

Drafting and Design

Contact Info.

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Program Objectives:

Drafters often assist and support engineers, surveyors and architects with drawings, specifications and procedures for the construction and manufacturing of tools, industrial machinery, commercial and residential buildings, bridges, and pipelines.

Type of person that makes a good drafter:

- Students with good 3-D visualization skills
- High aptitude for math and geometry
- Good problem solving skills
- Attention to detail
- High aptitude for working with computers and learning new software



What is the job outlook for drafters?

Drafting services related to the energy and construction industry have been growing exponentially and increasing the need of drafters in the Rocky Mountain region. Increasingly complex design problems associated with new products and technologies is also increasing the demand for drafting services. Often, drafters take on work traditionally performed by engineers and architects, thus also increasing demand for drafters.

Points of Pride

- Small class size
- Updated CAD labs
- Current yearly updates of industry specific software packages
- High rate of job placement for graduates
- Experienced faculty
- Opportunity for transferability to universities not typically available at technical schools

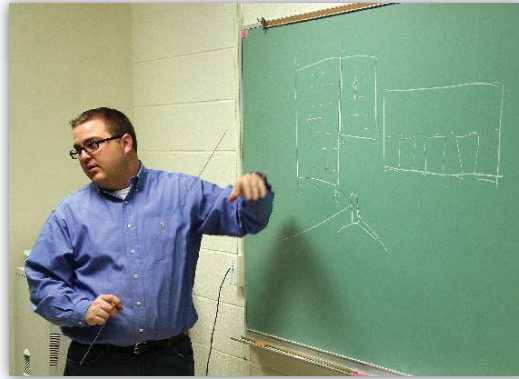
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Educational opportunities

Casper College offers drafting and design within an array of engineering technologies. These include mechanical, civil, and architectural. Students have the opportunity of further specialization within their field of study through the areas of technical education offered at Casper College such as machining, welding, construction, and electronics. Often, students have the opportunity to earn college credits through cooperative education with local industries and firms.

Teaching philosophy:

The curriculum within the drafting and design program offers students both lectures and in-class labs. Emphasis is placed on projects. Often, real world projects are derived from community needs.



Transfer opportunities

Q. Will my credits in a technical field of study transfer to a university?

A. Yes. Casper College is a regionally accredited college. Although students earning associate of applied science degrees usually go into the workforce after completion of a degree or certificate, credits taken at the 1000 level or higher will typically transfer to universities. It is important to speak with your advisor and the institution you plan to transfer to so that the process can be as smooth as possible. Often students may tailor their degree plan to transfer to specific programs at universities such as architecture, engineering, industrial education, or an advanced degree in applied science.

What are the salary expectations for drafters?

Drafters' earnings vary by specialty, location, and level of responsibility. The median annual earnings in 2004 for drafters, depending on specialty, were between \$39,190 and \$43,000. The lowest 10% earned \$27,490 or less. The highest 10% earned \$72,050 or less.



Curriculum: Drafting and Design

Major Requirements:

- o Elements of Surveying
- o Descriptive Geometry
- o Introduction to GIS
- o Drafting I
- o Advanced Drafting
- o Residential Architecture I
- o Residential Architecture II
- o Commercial Architecture
- o Computer-Aided Drafting I
- o Computer-Aided Drafting II
- o CAD 3-D Modeling
- o Civil Drafting I
- o Suggested electives for drafting and design:
 - Computer-Assisted Manufacturing
 - Machine Tool Technology
 - Blueprint Reading
 - Building Materials and Systems
 - Construction Estimating
 - Construction Project Management
 - Drawing
 - Two-Dimensional Design