

Surveying and Mapping, A.S.

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Requirements

Geomatics is the study of geospatial measurement and representation including such disciplines as land surveying, photogrammetry, remote sensing (satellite imaging and laser scanning), geographic information systems (GIS), cartography, global positioning systems (GPS), and some parts of geography and civil engineering.

Geomatics is a discipline which integrates acquisition, modeling, analysis, and management of geo-spatial reference data.

Based on the scientific framework of geodesy, it uses terrestrial, marine, airborne, satellite-based sensors, and measurement systems and technologies to acquire spatial and other data.

The Land Surveying component of Geomatics includes investigation, analysis, and application of boundary/property laws and legal principles pertaining to specific public and private properties and is a regulated profession wherein a license to practice land surveying is issued by each state in an effort to protect the public and private interests in property boundaries.

Students in the Geomatics program may earn an Associate in Science in Geomatics which will help them be immediately employable as entry level surveyor GIS technician.

Students may also earn a Bachelor of Science in Geomatics which will prepare them to successfully pass the national Fundamentals of Surveying (FS) exam which is a significant step towards surveying licensure.

The bachelor degree program has been developed around four core disciplines which build on an in-depth foundation of knowledge needed for the professional practice of surveying and GIS.

Geomatics program goals are to secure ABET/ASAC accreditation by Fall Semester 2017 and to continue to encourage student interest in obtaining graduate degrees in the field of Geomatics from other nationally ranked institutions.

The program is operating under an annual cohort system starting in the fall semester of each year, so matriculation is required to ensure that each perspective student completes all required course prerequisites prior to entrance into a cohort.

Total Program Credits: 60

General Education Requirements:		35 Credits
	ENGL 1010 Introduction to Academic Writing CC	3
or	ENGL 1005 Literacies and Composition Across Contexts CC (5.0)	
	ENGL 2010 Intermediate Academic Writing CC	3
Complete one of the following:		3
	MAT 1030 Quantitative Reasoning QL (3.0)	
	MAT 1035 Quantitative Reasoning with Integrated Algebra QL (6.0)	
	STAT 1040 Introduction to Statistics QL (3.0)	
	STAT 1045 Introduction to Statistics with Algebra QL (5.0)	
	MATH 1050 College Algebra QL (4.0)	
	MATH 1055 College Algebra with Preliminaries QL (5.0)	
Complete one of the following:		3
	HIST 1700 American Civilization AS (3.0)	
	HIST 1740 US Economic History AS (3.0)	
	HIST 2700 US History to 1877 AS (3.0)	

and	HIST 2710 US History since 1877 AS (3.0)	
	POLS 1000 American Heritage SS (3.0)	
	POLS 1100 American National Government AS (3.0)	
Complete the following:		
	PHIL 2050 Ethics and Values IH	3
	HLTH 1100 Personal Health and Wellness TE (2.0)	
or	EXSC 1097 Fitness for Life TE	2
Distribution Courses:		
	Biology	3
	Physical Science	3
	Additional Biology or Physical Science	3
	Humanities	3
	Fine Arts	3
	Social/Behavioral	3
Discipline Core Requirements:		22 Credits
My Educator Exam *		
	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:		
	MATH 1060 Trigonometry QL	3
	EGDT 1600 Technical Math Algebra (3.0)	3
and	EGDT 1610 Technical Math Geometry Trig (3.0)	3
	EGDT 2400 Surveying Applications and Field Techniques II	3
	MKTG 220G Written Business Communication GI WE	3
	SURV 2310 Surveying US Public Lands (3.0)	3
	SURV 2320 Property Descriptions and Public Land Records (3.0)	3
Elective Requirements:		
Approved Surveying and Mapping elective courses can be taken with the following prefixes: SURV, GIS, EGDT, CIVE, CMGT, or MATH		3

Graduation Requirements:

1. Completion of a minimum of 60 or more semester credits.
2. Overall grade point average of 2.0 (C) or above (departments may require a higher GPA).
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Footnote
* Students will be required to complete the My Educator exam with a score of 80 percent or higher or complete the IM 2010 course with a score of 80 percent or higher.

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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](#).

Semester 1	Course Title	Credit Hours
Quantitative Literacy	Students Choice: (MAT 1030, MAT 1035, STAT 1040, STST 1045, MATH 1050, MATH 1055, MATH 1210, STAT 2040)	3
ENGL 1010	Introduction to Writing CC	3
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
MATH 1060 or EGDT 1600	Trigonometry QL or Technical Math Algebra	3
	Semester total:	16
Semester 2	Course Title	Credit Hours
ENGL 2010	Intermediate Academic Writing CC	3
ASTR 1040	Elementary Astronomy PP	3
HLTH 1100 or EXSC 1097	Personal Fitness and Wellness TE or Fitness for Life TE	2
MATH 1060 or EGDT 1610	Trigonometry QL or Technical Math Geometry Trig	3
MKTG 220G	Written Business Communication GI WE	3
	Semester total:	14
Semester 3	Course Title	Credit Hours
BOT 2050	Field Botany BB	3
PHIL 2050	Ethics and Values IH	3
SURV 2310	Surveying US Public Lands	3
SURV 2320	Property Descriptions and Public Land Records	3
EGDT 2400	Surveying Applications and Field Techniques II	3
	Semester total:	15
Semester 4	Course Title	Credit Hours
HIST 1740	US Economic History	3
COMM 1020	Public Speaking HH	2
COMM 1025		1
PHYS 1010	Elementary Physics PP	3
EGDT 1720	Architectural Rendering FF	3
Surveying and Mapping Electives		3
	Semester total:	15
	Degree total:	60