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| |  | | --- | | **Civil Engineering Technology, AS** | |  |   Return to {$returnto_text} Return to: [Programs of Study](http://catalog.fsw.edu/content.php?catoid=15&navoid=1327)  **Purpose**  The Associate in Science (AS) in Civil Engineering Technology program prepares students for further education and careers in the architecture and construction fields. The content includes but is not limited to surveying, highway design, soils and foundations, photogrammetry, asphalt design, drainage and geology, concrete design, orientation to utilities, structural design, estimating, drafting, legal and ethical considerations, employability skills, leadership and human relations skills, health and safety, and supportive general education. Computer use is essential. Technical report writing, record keeping, and mathematical computations are important aspects of these occupations.  **Program Structure**  This program is a planned sequence of instruction consisting of 60 credit hours in the following areas: 18 credit hours of General Education Requirements; 39 credit hours of Program Requirements, including 16 credit hours of Foundation courses and 23 credit hours of Advanced courses; and 3 credit hours of Electives.  **Course Prerequisites**  ***Many courses require prerequisites.*** Check the description of each course in the list below for prerequisites, minimum grade requirements, and other restrictions. Students must complete all prerequisites for a course prior to registering for it.  **Graduation**  Students must fulfill all requirements of their program to be eligible for graduation. Students must indicate their intention to attend commencement ceremony by completing the Commencement Form by the published deadline. |
| **General Education Requirements: 18 Credit Hours**   * [ENC 1101 - Composition I](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **3 credits** * [ENC 1102 - Composition II](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **3 credits**        * General Education Core Social Sciences (Students required by F.A.C. 6A-10.02413 to demonstrate Civic Literacy should take AMH 2020 or POS 2041) **3 credits** * General Education Core Mathematics(Recommended: [MAC 1105](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327#tt1813)) **3 credits** * General Education Core Humanities **3 credits** * General Education Core Natural Sciences (Recommended: EVR 1001C) **3 credits**   **Program Requirements: 39 Credit Hours**  **Foundation Courses:  16 Credit Hours**   * [BCN 1040 - Introduction to Sustainability in Construction](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **3 credits** * [BCN 1272 - Blueprint Reading](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **3 credits** * [BCN 2710 - Construction Procedures](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **4 credits** * [EGS 1001 - Introduction to Engineering](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **3 credits** * [ETD 1320 - Computer Aided Drafting](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **3 credits**   **Advanced Courses:  23 Credit Hours**   * [ETD 1103 - Engineering Graphics I](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **4 credits** * [GIS 1040 - Geographic Information Systems (GIS)](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **3 credits** * [GIS 1045 - Geographic Information Systems (GIS) Customization](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **3 credits** * [MAC 1114 - Trigonometry](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **4 credits** * [SUR 1100 - Surveying](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **4 credits** * [SUR 2140 - Advanced Surveying](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **4 credits** * [ETD 2930 - Special Topics/Capstone-Engineering Technologies](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **1 credit**   **Electives: 3 Credit Hours**   * Any 1000-2000 level courses with the following prefixes: BCT, BCN, EET, or ETD   **OR**   * [ARC 1211 - Introduction to Architecture](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **3 credits** * [ECO 2013 - Principles of Macroeconomics](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327)  **3 credits** * [SLS 1301 - Career and Educational Exploration](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **1 credit** * [SLS 1350 - Employability Preparation](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **2 credits** * [SLS 1515 - Cornerstone Experience](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **3 credits** * [MAC 2233 - Calculus for Business and Social Sciences I](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **4 credits** * [STA 2023 - Statistical Methods I](http://catalog.fsw.edu/preview_program.php?catoid=15&poid=1411&returnto=1327) **3 credits** (if not taken above)   **Note:** For students who are transferring to a state university, it is recommended that the following elective be selected: MAC 2233 or STA 2023.  **Total Degree Requirements: 60 Credit Hours**  **Information is available online at:** [**www.fsw.edu/academics/**](http://www.fsw.edu/academics/) **or on the School of Business and Technology Home Page at:** [**www.fsw.edu/sobt**](http://www.fsw.edu/sobt) |
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