

DRAFTING AND DESIGN

Faculty

Brutsman, Eggemeyer

This program is designed to provide the graduate with the education necessary for job opportunities in industry and the curricular flexibility to allow students to take course work that should, with proper planning, transfer to a bachelor's degree program in an allied area. Common allied areas would be architecture, engineering, technology, and industrial arts teaching.

Associate of Applied Science Degree Drafting and Design Technology

The degree in drafting and design technology requires a core of technical courses in the areas of engineering drafting, residential and commercial architecture, computer-aided drafting, and surveying. This core can provide the preparation necessary for a variety of assignments that may be available in industry. In addition, course work in the areas of science, mathematics, communications, social and behavioral sciences, and humanistic studies provide the general education basis to a productive career and effective citizenship.

(Recommended Curriculum)

General Education (Minimum 17 credits) Credits
 General education coursework can be completed from within or outside of the major field of study.

1. Exploration and Participation (One course minimum)
 - Laboratory Science
 - Mathematics (minimum 1000 level)
2. Communication (One course minimum)
 - Written or spoken communication
 - 1000 level course minimum
3. Relationship with the World (One course minimum)
 - Human behavior
 - U.S. and Wyoming constitutions 1-3
 - Cultural environment
4. General Education Electives
 - Must be chosen from areas 1, 2, or 3 above.
5. Physical Education

Major Requirements

ENTK 1010 Elements of Surveying	3
ENTK 1021 Descriptive Geometry	3
ENTK 1505 Introduction to GIS	4
*ENTK 1510 Drafting I	4
ENTK 1650 Mechanical Drafting and Design I	4
ENTK 2625 Mechanical Drafting and Design II	4
ENTK 1710 Architectural Drafting I	4
ENTK 1720 Architectural Drafting II	4
ENTK 1750 Commercial Architectural Drafting	4
ENTK 2510 CAD-3D Modeling	4
ENTK 2550 Civil Drafting I	4
Approved Electives	6

Approved electives: engineering technology, art, construction, electronics, machine tool, robotics, welding, computer component, and business component.

A grade of "C" or better must be earned in all major requirements.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

Architectural Graphics and Design Certificate (Certificate Requirements)

This certificate is for students wanting to specialize in architectural graphics and design. All classes included in the certificate may be taken concurrently while pursuing the AAS in Drafting and Design Technology.

*ENTK 1510 Drafting I	4
ENTK 1021 Descriptive Geometry	3
*ENTK 1710 Architecture Drafting I	4
ENTK 1720 Architectural Drafting II	4
ENTK 1750 Commercial Architectural Drafting	4
CNTK 2510 Construction Estimating	3
CNTK 2520 Architectural and Construction Planning	3
CNTK 2525 Construction Project Management	3

*These courses are often completed by students previous to being a degree seeking student at Casper College and are included in the AAS Drafting and Design Technology degree as well.

For specific graduation requirements see "Academic Policies" and "Degree Requirements."

Mechanical Graphics and Design Certificate (Certificate Requirements)

This certificate is for students wanting to specialize in mechanical graphics and design. All classes included in the certificate may be taken concurrently while pursuing the AAS in Drafting and Design Technology.

*ENTK 1510 Drafting I	4
ENTK 1021 Descriptive Geometry	3
*ENTK 2510 CAD 3D Modeling	4
ENTK 1650 Mechanical Drafting and Design I	4
ENTK 2625 Mechanical Drafting and Design II	4
MCHT 2780 Computer Numerical Control (CNC) Machining Center	4
MCHT 2790 Computer Numerical Control (CNC) Turning Center	4
MCHT 2800 Computer Assisted Manufacturing	3

*These courses are often completed by students previous to being a degree seeking student at Casper College and are included in the AAS Drafting and Design Technology degree as well.

For specific graduation requirements see "Academic Policies" and "Degree Requirements."

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF ARTS, ASSOCIATE OF SCIENCE, ASSOCIATE OF BUSINESS, ASSOCIATE OF FINE ARTS AND ASSOCIATE OF APPLIED SCIENCE DEGREES.