

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
Total Minimum Required Foundation Credits		10

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
Total Minimum Required Area of Concentration Credits		48

AREA OF CONCENTRATION ELECTIVES:

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

Total Minimum Area of Concentration Elective Credits	22
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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
Total Minimum Required General Education Credits	16

TOTAL MINIMUM QUARTER CREDIT HOURS REQUIRED	96
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