

# SURVEYING (SRVY)

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## SRVY 1301

### Introduction To Surveying

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0

This course is an overview of the surveying profession. The history of surveying and its impact on the world. Review of the mathematics used in surveying. Introduction to basic surveying equipment with emphasis on measurements. Instruction on surveying procedures and the limitation of errors. Calculation to determine precision and error of closure.

*Prerequisite:* None.

## SRVY 1335

### Land Surveying Applications

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0

This course covers a structured experience with the equipment, techniques, and hardware necessary to measure horizontal and vertical angles and distances used in surveying.

*Prerequisite:* Completion of or concurrent enrollment in SRVY 1341.

## SRVY 1341

### Land Surveying

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0

This course is a study of the measurement and determination of boundaries, areas, shapes, location through traversing techniques. Instruction in a variety of adjustment methods using calculators and computers. Addresses methods of traversing and adjustment of errors according to prevailing professional standards.

*Prerequisite:* SRVY 2343.

## SRVY 1380

### Cooperative Education - Survey Technology/Surveying

CRT HRS:3 LEC HRS:1 LAB HRS:0 OTH HRS:20

This is a course with career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and the student. Under supervision of the college and the employer, the student combines classroom learning with work experience. This course includes a lecture component.

*Prerequisite:* Completion of or concurrent enrollment in SRVY 2335.

## SRVY 1413

### Plane Surveying

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course is an introductory overview of surveying equipment and measurement techniques used in mapping. Emphasis will be placed on leveling and traversing for preparing a map.

*Prerequisite:* DFTG 1409.

## SRVY 2309

### Computer Aided Mapping

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0

This course is a production of survey maps using appropriate computer aided drafting software. Includes plats, civil engineering design drawings and topographic maps.

*Prerequisite:* DFTG 1409.

## SRVY 2331

### Geodetic Surveying And Mapping

CRT HRS:3 LEC HRS:2 LAB HRS:2 OTH HRS:0

This course is a study of field astronomy, Polaris and solar observations, State Plane Coordinate Systems, and Global Positioning System.

*Prerequisite:* GISC 1311 and concurrent enrollment in SRVY 2335.

## SRVY 2335

### Geodetic Surveying And Mapping Application

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0

This course covers emphasis on the field techniques of making astronomic observations, recovering control monuments, setting control monuments, and the planning and use of Global Positioning System receivers in data collection.

*Prerequisite:* Completion of or concurrent enrollment in SRVY 2331.

## SRVY 2339

### Engineering Design Surveying

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0

This course is a study of the theory and field methods of surveying alignments, to include highway routes, pipelines, utility and waterway construction, transmission lines and site stakeout, including the study of horizontal curves, vertical curves, areas, and earthwork volumes.

*Prerequisite:* SRVY 2309 and concurrent enrollment in SRVY 2341.

## SRVY 2341

### Engineering Design Surveying Lab

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0

This course is the companion lab for Engineering Design Surveying. Emphasis on field methods of surveying alignments.

*Prerequisite:* Completion of or concurrent enrollment in SRVY 2339.

## SRVY 2343

### Surveying - Legal Principles I

CRT HRS:3 LEC HRS:3 LAB HRS:0 OTH HRS:0

This course covers the study of location, conveyance, ownership and transfer of real property under the laws of the State of Texas. Emphasis on the history of disposition of public land, interpreting written descriptions, dignity of calls and evidence, and record search of public and private land records.

*Prerequisite:* Completion of or concurrent enrollment in SRVY 1301.

## SRVY 2344

### Surveying - Legal Principles II

CRT HRS:3 LEC HRS:3 LAB HRS:0 OTH HRS:0

This is an advanced course in legal principles, retracement and boundary location with application of legal principles and Rules of Construction; writing survey reports and property descriptions; and a review of boundary law cases.

*Prerequisite:* SRVY 2343.