

Computer-Aided Drafting and Design Technology Program A.A.S. Degree

In this technological society, the demand for trained CADD (Computer-Aided Drafting and Design) personnel continues to grow. Students have the opportunity to prepare themselves in either basic or specialized Computer-Aided Drafting and Design areas. The graduates will be fully prepared to take positions as CADD operators, drafters and design technicians.

Graduates of this program will be able to:

- Utilize AutoCAD's mode settings, drawing aids, toolbars, prototype drawings and shortcuts
- Operate the CAD work-station components including the microcomputer, input (pointing) device and output (hardcopy) devices (plotter & printer)
- Prepare and plot a complete set of working drawings, deciding which views to include, if auxiliary or section views are needed, and how to dimension and plot each drawing
- Produce professional quality two-dimensional and three-dimensional drawings using the AutoCAD software
- Recognize the need for continued learning throughout their career

Computer-Aided Drafting and Design Academic Credit Certificate of Achievement

This short program is designed to train the students in the area of Computer-Aided Drafting and Design. It is tailored to meet entry-level requirements in the Computer-Aided Drafting and Design field. The credits earned may later be applied toward an A.A.S. degree program.

Requirements

Career Studies - 25 credits as follows:
(Credit hours listed with each course)

- DRFT 106 Fundamentals of Basic Drafting 3
- CADD 121 Engineering Graphics with CADD 4
- CADD 211 Intermediate Computer-Aided Drafting 3
- CADD 212 Computer-Aided Architectural

Drafting and Design 4
CADD 214 3-D Modeling 4
CADD 220 CAD for Rendering & Animation 4
Approved Technical electives 3

Requirements

General Education - 20 credits as described on page 51 of the Catalog.

The following courses are recommended for students choosing this program.

(Credit hours listed with each course)

ECON 107 Economics 3

ENGL 121 English Composition: 3

The Writing Process

ENGL 122 English Composition: 3

Writing and Research

HIST 105 World Civilization I 3

MATH 151 Intermediate Algebra 4

PHYS 111 General Physics I (non-calculus) 4

Career Studies — 32 credits as follows:

ARCH 151 Architectural Construction I 3

CADD 121 Engineering Graphics with CADD 4

CADD 211 Intermediate Computer- 3

Aided Drafting

CADD 212 Computer-Aided Architectural 4

Drafting and Design

CADD 214 3-D Modeling with CAD 4

COMP 129 Information Technology 3

DRFT 106 Fundamentals of Basic Drafting 3

ELEC 103 Electrical Skills and Techniques 4

MATH 152 College Algebra & Trigonometry 4

Suggested Technical Electives - 9-12 credits from the following:

Architectural

ARCH 152 Architectural Construction II 3

CADD 220 CAD for Rendering and 4

Animation

CADD 225 3D Architectural CAD 4

Computer Art

CADD 220 CAD for Rendering and 4

Animation

ARTC 141 Digital Paint I 3

ARTC 142 Digital Paint II 3

Computer Repair/Networking

COMP 145 Introduction to UNIX 3

ELEC 243 Mini/Microcomputer Interfacing 4

ELEC 244 Computer Peripherals, Data

Communications and
Networking 4
Electronic
ELEC 111 Electrical Circuits I 4
ELEC 112 Electrical Circuits II 4
PHYS 112 General Physics I (non-calculus) 4
Website Design
COMP 140 Designing/Developing Websites 3
COMP 166 Web Design Using HTML 3
Approved Technical Elective 3-4

**Suggested Sequence - Computer-Aided Drafting and
Design Technology Program A.A.S. Degree**

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites and presumes a Fall Term start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

STUDENTS WHO HAVE NO PREVIOUS DRAFTING EXPERIENCE MUST TAKE DRFT 106 UPON ENTRY INTO THE PROGRAM.

Course Code Credits Course Code Credits

SEMESTER 1 SEMESTER 2

CADD 121 4 CADD 211 3

DRFT 106 3 COMP 129 3

ELEC 103 4 Technical Elective 3-4

ENGL 121 3 ENGL 122 3

MATH 151 4 MATH 152 4

18 16-17

SEMESTER 3 SEMESTER 4

ARCH 151 3 CADD 214 4

CADD 212 4 Technical Elective 3-4

HIST 105 3 Technical Elective 3-4

PHYS 111 4 ECON 107 3

14 13-15

Total Credits for Degree 61-64

Programs of Study 73