits
OAT	121	Introduction to Office Support	3
OAT	171	Document Processing/Input Technology	3
OAT	180	Word Processing	3
OAT	156	Microsoft Office Suite I	3
ENG	101	Rhetoric & Composition I	3
BUS	102	Business Mathematics OR	
MGMT	102	Business Mathematics	3
Total Semester Credits			18

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

Office Technology Assistant II (0033)

This certificate is a continuation of Office Technology Assistant I. It is designed to give students additional skills. Upon completion of the certificate, a student may continue in one of the OAT degree programs.

Office Technology Assistant certificate plus:

		Semest	er Credits
BUS	101	Introduction to Business	3
OAT	172	Advanced Information Processing	3
OAT	175	Electronic Spreadsheets	3
OAT	261	Business Communications	3
OAT	128	Microsoft Outlook	1

Career Opportunities

Total Semester Credits

A graduate of the Office Technology Assistant program is prepared to work as a:

- Clerk typist
- General office clerk
- General office assistant

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Office Administration and Technology (continued)

Virtual Assistant (069B)

This certificate program is designed to prepare students to operate from a remote location to provide support services such as administrative, creative and/or technical solutions to individuals, businesses and organizations.

First Semester	Semester (Credits
OAT 171	Document Processing/Input Technology	3
MGMT 219	Small Business Management	3
MKT 228	Social Media Tools	3
OAT 180	Word Processing	3
OAT 175	Electronic Spreadsheets	3
OAT 165	Presentation Graphics	2
OAT 128	Microsoft Outlook	1
Total Semester Credits		18

Second Semester Se			Semester Credits
OAT	172	Advanced Information Processi	ng 3
OAT	261	Business Communications	3
OAT	280	Virtual Office Technologies	3
MKT	226	eMarketing	3
ACCT	106	Introduction to QuickBooks	3
Approved Elective			3
Total Se	emeste	r Credits	18

Total Credits			36
Electiv	es:		
OAT	190	Web Design with Microsoft Office	3

OAT	190	Web Design with Microsoft Office	3
MGMT	Γ 240	Ethics in the Workplace	1
MKT	126	Introduction to Marketing	3
MKT	227	SEO & Web Analytics for Marketing	3
OAT	169	Automated Application/Transcription	3
OAT	185	Database Applications	3
OAT	225	Advanced Word Processing	3
OAT	230	Advanced Electronic Spreadsheets	3

Career Opportunities

· Virtual assistant in business, education, and government

Microsoft Office Specialist (0064)

This curriculum is designed to prepare students to take the Microsoft Office Specialist test(s). The Microsoft Office Specialist certification is a globally recognized certification of skill in the use of Microsoft desktop business applications.

First Semester		Semester (Credits
OAT	170	Keyboarding/Touch System OR	2
OAT	171	Document Processing/Input Technology	3
OAT	180	Word Processing	3
OAT	175	Electronic Spreadsheets	3
OAT	185	Database Applications	3
OAT	128	Microsoft Outlook	1
Total Semester Credits 12			

Second Semester Cree			dits
OAT	165	Presentation Graphics	2
OAT	225	Advanced Word Processing/Microsoft Word	3
OAT	230	Advanced Electronic Spreadsheets/	
		Microsoft Excel	3
OAT	190	Web Design with Microsoft Office	3
Total Semester Credits			11

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

23-24

33-34

Administrative Office Support (0065)

Total Credits

Total Credits

This one-year program of concentrated administrative office work may be completed in two semesters. Courses also could apply toward the completion of the two-year Office Administration and Technology program.

First Seme	ester	Semester Credits	
ACCT 10	05 Basic Accounti	ng Procedures OR 3	
ACCT 1	10 Financial Accor	inting 4	
OAT 12	21 Introduction to	Office Support 3	
OAT 18	80 Word Processin	g 3	
OAT 17	71 Document Pro-	cessing/Input Technology 3	
OAT 15	55 Software Comp	outations 3	
Total Semester Credits			

Second Semester Ser			er Credits
OAT	156	Microsoft Office Suite I	3
OAT	169	Automated Application/Transcription	3
OAT	261	Business Communications	3
OAT	172	Advanced Information Processing	3
OAT	175	Electronic Spreadsheets	3
ACCT	106	Introduction to QuickBooks	3
Total Semester Credits			18

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

Office Administration and Technology (continued)

Career Opportunities

A graduate of the Administrative Office Support Certificate program (0065) is prepared to work as a:

- Secretary
- Receptionist

Office Support Technology (069A)

The Office Support Technology Certificate program provides the skills and knowledge necessary for entry-level office support positions in the automated office. Basic computer concepts and operation, basic word processing concepts and operation, and general office procedures are taught.

First Semester		Semester C	redits
OAT	121	Introduction to Office Support	3
OAT	155	Software Computations	3
OAT	180	Word Processing	3
OAT	171	Document Processing/Input Technology	3
ENG	101	Rhetoric & Composition I	3
OAT	175	Electronic Spreadsheets	3
Total Semester Credits 1			18

Second	l Semes	ter Semester (Credits
OAT	276	Current Technology for Office Support	3
OAT	261	Business Communications	3
OAT	172	Advanced Information Processing	3
OAT	165	Presentation Graphics	2
OAT	185	Database Applications	3
One of	the foll	owing:	
OAT	225	Advanced Word Processing	3
OAT	190	Web Design with Microsoft Office	3
OAT	230	Advanced Electronic Spreadsheets	3
Total S	emeste	r Credits	17
Total C	Credits		35

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

Career Opportunities

A graduate of the Office Support Technology Certificate program (069A) is prepared to work as an:

Office assistant

Paralegal Studies

swic.edu/paralegal

Coordinator/Faculty: Christie Highlander, ext. 5494

Dean: Janet Fontenot

The purpose of the Paralegal Studies program is to give students a working knowledge of many areas of law in order to prepare them for gainful employment in a law firm, governmental agency, insurance company or another area of the legal profession.

Many students already work in the field of law and wish to take classes in Paralegal Studies to improve their skills. Other students need specialized training to use in their current positions. These students intend to increase career choices with their current employer and to supplement the on-the-job training they have received already.

Courses in the Paralegal Studies program are taught by practicing attorneys. Some courses are available through video conferencing and online.

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)

Semester Credits

O.F	ΥT	180	Word Processing	3
EN	IG	101	Rhetoric & Composition I	3
			Introduction to Paralegal Studies	3
BU	JS	215	Business Law I	3
SP	CH	151	Fundamentals of Public Speaking OR	3
SP	СН	155	Interpersonal Communications	
			er Credits	15
Sp	ring S	Seme	ster Semester C	Credits
	•		Software Computations OR	3
			Business Mathematics OR	
			Math over 100 level	
PA	RL	240	Torts	3
PA	RL	274	Law Office Computer Applications	3
PA	RL	220	Legal Research and Writing I	3
O.	ΥT	156	Microsoft Office Suite I	3
Pai	Paralegal Elective			3
To	Total Semester Credits			

Second Year		
Fall Semester	Semester	Credits
POLS 150 Introduc	tion to American Government	3
OAT 261 Business	Communications OR	3
ENG 102 Rhetoric	and Composition II	
Human Well-Being Ele	ctive	2
PARL 225 Legal Re	search and Writing II	3
PARL 230 Civil Pro	ocedure	3
Paralegal Elective		3
Total Semester Credits	•	17

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Spring S	Semes	ster Se	emester Credits
ECON	115	Introduction to Economics OR	3
ECON	201	Principles of Economics I (Macro)	OR
ECON	202	Principles of Economics II (Micro)	
OAT	275	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 Se	emeste	er Credits	14
Total Pr	rograi	n Credits	64
Paralega	al Ele	ctives	
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

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

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 of the Business Division and the vice president for Instruction. Students must meet all institutional requirements for the Associate in Applied Science degree.

Career Opportunities

A graduate of the Paralegal Studies program is prepared to:

- Work as a paralegal or legal assistant
- SWIC has articulation agreements with Southern Illinois University Carbondale, and Webster University in St. Louis, which allow students to enter the bachelor's program in Paralegal Studies with junior status.
- Students who are planning to apply to law school are encouraged to pursue a bachelor's degree and courses in any discipline that requires critical thinking, verbal and written communications skills, math and accounting skills, and knowledge of technology. Admission to law school requires that an applicant take the Law School Admissions Test.

First Year

Fall Semester

Paramedic/Paramedicine

swic.edu/paramedic

Coordinator: Curt Schmittling, ext. 5343

Coordinator's Assistant: Candice Rodgers, ext. 5355

Dean: Julie Muertz

2+2 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 CPR 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 exams or state EMT-Paramedic examination for licensure. Refer to Illinois Department of Public Health website at www.idph.state.il.us for more information on the various EMT-level national examinations offered in Illinois.

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.

Paramedic/Paramedicine (continued)

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-ofdistrict 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 58 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, any of the Academic Advising Department, Enrollment Services office, or with the Health Sciences coordinator's assistant.

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 the Health Sciences coordinator's assistant at 618-235-2700, ext. 5355, or meet with an academic advisor, call or visit the 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. 5542/5548, 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.

- The general education courses and approved electives are generally available at the Belleville, Red Bud or Sam Wolf Granite City campuses.
- 2. The <u>core paramedic EMS-prefixed courses</u> are offered at Belleville Campus.
- 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 12-72 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 Disability & Access Center at 618-235-2700,ext. 5368 to discuss potential issues associated with meeting these requirements.

Paramedic/Paramedicine (continued)

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. 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

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. 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	4
EMS	205	Paramedicine Ĭ	8.5
EMS	206	Paramedicine II	4.5
EMS	207	Paramedicine III	4
EMS	208	Paramedicine IV	5
EMS	210	Paramedic Clinical Practice I	2
EMS	211	Paramedic Clinical Practice II	1
EMS	212	Paramedic Clinical Practice III	1.5
EMS	213	Paramedic Clinical Practice IV	1.5
EMS	220	Paramedic Field Internship I	1
EMS	221	Paramedic Field Internship II	.5
EMS	222	Paramedic Field Internship III	.5
EMS	223	Paramedic Field Internship IV	1
EMS	224	Paramedic Field Internship V	2
FS	280	Hazardous Materials – Awareness	.5
FS	160	Tech Rescue Awareness	.5
Total C	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

Assoc	iate in A	pplied Science Degree (0068)	
First Ye	ar		
Summe	r Semester	Semester Cro	edits
BIOL	105	Human Biology	4
HRO	100	Medical Terminology	1
Total Se	emester Cro		5
E 11.0			1.
Fall Sen		Semester Cro	
EMS	205	Paramedicine I	8.5
EMS	210	Paramedic Clinical Practice I	2
EMS	220	Paramedic Field Internship I	1
FS	160	Technical Rescue Awareness	.5
FS	280	Hazardous Materials Awareness	.5
HRO	120	Pharamacology	3
Total Se	emester Cro	edits	15.5
Spring	Semester	Semester Cro	edits
EMS	206	Paramedicine II	4.5
EMS	211	Paramedic Clinical Practice II	1
EMS	221	Paramedic Field Internship II	.5
EMS	207	Paramedicine III	4
EMS	212	Paramedic Clinical Practice III	1.5
EMS	222	Paramedic Field Internship III	.5
	ed Electives	Taramedic Field Internship III	3
	emester Cre	-dits	15
101111 01			1)
Second			
Summe	r Semester	Semester Cre	edits
EMS	208	Paramedicine IV	5
EMS	213	Paramedic Clinical Practice IV	1.5
EMS	223	Paramedic Field Internship IV	1
Total Se	emester Cro	edits	7.5
E 11.0		S C	10.
Fall Sen	nester 224	Semester Cro	
EMS		Paramedic Field Internship V	2
ENG	101	Rhetoric & Composition I	3
PSYC	151	General Psychology	3
SPCH	151	Fundamentals of Public Speaking OR	2
SPCH	155	Interpersonal Communication	3
	Relations I		3
Iotal Se	emester Cre	edits	14
Apply	for Grad	luation Now	
Second	Year		
	Semester	Semester Cro	edite
PSYC	210	Life-Span Development OR	-4110
PSYC		Health Psychology	3
1.311	2:70		
	270 ed Electives		
Approve	ed Electives	*	9
Approve		*	

^{*} Electives must be selected from the following list of approved courses or be approved by the program coordinator.

Approve	d Electives	Semester Semester	Credits
BIOL	155/157	Human Anatomy and Physiology I	5
BIOL	156/158	Human Anatomy and Physiology II	5
PSYC	200	Applied Psychology	3
PSYC	210	Life-Span Development	3
PSYC	250	Child Development	3
PSYC	251	Adolescent Development	3
PSYC	252	Educational Psychology	3
PSYC	253	Adult Development & Aging	3
PSYC	254	Death and Dying	3
PSYC	259	Abnormal Psychology	3
PSYC	260	Psychology of Addictive Behaviors	3
PSYC	270	Health Psychology	3
PSYC	288	Biological Psychology	3
SPCH	170	Advanced Speech & Persuasion	3
SOC	210	Deviance, Ĉrime & Society	3
SOC	265	Aging & Society	3
POLS	150	Intro to American Government	3
CHEM	101	Introductory Chemistry	3
PHYS	151	General Physics	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MGMT	213	Personnel Management	3
MGMT	214	Principles of Management	3
MGMT	217	Human Resource Management	3
MGMT	240	Ethics in the Workplace	3
EMS	105	First Responder EMS	4
EMS	110	Emergency Medical Technician	8
EMS	115	Basic Recertification Topics	.5-5
EMS	116	EMT Certification Review	.5
EMS	299	Special Topics in EMS	.5-5
HRO	160	Medical Terminology	3
FS	260	Vehicle Rescue Operations	3
FS	262	Rope Rescue I & II	3
FS	264	Confined Space Rescue I & II	3
FS	266	Trench Rescue Operations	2
FS	281	Hazardous Materials Operations	3 3 3 2 3 3 3
FS	282	Hazardous Materials Technician A	3
FS	286	Water Rescue I & II	3
HS	100	Intro to Homeland Security	3
		•	

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.

Paramedic/Paramedicine (continued)

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 \$30,000 and \$50,000 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 Semest	er	Semester Credits
EMS 275	Critical Care Transport Expe (clinical)	erience 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.

^{*}All pending ICCB approval.

Physical Therapist Assistant

swic.edu/pta

Coordinator/Faculty: Kim Snyder, ext. 5390

Faculty: Michelle Kujawa

Coordinators' Assistant: Candice Rodgers, ext. 5355

Dean: Julie Muertz

2+2 Articulation Agreements

• Maryville University – BS Healthcare Practice 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 Sept. 1, 2019 to Feb. 1, 2020
- Online application available in your eSTORM Student Center

Licensure Requirements

Upon successful completion of the PTA curriculum, graduates are awarded an Associate in Applied Science degree and are eligible to take the National Physical Therapy Examination for PTAs. PTAs are licensed, certified, or registered in all states. Illinois and Missouri require licensure to work as a physical therapist assistant.

Program Accreditation

The Physical Therapist Assistant program at SWIC is accredited by the Commission on Accreditation in Physical Therapy Education, 1111 N. Fairfax St., Alexandria, VA 22314: phone 703-706-3245, email: accreditation@apta.org, and website: http://www.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. It also allows the college's PTA graduates to take the licensure examination for any state that requires a license to practice as a physical therapist assistant.

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 58 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 web page or contact the Health Sciences coordinators' assistant, ext. 5355.

Selection of Applicants for Admission

Selection of qualified applicants for the Physical Therapist Assistant program will be based upon a numerical ranking procedure, using ACT scores or SWIC GPA, high school and/or college grades 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 the Health Sciences coordinators' assistant at 618-235-2700, ext. 5355, or for an academic advisor, call or visit the 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.

Physical Therapist Assistant (continued)

Applicants will be notified of their status regarding admission as quickly as possible given the number of applications received, typically late February or early 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 fall semester. Contact Enrollment Services at 618-235-2700, ext. 5542/5548, 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 Feb. 1, 2019.

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.

- 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 <u>PTA courses</u> are only offered at the Belleville Campus during the day of the semesters indicated on the degree outline after acceptance into program.
- 3. <u>Clinical experience</u> is located throughout southern Illinois and in the St. Louis region. 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. 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 <u>essential functions</u> of the job with or without reasonable accommodations. The essential functions can be found on the program website and in the PTA handbook. Applicants and enrolled students are encouraged to contact the Disability & Access Center 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. 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, 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 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.

Physical Therapist Assistant (continued)

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.

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, SPCH 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 before or during the listed semesters, unless permission is given by the program coordinator.

Associate in Applied Science Degree (0027)

First Ye	ar				
Fall Ser	mester	Ser	nester Credits		
BIOL	105	Human Biology*	4		
ENG	101	Rhetoric & Composition I	3		
PSYC	151	General Psychology	3		
PTA	100	Introduction to Physical Therapy	1		
PTA	101	Physical Therapy Science and Skill	s 4		
PTA	102	Patient Care Skills & Assessment	3		
Total Semester Credits 18					
Spring	Spring Semester Semester Credits				

Spring Semester			ster Credits	
HRO	100	Medical Terminology	1	
SPCH	151	Fundamentals of Public Speaking	3	
PTA	150	Theory of Physical Agents I	3	
PTA	151	Application of Physical Agents I	2	
PTA	160	Kinesiology & Clinical Orthopedics	5	
PTA	161	Orthopedic Interventions	3	
PTA	165	Pathology I	1	
Total Se	Total Semester Credits			

Summ	er Sem	ester	Semester Credits			
PSYC	210	Life-Span Development**	3			
SOC	153	Introductory Sociology	3			
PTA	170	Clinical Experience I	3			
Total S	A					
Fotal Semester Credits 9						

Second	Year		
Fall Semester		Semester Ci	redits
PTA	200	Theory of Physical Agents II	3
PTA	201	Application of Physical Agents II	2
PTA	210	Therapeutic Exercise & Rehabilitation	5
PTA	211	Rehabilitation Techniques	3
PTA	220	Pathology II	3
Total S	emester	· Credits	16

Apply for Graduation Now

Spring Semester			Semester Credits
PTA	270	Clinical Experience II	8
PTA	280	Clinical Seminar	2
Total S	Semeste	er Credits	10

71

Total Program Credits*BIOL 155 & 156/157 & 158 can replace BIOL 105.

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 \$37,000 and \$42,000 annually, depending on the type and location of the health care facility. This is consistent with the Bureau of Labor Statistics 2017 median salary of \$47,420 per year.

^{**}PSYC 210 cannot be replaced with other 200 level PSYC courses

Precision Machining Technology

swic.edu/pmt

Coordinator: Mark Bosworth, ext. 7457 email: mark.bosworth@swic.edu

Faculty: Jerald Bonifield, ext. 7926 jerald.bonifield@swic.edu

Dean: Bradley Sparks

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 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 (053H)

Progra	ım Re	quisite	Semester Credits
PMT	100	Precision Machining Introduction	on 0.5
First Y	ear		
Fall Se	emeste	r	Semester Credits
PMT	101	Intro to the Machine Trades	4
PMT	102	Intermediate Machining	4
PMT	201	Advanced Machining	4
PMT	240	NIMS Certification	4
IML	120	Mechanical Blueprint Reading I	3
Total S	Semes	19.5	
Spring	Seme	ester	Semester Credits
PMT	110	Introduction to CNC Operation	1s 2.5
PMT	112	CNC Turning	3
PMT	111	CNC Milling	4
PMT	250	Multi-Axis CNC Programming	4
PMT	114	Metallurgy I (Industrial)	2
PMT	202	Cutting Tools/Fixturing/Insp	2
Total S	Semes	ter Credits	17.5



Summer Ser		Semester Credits
PMT 226	Geom Dim & Tolerancing (GD&	zT) 1
GT 105	Intro to Technical Math OR	
MATH 112	College Algebra OR higher level	Math course 4
Total Semes	ter Credits	5
0 137		
Second Year		0 0 1
Fall Semeste		Semester Credits
PMT 231	Intro to SolidWorks	4
PMT 221		4
PMT 222	Advanced Mastercam	4
PMT 262 Total Semes		4 16
Total Sellies	ter Credits	10
Apply for	Graduation Now	
Spring Seme	ester	Semester Credits
ENG 101	Rhetoric & Composition I	3
HES 151	Personal Health and Wellness	2
Communica	tions Course	3
Human Rela	tions Course	3
Social Science		3
Total Semes	ter Credits	14
Total Progra	um Credits	72
Cortificat	e Programs	
Certificat	e i rogianis	
Precision	Machining Technology Cert	ificate (054H)
Program Re	quisite	
	Precision Machining Introduction	0.5
D1 // 104		Semester Credits
PMT 101	Intro to the Machine Trades	4
PMT 102	- C	4
PMT 110		
PMT 111	0	4
IML 120	1 0	3
PMT 112	CNC Turning	3
PMT 201 PMT 221		4
		4
PMT 222		_
PMT 226 PMT 240	Geom Dim & Tolerancing (GD& NIMS Certification	(1) 1
GT 105	Intro to Technical Math OR	4
MATH 112	College Algebra OR higher level	Math course 4
Total Credit		42
Iotai Cicuit		12

Precision Machining Technology (continued)

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

PMT 100 Precision Machining Introduction 0.5

Semester Credits PMT 110 Introduction to CNC Operations 2.5 PMT 111 CNC Milling 4 PMT 112 CNC Turning 3 Total Credits 10

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

PMT 100 Precision Machining Introduction 0.5

			Semester Credits
PMT	221	Intro to Mastercam	4
PMT	222	Advanced Mastercam	4
Total	Credit	s	8.5

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.

Total (Credit	s	8
PMT	232	Advanced SolidWorks	4
PMT	231	Intro to SolidWorks	4

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.

PMT	250	Multi-Axis CNC Programming	4
PMT	262	Advanced Mastercam/Multi-Axis	4
Total (Credit	s	8

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

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 shops that supply services to larger companies hire Precision Machining Technology graduates.

Radiologic Technology

swic.edu/rad-tech

Coordinator: ext. 5303

Faculty: Larry Wheeler

Coordinators' Assistant: Candice Rodgers, ext. 5355

Dean: Julie Muertz

2+2 Articulation Agreements

- Maryville University BS Healthcare Practice Management
- SIUC BS Radiologic Sciences Diagnostic Medical Sonography
- SIUC BS Radiologic Sciences Education & Management
- SIUC BS Radiologic Sciences MRI/CT
- SIUC BS Radiologic Sciences Radiation Therapy

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, 2019
- Completion of biology, chemistry/physics and algebra in high school or college are required to apply
- Deadline for application documentation is Feb. 1, 2020
- 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 on page 58 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 or contact the coordinators' assistant, ext. 5355.

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 2018 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 the Health Sciences coordinators' assistant at 618-235-2700, ext. 5355, or for an academic advisor, call or visit the 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 April). 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. 5542/5548, 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

Radiologic Technology (continued)

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 Feb. 1, 2020.

Program Capacity

The Radiologic Technology program generally accepts 40 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.

- 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 <u>RT courses</u> 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 <u>essential functions</u> 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 Disability & Access Center 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, 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

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, SPCH 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 Y	ear		
Summ	er Sem	nester	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 S	Semest	er Credits	8
Fall Se	mester	r	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 S	Semest	er Credits	18
Spring	Seme	ster	Semester Credits
ENG			3
RT	150		3
RT	151		4
RT	152	Clinical Experience II	3
RT	180	X-ray Physics II	4
Total S	Semest	er Credits	17
Second	d Year		
Summ		nester	Semester Credits
RT	160	Clinical Experience III	3
Total S	Semest	er Credits	3
Fall Se	emester	•	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 S	Semest	er Credits	12

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Spring Se	mester	Semester Credits
SPCH 15	1 Fundamentals of Public Speaking	g OR 3
SPCH 15	5 Interpersonal Communication	_
RT 29	7 Radiologic Technology Review	4
RT 29	6 IT for Radiographers	1
RT 29	8 Clinical Modalities II	1
RT 29	9 Clinical Experience V	3
Human Relations Elective*		
Total Semester Credits		

*See beginning blue AAS degree pages for listing of all Human Relations course options.

**BIOL 105 can be replaced by BIOL 155/156 or BIOL 157/158.

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

Career Opportunities

Total Program Credits

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 \$30,000-\$44,000, depending on the type and location of the health care facility. The Bureau of Labor Statistics report a median annual salary of \$60,070 in 2017.

Computed Tomography Certificate (028A)

This one semester program prepares post-gradudate 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.

To enroll in this certificate program, 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.

First Semester

Semester Credits

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

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Respiratory Care

swic.edu/respiratory-care

Coordinator: Diane Dodd, ext. 5907

Coordinators' Assistant: Candice Rodgers, ext. 5355

Dean: Julie Muertz

2+2 Articulation Agreements

• Maryville University – BS Healthcare Practice Management

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, 2019 to Feb. 1, 2020
- Completion of biology, chemistry, and algebra in high school or college is required to apply
- Deadline for application documentation is Feb. 1, 2020.
- 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 is accredited by the Commission on Accreditation for Respiratory Care, located at 1248 Harwood Road, Bedford, Texas 76021-4244, phone 817-283-2835, 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 (listed on page 58 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 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 or contact the coordinators' assistant, ext. 5355.

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 the Health Sciences coordinators' assistant at 618-235-2700, ext. 5355, or for an academic advisor, call or visit the 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

Respiratory Care (continued)

until the first week of classes during the fall semester. Contact Enrollment Services at 618-235-2700, ext. 5542/5548, 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 Feb. 1, 2020.

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 <u>General Education Courses</u> can be taken at the Belleville, Red Bud or Sam Wolf Granite City campuses and can be completed prior to admission.
- 2. The <u>RC courses</u> are offered 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 recommended.
- 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 <u>essential functions</u> of the job with or without reasonable accommodations. The essential functions can be found at swic.edu/rc-performance-essentials. Applicants or enrolled

students are encouraged to contact the Disability & Access Center 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 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.

Respiratory Care (continued)

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/SPCH 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 Y	ear		
Summ	er Sen	nester Semester Cre	dits
HRO	100	Medical Terminology*	1
BIOL	105	Human Biology*	4
Total S	Semest	er Credits	5
Fall Se	meste	r Semester Cre	dits
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 S	Semest	er Credits	17
Spring	Seme	ster Semester Cre	dits
SOC	153	Introductory Sociology*	3
RC	110	Cardiopulmonary Pathology**	3
RC	111	Respiratory Care Pharmacology**	3
RC	112	Respiratory Care Practices and Procedures II	5
RC	113	Clinical Practice I	4
Total S	Semest	er Credits	18

Summe	er Sen	nester Semester Cre	dits
RC	114	Respiratory Care Practices and Procedures III	2.5
RC		Clinical Practice II	2
Total S	emest	er Credits	4.5
Second	Year		
Fall Se	meste	r Semester Cre	dits
ENG	102	Rhetoric and Composition II* OR	3
SPCH	151	Fundamentals of Public Speaking*	
RC	203	Respiratory Care Practices and Procedures IV	5
RC	204	Clinical Practice III	4
Total Semester Credits			12

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Spring Semester Semester		redits	
PSYC	151	General Psychology*	3
RC	205	Respiratory Care Practices and Procedures V	3
RC	206	Clinical Practice IV	4
RC	207	Respiratory Care in Review	4.5
Total Semester Credits			14.5

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Total Program Credits

*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 2019 Semester to be eligible for RC 104 in the Fall 2019 Semester. BIOL 155 & 156/157 & 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 very good, especially for therapists with experience working with infants.

Average Starting Salary

Per graduate feedback, salaries start at about \$35,000, depending on the size and location of the health care facility. 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.

Sign Language Studies: Interpreter

swic.edu/sls

Coordinator/Faculty: Karyn Houston email: karyn.houston@swic.edu OR 618-310-0055

Faculty: Susen McBeth

Dean: Julie Muertz

The SWIC Sign Language Studies degree 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 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 17 semester credits of General Education Courses and 50 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.

Field experience/practicum courses are completed off campus in various deaf/hard of hearing community events. Students will be required to travel outside of the college district for field experience/practicum courses. Students may be required to have a criminal background check and/or drug testing depending on the setting (educational or governmental institution) when enrolled in SLS 206, SLS 230, and/or SLS 275. Additionally, in SLS 101, 102 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 275.

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 equivalency certificate, or is transferring from an accredited college or university. To enroll, students must:

- A. Complete a SWIC New Student Information Form and registration form to enroll in classes.
- B. Complete the SWIC Placement Test. To enroll, SWIC Placement Test results must qualify the student for enrollment in ENG 101 or greater and MATH 94 or greater. To schedule the SWIC Placement Test, call or visit the Testing Center at the Belleville Campus, 618-235-2700, ext. 5182; the Red Bud Campus, 618-282-6682, ext. 8114; or the Sam Wolf Granite City Campus, 618-931-0600, ext. 7337.

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 Disability & Access Center 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.

Sign Language Studies: Interpreter (continued)

- 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* beginning on page 246.

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 Ye	ear		
Fall Ser	mester	5	Semester Credits
SLS	100	Non-Verbal Communications	2
SLS	101	American Sign Language I (Fall C	Only) 5
SLS	110		3
SLS	125	ASL Fingerspelling & Numbers	1
ENG	101	Rhetoric & Composition I	3
SPCH	151		g 3
Total S	emeste	er Credits	17
Spring	Semes	ter S	Semester Credits
Opring	OCILICS		ocinicated Citentia
	102	American Sign Language II (Spri Field Experiences (Spring Only)	
SLS SLS	102 105	American Sign Language II (Spri Field Experiences (Spring Only)	
SLS SLS SLS	102 105 120	American Sign Language II (Spri	ng Only) 5
SLS SLS SLS SOC	102 105 120 153	American Sign Language II (Spri Field Experiences (Spring Only) ASL Linguistics I (Spring Only)	ng Only) 5 2 3
SLS SLS SLS SOC Social/I	102 105 120 153 Behavio	American Sign Language II (Spri Field Experiences (Spring Only) ASL Linguistics I (Spring Only) Introductory Sociology	ng Only) 5 2 3 3
SLS SLS SLS SOC Social/I	102 105 120 153 Behavio	American Sign Language II (Spri Field Experiences (Spring Only) ASL Linguistics I (Spring Only) Introductory Sociology or Science Elective**	ng Only) 5 2 3 3 3
SLS SLS SLS SOC Social/I	102 105 120 153 Behavio	American Sign Language II (Spri Field Experiences (Spring Only) ASL Linguistics I (Spring Only) Introductory Sociology or Science Elective**	ng Only) 5 2 3 3 3

Secon	a Year		
Fall S	emester	Semester Cred	lits
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 IÎ (Fall Only)	3
SLS	255	Transliterating (Fall Only)	3
Total	Semeste	er Credits	16
	Fall S SLS SLS SLS SLS SLS	SLS 203 SLS 205 SLS 206 SLS 210 SLS 255	Fall SemesterSemester CreeSLS203American Sign Language III (Fall Only)SLS205Interpreting I (Fall Only)SLS206Interpreter Principles and Practices (Fall Only)SLS210ASL Linguistics II (Fall Only)

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Sprin	g Seme	ster Semeste	r Credits
SLS	220	Interpreting II (Spring Only)	3
SLS	230	Interpreting Practicum (Spring Only)	3
SLS	225	Sign to Voice (Spring Only)	3
SLS	270	Educational & Specialized	
		Interpreter Settings (Spring Only)	3
SLS	289	Platform Interpreting OR	
Appro	ved Ele	ective***	3
Huma	ın Well-	-Being Elective	3
		er Credits	18
Total	Progra	m Credits	67

**See beginning AAS degree (blue) pages for listing of all Social
Science and Human Well-Being options.
***Approved electives: ACCT 105, AOJ 100, AOJ 151,
AOJ 203, BUS 101, ECE 110, ECE 112, ED 267, PARL 120,
PARL 260, or PARL 270,

Sign Language/Basic Communication Certificate (024A)

This certificate is to learn how to enhance sign, not for interpreter placement or certification.

First Y	ear		
Fall Se	meste	r 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 S	Semest	er Credits	14
Spring	Seme	ster Semester C	Credits
SLS	102	American Sign Language II (Spring Only)	5
SLS	105	Field Experiences (Spring Only)	2
Total S		er Credits	7
Total I	Progra	m 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 275 Interpreting Practicum II is recommended.

Transfer to MacMurray College under an articulation agreement to complete a bachelor's degree in interpreter preparation.

Average Starting Salary:

Per graduate feedback, interpreters earn between \$15 and \$75 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.

Warehousing and Distribution

Dean: Bradley Sparks, ext. 7420 email: bradley.sparks@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)***

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 So	emest	er Credits	10

^{***}All courses are taken concurrently and offered during one semester.

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

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.

Web Technologies

swic.edu/web-technologies

For more computer classes, see:
Computer Information Systems
Cybersecurity and Networking
Graphic Communications
Office Administration and Technology

Coordinator/Faculty: Nikki Hensley, ext. 5382

Faculty: Beth Burns

Dean: Janet Fontenot

The Web Technologies program provides the technical skills and knowledge required for the design, development and maintenance of websites and services. Students completing the program may be responsible for all technical aspects of a website, including performance issues. In addition to web-specific applications, instruction includes commonly used programming languages, operating systems and software packages.

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 (0011)

First Yea	ır		
Fall Sen	iester		Semester Credits
CIS	174	Web Fundamentals I	3
CIS	180	Introduction to Programming	3
CIS	195	Introduction to Databases	3
ENG	101	Rhetoric & Composition I	3
Humani	ties or	Social Science Elective	3
Web Sul	o Plan	Option	2-3
Total Se	meste	r Ĉredits	17-18

Spring Sen	nester Sen	nester Credits
	77 Web Development I	3
CIS 18	87 Web Programming I	3
CIS 25	59 Current Web/Graphic Technology	3
English or	Journalism Elective	3
Web Sub P	lan Option	6
Total Seme	ester Ĉredits	18

Second	d Year		
Fall Se	mester		Semester Credits
CIS	212	Web Development II	3
CIS	256	Web Server Programming I	3
Human Relations Elective			3
Web St	Web Sub Plan Option 6		
Total Semester Credits 15			

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Spring Semester	Semester Credits
CIS 277 Web Technologies	3
CIS 288 Web Server Programming II	3
CIS 296 Web and Graphics Internship	3
Human Well Being Elective	2
Communications/Humanities/Social Science/	
Human Well Being Elective	1-3
Web Sub Plan Option	3
Total Semester Credits	15-17
Total Program Credits	65-68

Sub Plans Available – please select one of the following:

Web Designer

CIS	147	Fonts & Type	2
CIS	171	Computer Graphics	3
CIS	172	Photo Manipulation	3
CIS	176	Web Fundamentals II	3
CIS	272	Photo Manipulation II	3
MKT	227	SEO & Web Analytics for Marketing	3

Web Development

NETW	101	Introduction to Networking	3
NETW	188	Windows Server I	3
CIS	250	C++ Programming I	3
CIS	274	Mobile Application Development	3
CIS	275	SQL	3
CIS	287	Web Programming II	3

All students must complete graduation requirements listed in the front of the blues pages of this catalog for an Associate in Applied Science degree including the requirement for Human Relations coursework.

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

Certificate Programs

Web Coding (011D)

Students completing the Web Coding Certificate will learn software and coding principles required to construct websites. Emphasis will be placed on good HTML coding techniques. Students will learn to code for specific browsers and will learn how to include animation and sound on websites.

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	277	Web Technologies	3
CIS	287	Web Programming II	3
CIS	288	Web Server Programming II	3
Total Credits		- · · ·	30

Web Design (011E)

Students completing the Web Design Certificate will learn software and design principles required to construct websites. Emphasis will be given to graphics, colors, tiles, image maps, rollovers, navigation bars, alignment, composition, web typography and the use of HTML editors. Students will learn to design for specific browsers and will learn how to include animation and sound on websites.

CIS	147	Fonts & Type	2
CIS	171	Computer Graphics	3
CIS	172	Photo Manipulation	3
CIS	173	Graphics and Animation	3
CIS	174	Web Fundamentals I	3
CIS	176	Web Fundamentals II	3
CIS	180	Introduction to Programming	3
CIS	187	Web Programming I	3
CIS	257	Electronic Publishing	3
MKT	227	SEO and Web Analytics for Marketing	3
Total Credits		·	29

Java Programming (011F)

Students completing the Java Programming Certificate will learn the basic concepts and skills necessary to create programs using the Java 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. Students will establish a Java programming environment using Sun's Java Software Development Kit. Students will establish a web server environment using Apache's Tomcat Servlet engine and students will be introduced to the Eclipse IDE.

CIS	187	Web Programming I	3
CIS	287	Web Programming II	3
Total Credits			6

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 Web Technologies 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 Business Division and the vice president for Instruction. 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* beginning on page 246.

Career Opportunities

A graduate of the Web Development and Administration program is prepared to work as a:

- Webmaster
- Web administrator
- Web coder
- Web designer
- Web developer
- Web support worker
- Computer programmer
- Web manager

Welding Technology

swic.edu/welding

Faculty: Kevin Corgan, ext. 7423 email: kevin.corgan@swic.edu

Dean: Bradley Sparks

The Welding Technology program prepares welders, burners and related personnel to meet the needs of area and national industry. Emphasis is on practice and principles necessary for industry. SWIC follows American Welding Society Level I and II National Standards. In addition to the Associate in Applied Science degree that can be earned at SWIC, the student can earn a bachelor's degree by transferring to Ferris State University. 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 Credit			dits	
CMT	244	Occupational Safety & Health I	3	
HES	151	Personal Health and Wellness	2	
WLDT	101	Introduction to Welding	6	
WLDT	106	Weld Fabrication Blueprint Reading	3	
GT	105	Introduction to Technical Mathematics Ol	R 4	
MATH	112	College Algebra OR higher level Math		
Total Ser	nester		18	
Spring Semester Semester Credits				
ENG	101	Rhetoric & Composition I	3	
MGMT	213	Human Relations in the Workplace OR		
MGMT	214	Principles of Management OR		
MGMT	221	Fundamentals of Labor Relations	3	
WLDT	152	All Position Arc Welding	5	
WLDT	107	Adv. Blueprint Reading	5 2 3	
Humanit	Humanities OR Social Science Course 3			
Total Ser	Total Semester Credits 16			
Second Y	'ear			
Fall Sem	Fall Semester Credits			
WLDT	201	Advanced Arc Welding	6	
Commun	Communications Course OR 3			
ENG	103	Technical Communication		
Human Relations Course 3				
Technical Electives* 5				

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Total Semester Credits

Spring Semester Sem			ester Credits
WLDT	252	Pipe Welding	4
WLDT	253	GTAW/GMAW/FCAW/PAC	4
WLDT	254	Testing and Inspection of Welds	3
WLDT	255	Layout and Fitup for Welders	3
Technical Electives*			5
Total Semester Credits			19
Total Program Credits 70			

*Any course with a CAD, CMT, EET, HVAR, IDP, IML, PMT or WLDT prefix

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 available.

Welding	Techn	ology Certificate (062A)	
WLDT	101	Introduction to Welding	6
WLDT	106	Weld Fabrication Blueprint Reading	3
WLDT	152	All Position ARC Welding	5
Total Cr	edits	C	14
Welding	Techn	ology Advanced Certificate (062B)	
WLDT	107	Advanced Blueprint Reading	2
WLDT	201	Advanced ARC Welding	6
WLDT	253	GTAW/GMAW/FCAW/PAC	4
Total Cr	edits		12
Welding	Techn	ology Specialized Certificate (062C)	
WLDT	252	Pipe Welding	4
WLDT	254	Testing and Inspection of Welds	3
WLDT	255	Layout and Fitup for Welders	3
Total Cr	edits	,	10
Advance	d Weld	ding Manufacturing (062D)	

Some courses may have requisites. Refer to the *Course Description Guide* beginning on page 246.

Robotic Welding & CNC Cutting

5

Welding Automation

Career Opportunities

A graduate of the Welding Technology program is prepared to work as a:

Welder

WLDT 260 WLDT 270

Total Credits

Fitter

17

- Welding inspector
- Welding technician
- Layout position