

# Land Surveying - Certificate of Achievement

+If you have completed coursework at another college and/or are starting in a semester other than a Fall term, please follow up with the Counseling Department to determine if this sequence is appropriate for your academic and career goals.

## Program Description:

The focus of the Land Surveying program is to provide the student with a thorough background in land surveying and mapping in addition to an introduction to the collecting, manipulating, formatting and mapping of geospatial data. A student who successfully completes the program will have the technical expertise necessary for an entry level position in the field of Land Surveying or related fields of geographic information systems specialists, architectural services, and engineering services. Land Surveyors typically measure and record property boundaries and the topography of the land covered by construction and engineering projects. Surveys are used to establish legal boundaries to prepare maps and exhibits, and write descriptions of land tracts that satisfy legal requirements. The program also assists students in preparing for the Fundamentals of Surveying Exam (formerly the Land Surveyor In-Training or LSIT exam) and the Professional Land Surveyor Exam issued by the State of California.

## Program SLO:

Demonstrate proficiency in the core skills and knowledge required for employment in land surveying.

**Important Information:** For students interested in earning an Associate's degree and/or transfer, please follow up with the Counseling Office for additional information @ <https://www.canyons.edu/counseling> or (661)362-3288/(661)362-3811.

Major courses are sequenced and **BOLDED** based on recommendations by the [Land Surveying Department](#).

FA = Fall; WI = Winter; SP = Spring; SU = Summer

First Semester		(3-11 units minimum)	
Course	Title	Units	Major Courses
<b>SURV 101</b>	<b>Introduction to Land Surveying (FA, SP)</b>	4	<b>Major</b>
<b>Math 102 OR Math 102X</b>	<b>Trigonometry (FA, WI, SP, SU) Trigonometry &amp; Support for Trigonometry (FA, SP)</b>	4 5	<b>Major</b>
<b>SURV 110</b>	<b>CAD for Surveyors (FA, SP, SU)</b>	3	<b>Major</b>
		<b>Term Totals:</b>	<b>11-12</b>

\*Consult with a counselor for assistance in regards to which math course to enroll in based on placement results

Second Semester		(12 -18 units minimum)	
Course	Title	Units	Major
<b>GIS 101</b>	<b>Introduction to Geographic Information Systems (SP)</b>	3	<b>Major</b>
<b>SURV 102</b>	<b>Advanced Land Surveying (SP, SU)</b>	4	<b>Major</b>
		<b>Term Totals:</b>	<b>7</b>

Third Semester		(19 -27 units minimum)	
Course	Title	Units	Major
<b>SURV 103</b>	<b>Advanced Applications in Land Surveying I (FA - 1<sup>st</sup> 8 weeks)</b>	3	<b>Major</b>
<b>SURV 104</b>	<b>Advanced Applications in Land Surveying II (FA -2<sup>nd</sup> 8 weeks)</b>	3	<b>Major</b>
<b>SURV 260</b>	<b>Boundary Control and Legal Principles I (FA)</b>	3	<b>Major</b>

	<i>Term Totals:</i>	<b>9</b>	
<b>Fourth Semester</b>	<b>(28 -34 units minimum)</b>		
<b>Course</b>	<b>Title</b>	<b>Units</b>	<b>Major</b>
<b>SURV 265</b>	<b>Boundary Control and Legal Principles II (SP)</b>	<b>3</b>	<b>Major</b>
<b>SURV 107</b>	<b>Construction Surveying (SP)</b>	<b>4</b>	<b>Major</b>
	<i>Term Totals:</i>	<b>7</b>	

**Total Units: 34 - 35**

### **Counseling Resources**

Land Surveying Department Website: [www.canyons.edu/surv](http://www.canyons.edu/surv)

Counseling Department: <https://www.canyons.edu/student-services/counseling/index.php>

Petition for Certificate of Achievement: Petitions are due in the fall/spring/summer term you will complete the requirements and may be submitted before your last term or up until the final day of the term. The petition form must be reviewed with a counselor and may be found here:

[https://www.canyons.edu/\\_resources/documents/student-services/admissions/Petition\\_for\\_Associate\\_Degree\\_and\\_Certificate\\_of\\_Achievement.pdf](https://www.canyons.edu/_resources/documents/student-services/admissions/Petition_for_Associate_Degree_and_Certificate_of_Achievement.pdf)

### **Career Resources**

Land Surveying Career Tree: <https://www.canyons.edu/academics/surveying/careertree/index.php>

California Board for Professional Engineers, Land Surveyors, and Geologists - <https://www.bpelsg.ca.gov/>

Land Surveying at College of the Canyons LinkedIn Group-<https://www.linkedin.com/groups/13551034/>

California Career Zone – Surveyors: <https://www.cacareerzone.org/profile/17-1022.00>

O\*Net Online -Surveyors: <https://www.onetonline.org/link/summary/17-1022.00>

Bureau of Labor and Statistics - Surveyors: <https://www.bls.gov/ooh/architecture-and-engineering/surveyors.htm>

Professional Associations: <https://www.canyons.edu/academics/surveying/information/links.php>