

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

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