

## COURSE DESCRIPTIONS BY COURSE DISCIPLINE PREFIX

### SRV SURVEYING

**SRV-110      Surveying I      4 (2-6)    Summer**

**Prerequisites:** ARC-111<sup>L</sup> or EGR-115<sup>L</sup>

**Corequisites:** MAT-003<sup>S</sup>, BSP-4003<sup>S</sup>, MAT-121<sup>S</sup>, or MAT-171<sup>S</sup>

This course introduces the theory and practice of plane surveying. Topics include the precise measurement of distances, angles, and elevations bearing, azimuth and traverse computations topography and mapping. Upon completion, students should be able to use/care for surveying equipment, collect field survey data, perform traverse computations and create a contour map.(2020 FA)

**SRV-111      Surveying II      4 (2-6)    Fall**

**Prerequisites:** SRV-110<sup>S</sup>

**Corequisites:** None

This course introduces route surveying and roadway planning and layout. Topics include simple, compound, reverse, spiral, and vertical curves geometric design and layout planning of cross-section and grade line drainage earthwork calculations and mass diagrams. Upon completion, students should be able to calculate and lay out highway curves prepare roadway plans, profiles, and sections and perform slope staking.(1997 SU)

**SRV-210      Surveying III      4 (2-6)    Spring**

**Prerequisites:** SRV-110<sup>S</sup>

**Corequisites:** None

This course introduces boundary surveying, land partitioning, and calculations of areas. Topics include advanced traverses and adjustments, preparation of survey documents, and other related topics. Upon completion, students should be able to research, survey, and map a boundary.(1997 SU)

**SRV-220      Surveying Law      3 (2-2)    Fall**

**Prerequisites:** SRV-110<sup>S</sup>

**Corequisites:** None

This course introduces the law as related to the practice of surveying. Topics include surveyors' responsibilities, deed descriptions, title searches, eminent domain, easements, weight of evidence, riparian rights, and other related topics. Upon completion, students should be able to identify and apply the basic legal aspects associated with the practice of land surveying.(1997 SU)

**SRV-240      Topo/Site Surveying      4 (2-6)    Spring**

**Prerequisites:** SRV-110<sup>S</sup>

**Corequisites:** None

This course covers topographic, site, and construction surveying. Topics include topographic mapping, earthwork, site planning, construction staking, and other related topics. Upon completion, students should be able to prepare topographic maps and site plans and locate and stake out construction projects.(1997 SU)