

Surveying Technology, A.A.S.

The AAS in Surveying Technology meets the minimum educational component for licensure as a Professional Land Surveyor (PLS) in the State of Utah according to the State of Utah Office of Administrative Rules 156-22-302(c)(1). This degree prepares students for immediate employment beyond entry level work in surveying or civil engineering firms. Students will be prepared to perform many of the various field and office tasks related to surveying including site and topographic surveys, boundary investigation and research, map-making, various survey adjustment calculations, writing of legal property descriptions, and other survey technician duties and responsibilities.

Matriculation Requirements

Application Submission

Full and part-time students must complete and submit the Matriculation Application to the Surveying and Mapping Program Coordinator in-person for approval before July 1st prior to the Fall semester to which the student wishes to begin taking courses in the AAS Surveying Technology degree.

80% Computer Proficiency

Complete My Educator with an exam score of 80% or higher OR complete IM 2010 Business Computer Proficiency (3.0 credit hours) with B- or higher.

Laptop Access

Must have access to their own laptop computer which can be made available during classes and which meets the minimum hardware specifications as defined by current AutoCAD® hardware specifications prior to starting courses.

Receive approval from Surveying and Mapping Program Coordinator

Program Requirements

Code	Title	Credit Hours
Total Credit Hours		63
General Education Requirements		19 Credits
ENGL 1010 or ENGH 1005	Introduction to Academic Writing CC Literacies and Composition Across Contexts CC	3
MKTG 220G	Written Business Communication GI WE	3
Complete one of the following Mathematics courses (Recommend EGDT 1600):		3
EGDT 1600	Technical Math Algebra (3)	
MATH 1050	College Algebra QL (4)	
Complete any approved Humanities, Fine Arts, or Foreign Language Distribution Course. (Recommend COMM 1020)		3
Any approved Biology or Physical Science Course (Recommend PHYS 1010)		3
Any approved Behavioral Science, Social or Political Science Distribution Course (Recommend GEOG 130G)		3
Complete for 1 credit: any approved Physical Education, Health, Safety or Environment Course (Recommend EXSC 1097)		1
Surveying Technology Foundation		35 Credits
SURV 1020	Introduction to Surveying and Mapping WE	1
EGDT 1040	Fundamentals of Technical Engineering Drawing	3
EGDT 1400	Surveying Applications and Field Techniques I	3
Complete one of the following Mathematics courses (Recommend EGDT 1610):		3
EGDT 1610	Technical Math Geometry Trig (3)	
MATH 1060	Trigonometry QL (3)	
SURV 1030	Fundamentals of Geodesy and Control Surveys	3
SURV 1220	Remote Sensing and Photogrammetry	3
SURV 1340	Fundamentals of Boundary Law	3
SURV 2100	Mapping From Field to Finish	3
SURV 2240	Fundamentals of Adjustments and Computations	2
SURV 2310	Surveying US Public Lands	3
SURV 2320	Property Descriptions and Public Land Records	3
SURV 2350	Ethics and Liabilities for Surveyors	2

GIS 2800	Geographic Information Systems	3
Surveying and Mapping Electives		9
		Credits
Elective courses must have a prefix of SURV or GIS or be approved by the Surveying and Mapping Program Coordinator		9

Graduation Requirements

1. Completion of a minimum of 63 semester credits required for AAS degree
2. Minimum overall grade point average 2.0 or above.
3. Residency hours: Minimum of 20 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

Semester 1		Credit Hours
ENGL 1010 or ENGH 1005	Introduction to Academic Writing CC or Literacies and Composition Across Contexts CC	3
Any approved Phys.Ed., Health, Safety, or Environment Course (Recommend EXSC 1097)		1
Complete one of the following Mathematics courses (Recommend EGDT 1600):		3
EGDT 1600	Technical Math Algebra	
MATH 1050	College Algebra QL	
SURV 1020	Introduction to Surveying and Mapping WE	1
COMM 1020	Public Speaking HH	3
EGDT 1040	Fundamentals of Technical Engineering Drawing	3
EGDT 1400	Surveying Applications and Field Techniques I	3
Credit Hours		17
Semester 2		Credit Hours
PHYS 1010	Elementary Physics PP	3
Complete one of the following Mathematics courses (Recommend EGDT 1610):		3
EGDT 1610	Technical Math Geometry Trig	
MATH 1060	Trigonometry QL	
SURV 1030	Fundamentals of Geodesy and Control Surveys	3
SURV 1220	Remote Sensing and Photogrammetry	3
SURV 1340	Fundamentals of Boundary Law	3
Credit Hours		15
Second Year		Credit Hours
Semester 3		Credit Hours
MKTG 220G	Written Business Communication GI WE	3
SURV 2310	Surveying US Public Lands	3
SURV 2320	Property Descriptions and Public Land Records	3
SURV 2240	Fundamentals of Adjustments and Computations	2
Elective with prefix of SURV or GIS		3
Credit Hours		14
Semester 4		Credit Hours
GEOG 130G	Survey of World Geography GI SS	3
SURV 2100	Mapping From Field to Finish	3
SURV 2350	Ethics and Liabilities for Surveyors	2
GIS 2800	Geographic Information Systems	3
Elective with prefix of SURV or GIS		3
Elective with prefix of SURV or GIS		3
Credit Hours		17
Total Credit Hours		63

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 all 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.