

Surveying 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 Surveying Technology, Undergraduate Certificate offers a pathway for individuals with a bachelor's degree in related fields like Civil Engineering or Construction Management to complete coursework that meets the educational requirements for Professional Land Surveyor licensure in Utah. This program also prepares students without prior college credit for entry-level roles by developing practical skills in field and office tasks such as site and topographic surveys, boundary research, cartography, survey calculations, and legal property descriptions.

Program Requirements

Code	Title	Credit Hours
Total Credit Hours		28
Course Requirements		25
		Credits
EGDT 1040	Fundamentals of Technical Engineering Drawing	3
EGDT 1400	Surveying Applications and Field Techniques I	3
SURV 1030	Fundamentals of Geodesy and Control Surveys	3
SURV 1220	Remote Sensing and Photogrammetry	3
SURV 1340	Fundamentals of Boundary Law	4
SURV 2100	Mapping From Field to Finish	3
SURV 2310	Surveying US Public Lands	3
SURV 2320	Property Descriptions and Public Land Records	3
Elective		3
		Credits
Select one of the following recommended elective courses or one with a SURV or GIS prefix:		3
SURV 1700	Fundamentals of Surveying Exam Prep I (undefined)	
SURV 1850	Emerging Technologies in Surveying and Mapping (undefined)	
GIS 2800	Geographic Information Systems (undefined)	
SURV 2240	Fundamentals of Adjustments and Computations (3)	
SURV 2350	Ethics and Liabilities for Surveyors (3)	

Graduation Requirements

1. Completion of a minimum of 28 semester credits required for a Certificate of Completion in Surveying Technology
2. Overall grade point average 2.5 or above.
3. Residency hours: Minimum of 8 credit hours of Surveying and Mapping courses 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		Credit Hours
Semester 1		
MATH 1060 or equivalent is assumed to have been previously completed successfully.		
EGDT 1040	Fundamentals of Technical Engineering Drawing	3
EGDT 1400	Surveying Applications and Field Techniques I	3
Credit Hours		6
Semester 2		
SURV 1030	Fundamentals of Geodesy and Control Surveys	3
SURV 1220	Remote Sensing and Photogrammetry	3
SURV 1340	Fundamentals of Boundary Law	4
Credit Hours		10

Second Year**Semester 3**

SURV 2310	Surveying US Public Lands	3
SURV 2320	Property Descriptions and Public Land Records	3
Credit Hours		6

Semester 4

SURV 2100	Mapping From Field to Finish	3
Select one of the recommended elective courses listed or one with a SURV or GIS prefix:		3
Credit Hours		6
Total Credit Hours		28

Program Learning Outcomes

1. Implement the principles and practices of the professional Land Surveyor.
2. Integrate the professionals' role and responsibilities of protecting the land rights, title, and interest of the public.
3. Perform the common land surveys using professionally acceptable metrology and geodesy principles and practices.
4. Create maps using professionally acceptable drafting, design, and cartographic principles and practices.
5. Develop prudent ethical judgement and critical thinking skills in making professional decisions.

Cartographers and photogrammetrists

- Total Positions 12,900
- Field Growth 6.3%
- Median Salary \$76,210
- Average Openings 1.0

Surveyors

- Total Positions 52,600
- Field Growth 5.9%
- Median Salary \$68,540
- Average Openings 4.0

Drafters, all other

- Total Positions 18,500
- Field Growth -5.7%
- Median Salary \$59,260
- Average Openings 1.5

Surveying and mapping technicians

- Total Positions 57,400
- Field Growth 5.6%
- Median Salary \$48,940
- Average Openings 7.6