Computer Aided Design and Engineering Technology - Vehicle Design Option (CAD.VDO.AAS)

Associate in Applied Science
Engineering/Manufacturing and Industrial Technology
Auburn Hills Campus

This program leads to an associate in applied science degree with a specialization in CAD Vehicle Design. Program graduates are encouraged to transfer to one of OCC’s four-year university partners and continue their education in Engineering Technology; however, graduates are prepared for occupations and careers in animation design industries. Rapid prototyping and co-op further enhance the learning experience.

The Vehicle Design option focuses on preparation for entry-level vehicle design positions using the computer as a tool in engineering, analysis, design, industrial technology, and manufacturing systems. The VDO specialization covers the principles and concepts of vehicle underbody and upper-body design, creation of assembly structures, advance modeling techniques, building parametric models, data organization, and advance surface development.

High school graduates who completed state-approved career and technical education (CTE) programs may be eligible to receive college credit for work completed while in high school. Detailed information can be obtained by contacting an OCC Counseling Office or by visiting oaklandcc.edu/articulation.

Program Plan Example - Not Available

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD 1101</td>
<td>Introduction to CAD</td>
<td>4</td>
</tr>
<tr>
<td>CAD 1201</td>
<td>Introduction to Engineering Graphics</td>
<td>4</td>
</tr>
<tr>
<td>CAD 1450</td>
<td>Drafting and Design Co-op Internship</td>
<td>3</td>
</tr>
<tr>
<td>CAD 2102</td>
<td>Fundamentals of Part Design and Its Applications</td>
<td>4</td>
</tr>
<tr>
<td>CAD 2131</td>
<td>Advanced Drafting and Design Co-op Internship</td>
<td>3</td>
</tr>
<tr>
<td>DDT 1150</td>
<td>Descriptive Geometry</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours for Program-Related Courses 58-59

General Education Requirements

Communication / English (3-credits) 3

- Complete 3 credits from Communication/English courses listed in the General Education Distribution List (http://catalog.oaklandcc.edu/graduation-requirements/general-education-distribution/#communication-english)

Fine Arts / Humanities (3-credits) 3

- Complete 3 credits from Fine Arts/Humanities courses listed in the General Education Distribution List (http://catalog.oaklandcc.edu/graduation-requirements/general-education-distribution/#fine-arts-humanities)

Mathematics / Science (3-credits) Satisfied

Social Science (3-credits) 3

- Complete 3 credits from Social Science courses listed in the General Education Distribution List (http://catalog.oaklandcc.edu/graduation-requirements/general-education-distribution/#social-science)

Written Communication (3-credits) Satisfied

Additional elective credits needed to meet requirements for an Associate in Applied Science degree 0

Total Credit Hours 67-68

1 One of the following may be used as a co-op substitution: CAD 1105, CAD 2000, CAD 2105, CAD 2131, CAD 2141, CAD 2161, or CAD 2340.

2 Course may be used to meet General Education requirements.

Students transferring to other institutions should select ENG 1510.

A minimum cumulative 2.00 grade point average (GPA) overall is required for graduation.