Design Drafting

Associate of Applied Science Degree

Description
In the Drafting & CAD Technology program, students acquire the skills necessary for entry-level drafting jobs in the design/drafting industry using computer-based systems to produce technical illustrations used in manufacturing, production, and construction. Sometimes called a CAD (Computer Aided Drafting) technician, students will create design concepts that are workable in the real world. Using the CAD software, students perform calculations, develop simulations, and manipulate and modify the displayed material. Although most drafters work at computer terminals much of the time, students will also learn traditional drafting which entails creating manual drawings at drafting tables.

Graduates are prepared to
• Create construction documents and shop drawings for architects, engineers and manufacturers.
• Visualize and measure 3D objects and buildings and recreate them in computer-aided design software (CAD).
• Render objects and buildings for presentation in programs including Adobe Photoshop, AutoCAD Architecture, SolidWorks, Revit, 3DS Max, and SketchUp.
• Create a complete set of residential plans using CAD software.
• Draw a site plan including topography using CAD software.
• Estimate construction material quantities and building costs.

Electives: Choose 1 of the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDSN 276 - Presentation &amp; Animation1-3</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 210 - Small Business Entrepreneurship3</td>
<td></td>
</tr>
<tr>
<td>BMGT 215 - Human Resource Management3</td>
<td></td>
</tr>
</tbody>
</table>

Total Program Credits: 60 or more

1 Indicates prerequisites required
2 Placement in course(s) is determined by placement assessment
3 Indicates an elective

Many students need preliminary math and writing courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and English placement before planning out their full program schedules.

A grade of “C-” or above is required for graduation in each course.

Students wishing to apply comparative course work for Degree and/or Prerequisite credit must have received a B or better in that course work and receive Program Director approval.