

DRAFTING TECHNOLOGY (DT)

About the program

The Drafting and 3D Modeling program offers students the opportunity to learn skills required by today's high tech engineering, architecture, and manufacturing industries. The Drafting and 3D Modeling AS degree is accredited by the Association for Technology, Management and Applied Engineering (ATMAE).

Degrees/Certificates within this Program:

- Associate of Science Degree, Drafting & 3D Modeling
- Certificate of Achievement, Drafting & 3D Modeling

Similar Degrees/Certificates offered at CR:

- Associate of Science Degree, Construction Technology
- Certificate of Achievement, Residential Construction II
- Associate of Science Degree, Forestry and Natural Resources Technology, Forest Technology
- Certificate of Achievement, Forest Technology
- Certificate of Recognition, Geomatics
- Associate of Science Degree, CADD/CAM Design and Manufacturing
- Certificate of Achievement, CADD/CAM Design and Manufacturing
- Associate of Science Degree, Manufacturing Technology
- Certificate of Achievement, Manufacturing Technology

Career Opportunities

Employment opportunities in this field include:

- Drafter
- Design Technician
- Engineering Assistant
- Cartographer
- 3D Modeler
- Estimator
- Technical sales

For more information

- Steve Brown, Professor, Drafting
707-476-4347 | steve-brown@redwoods.edu
www.redwoods.edu/Drafting/
- Career & Technical Division, 707-476-4341
- Counseling & Advising, 707-476-4150

Certificate of Achievement, Drafting & 3D Modeling

Program Requirements	Units
DT 23 Engineering Design Graphics or ENGR 23 Engineering Design Graphics	3.0 3.0
DT 25 Computer Aided Design and Drafting	4.0
DT 50 3D CAD Applications	4.0
DT 60 Mechanical Design Drafting	4.0
DT 71 Architectural Drafting Fundamentals	3.0
DT 73 Architectural Drafting - Residential Design	3.0
DT 80 Modeling and Animation	4.0
CIS 1 Computer Information Systems	4.0
IT 152 Technical Computer Applications Lab	1.0
Total Units	30.0

About this Certificate

The Drafting and 3D Modeling Certificate of Achievement offers students the opportunity to learn skills required by today's high tech engineering, architecture, and manufacturing industries. Completers are prepared for entry level jobs such as: drafter, CAD technician, designer, engineering assistant, 3D modeler, and 3D printing technician. Completers will be prepared to solve basic design problems using 2D and 3D CAD, provide engineering support, develop static and animated presentations, and operate 3D printers.

Suggested Program Sequence

Fall Start

Semester 1 DT 23 or ENGR 23, CIS 1
 Semester 2 DT 25, DT 60, DT 71
 Semester 3 DT 50, DT 73, DT 80, IT 152

Spring Start

Semester 1 DT 23 or ENGR 23, CIS 1
 Semester 2 DT 50, DT 80
 Semester 3 DT 26, DT 60, DT 71
 Semester 4 DT 73, IT 152

Program Learning Outcomes

- Produce industry standard design documentation using Computer Aided Drafting (CAD) and technical sketching with an emphasis on architectural, civil design, and mechanical applications.
- Develop design concepts, renderings, and models with consideration for aesthetics, cost, methods of construction and/or manufacturing, and common industrial practices.
- Use common business communication tools such as the internet, MS Office, written reports, and oral presentations.