SUR-SURVEYING (SUR)

SUR 101. Introduction to Surveying Engineering
1 Credit
Review and discussion of career paths open to surveying engineers. Restricted to: Main campus only.

SUR 201. GPS and Spatial Data Applications
3 Credits
Overview of spatial data applications based on GPS observations. Emphasis on positioning and navigation using code-phase techniques with handheld receivers. Use of coordinate systems. Students encouraged to have their own GPS handheld unit.

SUR 222. Plane Surveying
3 Credits (2+3P)
Theory and practice of geomatics as applied to plane surveying in the areas of linear measurements, angle measurements, area determination, differential and trigonometric leveling, and topographic mapping. May be repeated up to 3 credits. Crosslisted with: DRFT 222.
Prerequisite(s): MATH 190G.

SUR 264. Introduction to LIS
3 Credits (2+3P)
Introduction to land information systems. Land tenure systems, coordinate systems, computer methods. Pre/Corequisite(s): DRFT 109.

SUR 285. Precise Digital Mapping
3 Credits
Perform basic photogrammetric mapping, and create digital terrain models. May be repeated up to 3 credits.
Prerequisite(s)/Corequisite(s): SUR 222 or DRFT 222.

SUR 292. Public Land Survey System Boundaries
3 Credits (2+3P)
Detailed study of the U.S. Public Land Survey System Instructions with special emphasis on New Mexico. Sectionalized land subdivision, corner restoration, and field surveys. Field trips required.
Prerequisite: SUR 222.