Structural Design Technology, Certificate of Proficiency

The Certificate of Proficiency in Structural Design Technology applies the technical and functional elements of structural steel detailing. Students will take courses in the fundamentals of drafting and design, basic structural steel detailing, two-dimensional and three-dimensional software/Building Information Modeling (BIM) packages, and advanced structural design and detailing.

Program Requirements

Code	Title	Credit Hours
Total Credit Hours		**18**
Discipline Core Requirements		**18 Credits**
EGDT 1020	3D Architectural Modeling	3
EGDT 1040	Fundamentals of Technical Engineering Drawing	3
EGDT 1050	Intro to 3D Printing and Fabrication PP	3
EGDT 1300	Structural Drafting and Design	3
EGDT 2300	Advanced Structural CAD	3
EGDT 2310	Structural Steel Modeling	3

Graduation Requirements

1. Completion of a minimum of 18 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours-- minimum of 5 credit hours through course attendance at UVU.

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 1040	Fundamentals of Technical Engineering Drawing	3
EGDT 1050	Intro to 3D Printing and Fabrication PP	3
	Credit Hours	**6**
Semester 2		
EGDT 1020	3D Architectural Modeling	3
EGDT 1300	Structural Drafting and Design	3
	Credit Hours	**6**
Second Year		
Semester 3		
EGDT 2300	Advanced Structural CAD	3
EGDT 2310	Structural Steel Modeling	3
	Credit Hours	**6**
	Total Credit Hours	**18**

Program Learning Outcomes

1. Demonstrate knowledge of structural steel detailing/design and the AISC Standards.
2. Create quality, industry level design drawings for the design discipline.
3. Use industry standard design software when producing design drawings.