CAD/Drafting Technology

Drafting is common to all industrial design, manufacturing and construction activities. The drafter interprets the engineer’s ideas, presenting them in the language of manufacturing and construction. Recognized as one of the finest Drafting programs in the state, CSM's instructors have recent industry experience and classrooms are equipped with the latest equipment, including computer-aided drafting (CAD) stations.

Career Opportunities

A graduate of CSM’s Drafting Technology program may select from several enviable opportunities. The graduate may immediately enter industry as a draftsperson with the potential to become a designer or may opt to continue their education at a state university for a Bachelor's degree in Industrial Technology, becoming eligible for technical management positions.

Program Learning Outcomes

Students completing this program will be able to:

1. Apply and integrate computer technology in the form of 2D and 3D CAD software applications to create drafting drawings, presentation graphics and 3D design image models for project solutions which are skills necessary for entry-level employment in the drafting industry.
2. Use engineering organization standards, technical vocabulary and industry conventions of working drawings for mechanical, structural, architectural and industrial project types.
3. Communicate effectively in a professional environment and continue growth in professional knowledge and skills.

Requirements

**Required Core Courses: 15 units**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRAF 121</td>
<td>Computer-Aided Drafting I</td>
<td>3 units</td>
</tr>
<tr>
<td>DRAF 130</td>
<td>Mechanical Design with Computer-Aided Drafting (CAD)</td>
<td>3 units</td>
</tr>
<tr>
<td>DRAF 110</td>
<td>SolidWorks I</td>
<td>3 units</td>
</tr>
<tr>
<td>DRAF 111</td>
<td>Solidworks II</td>
<td>3 units</td>
</tr>
<tr>
<td>DRAF 113</td>
<td>REVIT</td>
<td>3 units</td>
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</tbody>
</table>

**Required Selective Courses: 3 units, one course from the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSW (Business Applications Windows Platform)</td>
<td>3 units</td>
<td></td>
</tr>
<tr>
<td>DGME (Digital Media)</td>
<td>3 units</td>
<td></td>
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<tr>
<td>ELEC (Electronics)</td>
<td>3 units</td>
<td></td>
</tr>
<tr>
<td>OR ENGR 100</td>
<td>Introduction to Engineering</td>
<td>3 units</td>
</tr>
</tbody>
</table>

One course from any of the following disciplines: ARCH (Architecture) | 3 units