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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 I  Writing  Language Arts | Algebra I  or Pre-Algebra | Biology I  or Earth Science  or Physical Science | Geography  or 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 II  Writing  Language Arts | Geometry  or Algebra I | Chemistry  or Biology I | U.S. Government\*  or Consumer Ed\* | Driver's ED\*  or Health\*  or P.E.  or Music  or Foreign Language | Introduction to: Metals, Manufacturing, Welding, Technology or Engineering |
| **11** | English III  Writing  Language Arts | Algebra II  or Geometry | Chemistry  or Biology I | U.S. History | P.E.  or Music  or Foreign Language | **11th & 12th Grade**  **Course Work**  \*\*Automotive Mechanics  \*\*Construction Trades  \*\*Design and Design  \*\*Electrical/Electronics  Engineering Technology  Interrelated Coop. Education  \*\*Manufacturing Technology  \*\*Precision Metalworking  \*\*Precision Production Trades  \*\*Welding |
| *Complete College Placement Testing in March or April of Junior year.* | | | | | |
| **12** | \*\*English IV  COMP/Research\*  \*\*Speech/Oral Communication\* | Pre-Calculus  or Trigonometry | Biology I  or Earth Science  or Physical Science | Sociology\*  or \*\*Psychology\* | P.E.  or Music  or 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 |