Mechanical Design Technology, Undergraduate Certificate

Visit the Architecture and Engineering Design Department page (https://www.uvu.edu/aed/) for more information on the program and access to advising.

Program Description

The Undergraduate Certificate in Mechanical Design Technology applies the technical and functional elements of mechanical design. Students will take courses in the fundamentals of drafting and design, basic mechanical drafting and design, two-dimensional and three-dimensional software packages, electrical design, and advanced mechanical design.

Program Requirements

Code	Title	Credit Hours
Total Credit Hours		**18**
Discipline Core Requirements		**18 Credits**
EGDT 1010	Electrical Drafting and Design	3
EGDT 1040	Fundamentals of Technical Engineering Drawing	3
EGDT 1050	Intro to 3D Printing and Fabrication	3
EGDT 1070	3 Dimensional Modeling Inventor	3
or EGDT 1071	3 Dimensional Modeling--Solidworks	
EGDT 1200	Mechanical Drafting and Design	3
EGDT 2200	Advanced Mechanical	3

Graduation Plan

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track (http://www.uvu.edu/wolverinetrack/).

First Year		
Semester 1		**Credit Hours**
EGDT 1050	Intro to 3D Printing and Fabrication	3
EGDT 1070 or EGDT 1071	3 Dimensional Modeling Inventor or 3 Dimensional Modeling--Solidworks	3
	Credit Hours	**6**
Semester 2		
EGDT 1040	Fundamentals of Technical Engineering Drawing	3
EGDT 1200	Mechanical Drafting and Design	3
	Credit Hours	**6**
Second Year		
Semester 3		
EGDT 1010	Electrical Drafting and Design	3
EGDT 2200	Advanced Mechanical	3
	Credit Hours	**6**
	Total Credit Hours	**18**

Program Learning Outcomes

1. Demonstrate knowledge of mechanical design and engineering reference materials (Machinery's Handbook).
2. Create quality, industry level design drawings for the design discipline.

Architectural and civil drafters

- Total Positions112,300
- Field Growth1.1%

- Median Salary$61,820
- Average Openings9.2

Electrical and electronics drafters

- Total Positions23,200
- Field Growth4.1%
- Median Salary$69,260
- Average Openings2.2

Mechanical drafters

- Total Positions50,400
- Field Growth-4.9%
- Median Salary$64,060
- Average Openings4.0

Drafters, all other

- Total Positions18,500
- Field Growth-5.7%
- Median Salary$59,260
- Average Openings1.5