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| **Career Goal: The Computer-Aided Design Program embraces the collective mission to fulfill the needs of the construction and manufacturing industries by preparing graduates with the skills and experience necessary to enter a variety of entry-level jobs.***This Career Pathway Plan of Study should serve as a guide, along with other career planning materials, as learners continue on a career path.* |
| **Education****Levels** | **Grade** | **English** | **Math** | **Science** | **Social Studies/ Sciences** | **Other Required Courses or Recommended Electives** | **Career & Technical Courses and/or Degree Major Courses** | **Career Learning Experiences in Computer-Aided Design** | For further information about pursuing a career in Computer-Aided Design, visit:**SWIC.edu**College Credit Opportunities: Students should take advantage of dual-credit courses offered by SWIC.Determine placement for reading, writing and math by taking placement testing at SWIC in March/April of junior year. If needed, consider taking developmental coursework the following year. SWIC students pursue a range of design fields including manufacturing, architectural, civil, E and I, pipe, structural, and surveying. SWIC graduates are employed by companies and agencies such as Anheuser-Busch, GE-Power, Monsanto, Sverdrup Corporation, Illinois Department of Transportation and Ameren.Bachelor's Degrees:To be developed |
| **Secondary** | **9** | English IWritingLanguage Arts | Algebra Ior Pre-Algebra | Biology Ior Earth Scienceor Physical Science | Geographyor World History | Driver's ED\*or Health\*or P.E.  | Introduction to: Metals, Manufacturing, Welding, Technology or Engineering | **Career Options:**To be developed**Career Learning Experiences:*** Apprenticeship
* Internship
* Job shadowing
* Part-time job
* Work experience

**Curricular Experiences:*** Skills USA
* Auto Clubs

**Extracurricular Learning Experiences:*** Student Government
* School Newspaper
* School Yearbook
* Science Club
* FFA
* School-sponsored

activities/organizations**Service Learning Experiences:*** Boy Scouts of America
* Girl Scouts of the USA
* Community Service Volunteer
* Peer Tutoring or Mentoring
* School-sponsored activities/organizations
 |
| **10** | English IIWritingLanguage Arts | Geometryor Algebra I | Chemistryor Biology I | U.S. Government\*or Consumer Ed\* | Driver's ED\*or Health\*or P.E. or Musicor Foreign Language | Introduction to: Metals, Manufacturing, Welding, Technology or Engineering |
| **11** | English IIIWritingLanguage Arts | Algebra IIor Geometry | Chemistryor Biology I | U.S. History | P.E.or Musicor Foreign Language | **11th & 12th Grade****Course Work**\*\*Automotive Mechanics\*\*Construction Trades\*\*Design and Design\*\*Electrical/ElectronicsEngineering TechnologyInterrelated Coop. Education\*\*Manufacturing Technology\*\*Precision Metalworking\*\*Precision Production Trades\*\*Welding |
| *Complete College Placement Testing in March or April of Junior year.* |
| **12** | \*\*English IVCOMP/Research\*\*\*Speech/Oral Communication\* | Pre-Calculusor Trigonometry | Biology Ior Earth Scienceor Physical Science | Sociology\*or \*\*Psychology\* | P.E. or Musicor Foreign Language |
| **Postsecondary** | *Successfully completed dual credit/enrollment courses do not have to be repeated at postsecondary level.* |
| Refer to:[**SWIC.edu**](http://www.swic.edu/)for Computer-Aided Design program requirements |
| \*One Semester\*\*Dual Credit/Dual Enrollment opportunities- students must meet college requirements to enroll. |  Revised 7-5-19 |