

Land Surveying/Geomatics

Associate of Science (Pattern of Study)

Graduates with an AS in Land Surveying/Geomatics will be able to:

- Proficiently apply sound measurement methods, mathematics, science, and surveying tools to collect, analyze, edit, and present spatial information in professional applications.
- Demonstrate competency in the fundamentals and applications of land surveying, and the acquisition and management of spatial data.
- Prepare graduates for the Land Surveying/Geomatics Bachelor of Applied Science program or technical geospatial employment.

SUGGESTED COURSE SEQUENCE	Credits
AS—Land Surveying/Geomatics	
FALL—1st Semester Credits	
INT 100 GBC Orientation	0.5
AST 101 General Astronomy	3
ENV 100 Humans and the Environment	3
ENG 101 Composition I	3
MATH 128 Precalculus and Trigonometry	5
TOTAL 14.5	
SPRING—2nd Semester Credits	
ART 100 Visual Foundations	3
ENG 102 Composition II	3
GIS 109 Introduction to Geographic Information Systems	3
STAT 152 Introduction to Statistics	3
PSY 101 General Psychology	3
TOTAL 15	
FALL—3rd Semester Credits	
SUR 280 Fundamentals of Geomatics I	4
PHYS 151 General Physics I or PHYS 180	4
CADD 121 CAD for Land Surveyors	3
HIST 105 European Civilization I to 1648	3
PSC 101 Introduction to American Politics*	3
TOTAL 17	
SPRING—4th Semester Credits	
GEOG 103 Physical Geography	3
MATH 181 Calculus I	4
SUR 281 Fundamentals of Geomatics II	4
SUR 290 Introduction to Urban Development	4
TOTAL 15	
Minimum Credits	61.5

I. General Education Requirements

GBC Orientation	0.5
English (ENG 101, 102 required)	6
Mathematics (MATH 126 and MATH 127 or MATH 128 (Math 128 recommended)	5-6
Science (PHYS 151 or PHYS 180 required, AST 101, ENV 100, and GEOG 103 recommended)	13
Social Science (PSC 101*, PSY 101 or ANTH 101 recommended)	6
Humanities (HIST 105 recommended)	3
Fine Arts (ART 100 recommended)	3
Technology (GIS 109 required)	3

II. Emphasis Courses

MATH 181 Calculus I	4
CADD 121 CAD for Land Surveyors	3
STAT 152 Introduction to Statistics	3
SUR 280 Fundamentals of Geomatics I	4
SUR 281 Fundamentals of Geomatics II	4
SUR 290 Introduction to Urban Development	4

*All students graduating from Nevada institutions of higher education must satisfy the U.S. and Nevada Constitutions requirement. HIST 101 & HIST 102 (6 Credits) also meet the US & NV Constitution requirement.