

# SURVEYING (SURV)

---

## **SURV-127**

### **Survey Drafting Technology**

**3 UNITS**

Prerequisite: "C" grade or higher or "Pass" in CADD 120 or equivalent

2.0 hours lecture, 4.0 hours laboratory

Professional Civil Engineering/Surveyor's office method drafting course that applies the basic skills and techniques acquired in CADD 115.

Land surveying, land development procedures, legal descriptions, topographical analysis, earthworks, geographic control and subdivision processes will be covered. Also listed as CADD 127. Not open to students with credit in CADD 127. (CSU)

## **SURV-218**

### **Plane Surveying**

**4 UNITS**

Prerequisite: "C" grade or higher or "Pass" in MATH 170 or MATH 176, or equivalent or concurrent enrollment

2.0 hours lecture, 6.0 hours laboratory

Use, care and adjustment of surveying instruments. Fundamental surveying methods, traverse measurements, and area computations. Introduction to horizontal and vertical curves, stadia, and construction layout. Introduction to topographic mapping. Earth work computations. Also listed as ENGR 218. Not open to students with credit in ENGR 218. (CSU, UC)

## **SURV-220**

### **Boundary Control and Legal Principles**

**3 UNITS**

Prerequisite: "C" grade or higher or "Pass" in SURV/ENGR 218 or equivalent

3.0 hours lecture

Legal and professional aspects of surveying such as U.S. public land surveys, property surveys, title search, report laws affecting a surveyor, resurveys or surveys based on the deed or record, and the new divisions of land. (CSU)

## **SURV-240**

### **Advanced Surveying**

**4 UNITS**

Prerequisite: "C" grade or higher or "Pass" in SURV/ENGR 218 or equivalent

3.0 hours lecture, 3.0 hours laboratory

Topographic, hydrographic and geodetic surveying. Precise equipment and control surveying, city and land surveys. Astronomical observations. State plane coordinates system. Route location and layout, transition, horizontal and vertical curves. Introduction to electronic and photogrammetric methods. U.S. Public Land Surveys and legal descriptions, and an introduction to Global Positioning Systems (G.P.S.). (CSU, UC)