SRVY - Surveying

SRVY 230. Intro to Surveying for Engineers, 3 Credits. (2 Lec, 1 Lab) F,S,Su
PREREQUISITE: M 165Q or M 171Q or M 181Q. Basic surveying measurements and computations for engineering project control, mapping, and construction layout; theory of observational errors and error propagation; fundamental concepts of horizontal and vertical control systems; use of topographic maps and plan-profile sheets; computation of horizontal and vertical curves; introduction to UAV and LiDAR use; USPLS and GIS introduction; introduction to computer tools used in Civil Engineering.

SRVY 273. Route Surveying, 3 Credits. (2 Lec, 1 Lab) S
PREREQUISITE: SRVY 230. Route surveys, construction surveys, and earthwork calculations.

SRVY 355. Surveying Calculations, 3 Credits. (2 Lec, 1 Lab) S
Alternate Even Years PREREQUISITE: SRVY 230. Modern instrumental and computational techniques in surveying including least squares analysis, geodesy, state plane coordinates, and the global positioning system.

SRVY 361. Intro Legal Princ in Surveying, 3 Credits. (3 Lec) F

SRVY 362. Public Land Survey System, 3 Credits. (3 Lec) F
Alternate Odd Years PREREQUISITE: SRVY 230. Federal and state laws and regulations governing legal land surveying; case studies and professional responsibilities.

SRVY 375. Analytic Photogrammetry and Remote Sensing, 3 Credits. (2 Lec, 1 Lab) F
Alternate Odd Years. PREREQUISITE: M 165Q or M 171Q or M 181Q. Measurement and computation techniques for mapping from photographs; photo geometry, flight planning, ground control, cameras, control extension, stereoscopic instruments, UAV use in photogrammetry.

SRVY 474. Project Design in Surveying, 3 Credits. (2 Lec, 1 Lab) S
Alternate Odd Years PREREQUISITE: SRVY 230. COREQUISITE: DDSN 245. Surveying requirements of large project; land subdivision, utilities, topography, and earthwork. Term project research and report required.
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.