



**Santiago Canyon College**  
8045 E. Chapman Avenue  
Orange, California 92869  
(714) 628-4883

# Survey/Mapping and Project Management

[www.sccollege.edu/survey](http://www.sccollege.edu/survey)  
[www.sccollege.edu/project](http://www.sccollege.edu/project)

## SPRING 2012 CLASSES

Survey/Mapping Sciences 118 and 119 are excellent preparation for those planning to take the State's LSIT (Land Surveyor-in-Training) or the LS (Land Surveyor) Exams. Spring classes meet January 23–May 20, unless otherwise stated.

### Plane Surveying – SURV 118

History and careers in surveying. Introduction to survey measurements, distance, direction and elevations. Traverse computations and adjustment. Recording field measurements. Preparation for passing the land surveyor-in-training exam. Prior completion of Math 160 strongly recommended.

**4 units**

Instructor: Ed Capalaran  
**Tuesdays, 7:15 to 10:25 pm AND  
six Saturday field labs 8:00 am to 4:30 pm**  
Section #54017

### Introduction to Geographic Information Systems – SURV 150

Students will become skilled in the use of ESRI ArcView® geographic information systems while learning to manipulate and present project related data. Recommended preparation is familiarity with PC and Windows operating environment.

**3 units**

Instructor: Staff  
**Wednesdays, 7:15 to 10:25 pm**  
Section #54018

### Advanced Computer Aided Drafting for Surveyors – SURV 206

Introduction to data collection and processing, coordinate geometry, and the generation of digital terrain models using survey design software. Specifically intended for students with land surveying training or experience. Prior completion of Survey/Mapping Sciences 119, 205 recommended.

**3 units**

Instructor: Greg Sebourn  
**Thursdays, 7:15 to 10:25 pm**  
Section #54023

### Advanced Problems in Surveying II – SURV 222

Introduction to photogrammetry emphasizing concepts and calculations. Route surveying includes horizontal and vertical curves, volume calculations and construction staking. Prior completion of Survey/Mapping Sciences 119, Mathematics 160 recommended.

**3 units**

Instructor: Jeremy Evans  
**Mondays, 7:15 to 10:25 pm**  
Section #54031

### Legal Aspects of Land Surveying II – SURV 230

Principals and techniques of boundary control, interpretation of land descriptions, voluntary and involuntary transfer of property, senior rights, simultaneous conveyances, sequential conveyances, and case law pertaining to boundary disputes. Prior completion of Survey/Mapping Sciences 229 recommended.

**3 units**

Instructor: Tom Propst  
**Thursdays, 7:15 to 10:25 pm**  
Section #54037

### Principles of Project Management – BUS 090/PBLC 080

Utilizing project planning tools and techniques learn how to define, plan, execute and deliver projects of all types and sizes. Emphasizing practical application using case studies to organize, schedule and manage projects effectively.

**3 units**

Instructor: Barry McCarthy  
**Thursdays, 7:15 to 10:25 pm**  
Section #54412

### Project Management: Microsoft Project® – PBLC 082

Microsoft Project® software is used to plan, track, monitor and evaluate project deliverables to completion, within budget and on-time. Find exceptions, analyze and solve typical project and business problems.

**1 unit**

Instructor: Stuart Davis  
**Thursdays, 5:00 to 7:05 pm**  
Section #54415  
(8 weeks) Mar 29–May 17

Spring classes begin the week of January 23, 2012. New students need to first apply to the college online at [www.sccollege.edu](http://www.sccollege.edu). Students will be assigned a registration date via email. You may register online. Students are encouraged to register early. Classes fill up quickly. Currently, the cost for California residents is \$36 per unit (plus parking, health/student fees and texts). Enrollment fees must be paid in full within three days of registration or student will be dropped.

## Survey/Mapping Sciences – Land Surveying Degree and Certificate of Achievement

The associate degree and certificate program in Survey/Mapping provides the student a thorough background in land surveying and mapping in addition to an introduction to collection, manipulation, formatting and mapping of geospatial data. The successful graduate of this program will have the technical expertise necessary for an entry level position in the fields of Geographic Information Systems, Land Surveying, and Digital Photogrammetry. The program also assists those students preparing for the State Land Surveyor-In-Training and Land Surveyor's Exams. The State Board of Registration for Professional Engineers and Land Surveyors will grant one year of experience credit for students completing an Associate Degree in Survey/Mapping Sciences.

Major requirements for the associate degree and requirements for the certificate of achievement:

<u>Courses</u>	<u>Units</u>
118, Plane Surveying	4
119, Advanced Plane Surveying	4
205, Computer Aided Drafting Fundamentals for Land Surveyors	
OR	3
206, Advanced Computer Aided Drafting for Surveyors	
221, Advanced Problems in Surveying I	3
222, Advanced Problems in Surveying II	3
229, Legal Aspects of Land Surveying I	3
230, Legal Aspects of Land Surveying II	3
Public Works 080, Principles of Project Management	<u>3</u>
	Total 26

## Survey/Mapping Sciences – Land Surveying Technician Certificate

This certificate will introduce the student to the world of surveying and mapping. They will study the art and science of making, recording and mapping measurements using a variety of equipment and software. The student will also learn the fundamentals of Computer Aided Design (CAD) and gain knowledge in boundary determination and writing land descriptions. The successful graduate of this program will have the technical expertise necessary for an entry-level position with a land survey organization. In addition, the student will be ready (after meeting the necessary employment requirements) to take the State Land-Surveyor-in-Training examination.

Requirements for the certificate:

<u>Courses</u>	<u>Units</u>
118, Plane Surveying	4
119, Advanced Plane Surveying	4
205, Computer Aided Drafting Fundamentals for Land Surveyors	
OR	3
206, Advanced Computer Aided Drafting for Surveyors	
229, Legal Aspects of Land Surveying I	3
230, Legal Aspects of Land Surveying II	<u>3</u>
	Total 17

- For Program Questions: call the BCTE division office (714) 628-4883
- For College Transfer Questions: call Counseling (714) 628-4800
- Registration Questions: call SCC Admissions & Records (714) 628-4901