

# SVR 150 - CONSTRUCTION SURVEY APP

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## Course Description

Students perform design surveys and conduct construction layout for infrastructure. Major topics include using horizontal and vertical control, establishing alignment, obtaining topographic information, determining grades, horizontal and vertical curves, completion of construction plans, computation of earthwork quantities, and field stakeout. Students will use this knowledge in both field and office environments. Group 2 course.

## Credit Hours

5

## Contact Hours

8

## Lecture Hours

2

## Lab Hours

6

## Required Prerequisites

SVR 110, SVR 120

## Corequisites

MTH 121

## Course Learning Outcomes

### Knowledge:

- Demonstrate competency in conducting a design survey and construction layout.

### Application:

- Collect data in order to prepare construction plans and perform layouts.

### Integration:

- Integrate data collection, mathematical calculations, CAD and the physical layout of infrastructure.

### Human Dimension:

- Coordinate with teammates to complete course projects.

### Caring - Civic Learning:

- Examine the importance the surveyor's role in establishing and maintaining vital infrastructure.

### Learning How to Learn:

- Construct a portfolio that documents each phase of the survey process.