

SURVEYING AND GEOMATICS - ASSOCIATE IN SCIENCE

Evergreen Valley College offers the only Surveying and Geomatics program in the South Bay area. The program trains students with the necessary skills to become a land surveyor. It provides students with the formal theoretical and laboratory course work necessary to prepare for the Land Surveyors-In-Training Examination and the Professional Land Surveyors Examination. It also provides coursework for those planning to transfer to a four-year Surveying or Geomatics Engineering program. The program provides students with three options: an Associate in Science degree, an Associate in Arts degree and a Certificate of Achievement. A grade of "C" or better in each major course and major elective course is required for this degree.

Program Learning Outcomes

- Create engineering graphics and surveying maps.
- Design and conduct surveys using various tools including GPS and GIS.
- Incorporate maps, the subdivision map act, and the land surveying act to produce standard and legal surveys.
- Use the California coordinate system and boundary control and legal principles in surveys.

Major Requirements

Course	Title	Units
CADD 130	Fundamentals of AutoCAD	3
or ENGR 018	Engineering Design and Graphics	
ENGR 060	Surveying	3
ENGR 061	Plane Surveying	3
ENGR 063	GIS for Civil Engineering and Surveying	3
SG 100	Applied Math for Land Surveying ¹	1
SG 141	Boundary Control and Legal Principles	3
SG 142	California Coordinate System	1
SG 143	Introduction to Photogrammetry	1
SG 145	Astronomy for Surveyors	1
SG 146	CADD for Civil Engineering, Surveying and Land Development	3
SG 147	Global Positioning System for Land Surveying	3
SG 148	Maps, Subdivision Map Act and Land Surveyors Act	3
SG 149	3D Laser Scanning for Land Surveying	3

¹ MATH 022 also satisfies this requirement.

Major Electives

Course	Title	Units
Select 5 units from the following:		5
ENGR 010	Engineering Processes and Tools	
LA 071	Legal Research	
BUS 065	Concepts of Management	
BUS 082	Introduction to Business	

Total Requirements

Course	Title	Units
Major Requirements		31
Major Electives		5
General Education Requirements		24
Total Units		60