



Design Drafting Technology-AAS Degree

(Program beginning Fall 2009)

Design drafters translate the ideas and rough sketches of engineers and architects into technical drawings and plans used for manufacturing, aircraft, architecture, civil engineering and other industries. Upon completion of the Associate of Applied Science AAS in Design Drafting Technology, students will have the qualifications necessary for entry level drafting jobs in the design drafting industry.

Graduates will be prepared to:

- Create detail and assembly drawings to American National Standards Institute (ANSI) standards on the drawing board.
- Produce detail and assembly drawings using computer-aided design software (CAD).
- Generate two-dimensional solid models using CAD software.
- Create a complete set of residential plans using CAD software.
- Construct a site plan including topography using CAD Software.
- Solve graphical problems using the principles of descriptive geometry and create thematic maps from GIS data.

According to the U.S. Bureau of Labor Statistics, employment of drafters is expected to grow about 6 percent in the next ten years. Industrial growth, as exhibited in the Gallatin Valley, and more complex design problems should increase the demand for drafting services. CAD systems that are more powerful and easier to use are expected to limit demand for lesser skilled drafters, but opportunities are strong for individuals graduating with at least two years of postsecondary education, particularly from a program that provides strong technical skills and extensive experience with CAD systems. The starting salary in Bozeman for Design Drafters is approximately \$28,000-30,000.

Fall Semester 1st Year			
Course No.	Title		Credits
DRFT 120	Blueprint Reading		2
COMM 135	Interpersonal Communication		3
DRFT 131	Technical Graphics I		4
M 152	PreCalculus Algebra		4
CAPP 120	Introduction to Computers		3
Total Semester Credits			16

Spring Semester 1st Year			
Course No.	Title		Credits
DRFT 132	Descriptive Geometry		3
DRFT 156	Introduction to CAD		3
DRFT 140	Professional Practices		3
WRIT 101	College Writing I		3
M 153	PreCalculus Trigonometry		3
Total Semester Credits			15

Fall Semester 2nd Year			
Course No.	Title		Credits
CET 173	Architectural Const and Materials		3
DRFT 256	3D CAD		3
CIT 272	PC Troubleshoot/Maintenance		4
MFGT 205	Manufacturing Processes		3
DRFT 201	Residential Drafting		3
Total Semester Credits			16

Spring Semester 2nd Year			
Course No.	Title		Credits
DRFT 205	Machine Drafting		3
DRFT 244	Topographical Mapping & GIS		3
DRFT 260	Aerospace Drafting		3
DRFT 261	Civil Drafting		3
DRFT 298	Internship		4
Total Semester Credits			16

Estimated MT Resident Program	Cost:
In-State Resident Tuition and Fees	\$5999
Application Fee	\$ 30
Books/Supplies	\$1700
In-state student total for full two year program:	\$7729

Total Program Credits: 63~
 ~Many students need preliminary math and English before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their Math and English placement with an academic advisor before planning out their full program schedules.