

# 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.
- Prepare graduates for the Land Surveying/Geomatics Bachelor of Applied Science program or technical geospatial employment.

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

\*All students graduating from Nevada institutions of higher education must satisfy the U.S. and Nevada Constitutions requirement. Contact your academic advisor for details.

List of courses fulfilling general education requirements is on page 74.

Program Requirements	Credits
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

SUGGESTED COURSE SEQUENCE AS—Land Surveying/Geomatics		
<b>FALL—1st Semester</b>		<b>Credits</b>
INT 100		0.5
AST 101		3
ENG 100 or 101		3
ENV 100		3
MATH 128		5
<b>TOTAL</b>		<b>14.5</b>
<b>SPRING—2nd Semester</b>		<b>Credits</b>
ART 100		3
ENG 102		3
GIS 109		3
PSY 101		3
STAT 152		3
<b>TOTAL</b>		<b>15</b>
<b>FALL—3rd Semester</b>		<b>Credits</b>
CADD 121		3
HIST 105		3
PHYS 151		4
PSC 101		3
SUR 280		4
<b>TOTAL</b>		<b>17</b>
<b>SPRING—4th Semester</b>		<b>Credits</b>
GEOG 103		3
MATH 181		4
SUR 281		4
SUR 290		4
<b>TOTAL</b>		<b>15</b>
<b>Refer to page 80.</b>		<b>Minimum Credits: 61.5</b>

After the AS in Land Surveying/Geomatics, the next step could be the Bachelor of Applied Science in Land Surveying/Geomatics. See page 178.