Course Information Form (CIF)

Course Code: SRV 254
Course Title: Boundary Surveying

Department: Applied Sciences and Technologies
PCS Code: 1.2 - Occupational/Technical Instruction
CIP Code: 15.1102
Repeatability: 0

Effective Date: Summer 2026

Credit Hours

Catalog Notation: 2-3-3
Credit Hour Distribution:

Lecture: 2	Lab: 3	Clinical: 0	**Total: 3**

General Course Information

Catalog Description

Survey field methods and theory of boundary surveying including the United States Public Land Survey System, original and retracement surveys, basic survey law, legal descriptions, field monument search and related computations; restoration of lost corners.

General Course Objectives

Students will perform basic land boundary surveying field practices and computational processes.

Minimum Placement Levels

English	Reading	Math
None	None	Placement out of MAT 072 or credit in MAT 131 with a grade of C or higher

Prerequisites

None

Methods of Evaluation

Students will be given a minimum of 1 objective exam, 7 homework assignments, and 3 lab exercises.

Instructional Materials and Additional Supplies

Evidence and Procedures for Boundary Location, 978-1119719397
Definitions of Surveying and Associated Terms, Author: American Congress on Surveying and Mapping
Spiral-bound field book
Scientific calculator, Casio fx-115MS or equivalent
Mechanical pencil, 0.5 mm lead recommended
Straight edge

Course Content

General Learning Outcomes (GLOs)

- Reasoning and Inquiry: Students will demonstrate the ability to solve problems using deductive reasoning and logic, quantitative reasoning, or the scientific method.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
History and Development of the United States Rectangular System	1. Summarize milestones in survey development and describe the impact of those milestones on modern practices.	2	1	0
Boundary and Retracement Surveys	1. Compare and contrast boundary and retracement surveys. 2. Perform basic boundary and retracement survey field measurements and preliminary analysis.	4	16	0
Basic Survey Law	1. Identify and explain basic legal principles of land surveying practice and real property transfer.	3	1	0
Legal Descriptions	1. Compose and interpret legal descriptions of land.	5	5	0
Field Monument Search	1. Identify different types of property corner monumentation and their proper legal treatment. 2. Search for and recover property corner monuments.	4	7	0
Related Computations	1. Calculate and analyze boundary and retracement survey measurements.	6	10	0
Restoration of Lost Corners	1. Compose and interpret legal descriptions of land. 2. Explain appropriate use of differing land description systems. 3. Investigate boundary evidence in context of applicable boundary law.	6	5	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
30	45	0