

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-related courses completed at Virginia College or transferred from another accredited institution.	
Total Minimum Area of Concentration Elective Credits	22

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