

Land Surveying/Geomatics

Associate of Science—Land Surveying/Geomatics (Pattern of Study)

Student Learning Outcomes

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.
- Enter the Bachelor of Applied Science in Land Surveying/Geomatics program or technical geospatial employment.

General Education	Credits
Communications and Expressions	
Written Communications	3-5
ENG 100, ENG 101	
Oral Communications.....	3
COM 113, THTR 102, THTR 221	
Evidence-Based Communications	3
ENG 102	
Fine Arts	3
ART 100, ART 101, ART 107, ENG 205, MUS 101, THTR 100, THTR 105, THTR 204	
Logical and Scientific Reasoning	
Mathematical Reasoning—STAT 152 (required).....	3
Scientific Reasoning.....	3-4
Any AST, BIOL, CHEM, ENV, GEOL, PHYS, plus ANTH 102, GEOG 103 and NUTR 121	
Scientific Data Interpretation	4
PHYS 151, PHYS 180	
Human Societies and Experience	
Structure of Societies	3
ANTH 101, CRJ 104, CRJ 270, ECON 102, ECON 103, GEOG 106, HMS 200, PSY 101, PSY 208, SOC 101	
American Constitutions and Institutions:.....	3-6
HIST 101/102 (must take both) or PSC 101	
Humanities.....	3
ART 160, ART 260, ART 261, ENG 203, ENG 223, FIS 100, FREN 111, FREN 112, HIST 208, HIST 209, HUM 101, HUM 111, HUM 210, MUS 121, MUS 125, PHIL 102, PHIL 129, SPAN 111, SPAN 112, SPAN 211	
Technological Proficiency—GIS 109 (required).....	3
Foundations	
Mathematics—MATH 181 (required)	4
Sciences.....	4
Any 4 credit lab science course in BIOL, CHEM, GEOL, PHYS (Minimum 12 total credits Science)	
Total.....	42-48

Program Requirements	Credits
CADD 121 CAD for Land Surveyors	3
*SUR 280 Fundamentals of Geomatics I	4
*SUR 281 Fundamentals of Geomatics II	4
SUR 290 Introduction to Urban Development	4
Scientific Requirement	3
Any AST, BIOL, CHEM, ENV, GEOG 103, GEOL, PHYS plus, ANTH 102 and NUTR 121	
Total.....	18
Total of all sections.....	60-66

Note: All students graduating from Nevada institutions of higher education must satisfy the American Constitutions and Institutions requirement. PSC 101 (3 credits) or HIST 101 and HIST 102 (6 credits).

*Student must provide own laboratory mentor for SUR 280 and SUR 281