Land Surveying Associate Degree and Certificate of Achievement

This curriculum, with additional general education coursework, also fulfills the major requirements for the Land Surveying Associate in Science degree.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURV 101</td>
<td>Introduction to Land Surveying</td>
<td>4</td>
</tr>
<tr>
<td>SURV 102</td>
<td>Advanced Land Surveying</td>
<td>4</td>
</tr>
<tr>
<td>SURV 103</td>
<td>Advanced Applications in Surveying I</td>
<td>3</td>
</tr>
<tr>
<td>SURV 104</td>
<td>Advanced Applications in Surveying II</td>
<td>3</td>
</tr>
<tr>
<td>SURV 105</td>
<td>Boundary Control and Legal Principles I</td>
<td>3</td>
</tr>
<tr>
<td>SURV 106</td>
<td>Boundary Control and Legal Principles II</td>
<td>3</td>
</tr>
<tr>
<td>SURV 107</td>
<td>Construction Surveying</td>
<td>4</td>
</tr>
<tr>
<td>SURV 110</td>
<td>Computer-Aided Drafting for Surveyors</td>
<td>3</td>
</tr>
<tr>
<td>GIS 101</td>
<td>Introduction to Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 102</td>
<td>Trigonometry</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 33

Curriculum changes in response to new technologies and evolving industry standards. Please refer to the counseling website, as requirements may have changed since the printing of this publication, www.canyons.edu/counseling/certificate.asp

For more information about Land Surveying as a career:
California Land Surveyors Association
www.californiasurveyors.org

California Department of Consumer Affairs, Board for Professional Engineers and Land Surveyors
www.dca.ca.gov/pels

How do I get more information about wages for this program?
California Occupational Guides
www.labormarketinfo.edd.ca.gov/occupies
For California wages, enter “Surveyors” in the “Keyword Search”

*O*NET Online: www.onetonline.org
For national and state data, enter “Surveyors” in the Occupation Quick Search

For more information about this program
Contact Regina Blasberg, Department Chair
regina.blasberg@canyons.edu or 661-362-5096

Career Technical Education Programs

REAL JOBS
NEED REAL SKILLS!
Choose Land Surveying if you...

• Crave a career combining high technology with an out-of-doors working environment.
• Challenge yourself physically and mentally.
• Quickly grasp mathematical concepts.
• Embrace science and technology.

Surveying offers rewarding career options:

• Land Surveyor Technician
  Primary responsibilities include:
  – Operating electronic distance-measuring instruments and GPS receivers.
  – Compiling notes, sketches, and records of measurement data.
  – Drawing maps, preparing reports and performing computations for completed site surveys.

• Licensed Professional Land Surveyor
  Primary responsibilities include:
  – Planning surveys and directing survey teams.
  – Interpreting and checking GPS results.
  – Writing descriptions of land for deeds, leases and other legal documents.
  – Researching legal records for evidence of previous boundaries.
  – Preparing survey and subdivision maps.

How can College of the Canyons help me become a surveyor?

The college’s Land Surveying program provides students with the tools and skills needed to be successful in an entry-level surveying position. Students can obtain either an Associate in Science or a Certificate of Achievement in Land Surveying. These skills can lead to a rewarding career with either a public or private agency in a wide range of fields including geographic information systems, mapping, construction surveying, aerial surveying and general surveying.

What is a Land Surveyor?

A Land Surveyor measures and records property boundaries and the topography of the land covered by construction and engineering projects. This measurement and the recorded data are called a “survey”. Surveys are used to establish legal boundaries, prepare maps and exhibits, and are the basis for written descriptions of land tracts that satisfy legal requirements. Without surveyors, railroads and highways could not be built, large buildings could not be erected, and homeowners could not put up fences around their yards, for fear of trespassing on someone else’s land.

Surveyors work to set land values, subdivide land into lots and stake development sites. Surveyors also measure and chart the depths and expansions of underground areas, the ocean floor, the atmosphere and outer space. Surveyors use mathematical reasoning ability to visualize objects, measure distances, sizes and other abstract forms.