

# COMPUTER-AIDED DRAFTING AND DESIGN

ASSOCIATE OF APPLIED SCIENCE

Quarter Credit Hours Required = 96

Virginia College provides full CAD facilities and a comprehensive education for those individuals seeking to enter career fields that use computer-aided drafting and design. The College provides computer-aided drafting software, supplemental software, and general education curriculum.

Upon successful completion of this program, students should be able to

- exhibit a broad-based knowledge of the use of CAD in their chosen career path;
- demonstrate basic computer and advanced CAD drafting skills;
- demonstrate basic skills in 3D design, CAD customization, and surface modeling and develop a portfolio;
- use graphic software and a variety of CAD applications;
- exhibit skills in selected technical and general education curriculum; and
- coordinate a successful job search.

## FOUNDATION:

## Quarter Credit Hours

EDU 1010	Learning Framework .....	4
CAD 2950	CAD Portfolio Development .....	6
<b>Total Minimum Required Foundation Credits .....</b>		<b>10</b>

## AREA OF CONCENTRATION:

CAD 1005	CAD Drafting .....	3
CAD 1010	CAD Fundamentals .....	3
CAD 1200	Intermediate CAD .....	3
CAD 2200	3D Graphics Fundamentals .....	3
CAD 2240	Advanced 3D Graphics .....	6
CAD 2300	Introduction to 3D Visualization .....	6
CAD 2310	Architectural Desktop .....	3
CAD 2380	Customization and AutoLISP .....	3
CAD 2400	Advanced CAD I .....	6
CAD 2690	CAD Design and Project .....	6
CAD 2695	Advanced CAD Design and Project .....	6
<b>Total Minimum Required Area of Concentration Credits .....</b>		<b>48</b>

## AREA OF CONCENTRATION ELECTIVES:

A minimum of 22 credit hours are to be selected in consultation with the Program Director from approved CAD-related courses completed at Virginia College or transferred from another accredited institution.

<b>Total Minimum Area of Concentration Elective Credits .....</b>	<b>22</b>
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## GENERAL EDUCATION:

These courses are to be selected in consultation with the Program Director so as to effectuate a balanced educational program. Select a total (minimum) of 16 credit hours as indicated below:

Communications .....	8
Mathematics .....	4
Social and Behavioral Sciences .....	4
<b>Total Minimum Required General Education Credits .....</b>	<b>16</b>

<b>TOTAL MINIMUM QUARTER CREDIT HOURS REQUIRED .....</b>	<b>96</b>
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