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# COURSES

**SUR 215 SURVEYING I****2 Lecture Hours 3 Lab Hours 3 Credit Hours**

This course is an introduction to the field of surveying. Students will learn what surveying encompasses and what further course of study is required to become licensed as a Professional Land Surveyor. Students will learn how to use modern land surveying equipment such as automatic levels, total station theodolites, and GPS (Global Positioning Systems). Students will learn how the use of field equipment information is integrated into the production of topographic maps. During this entire process, students will be introduced to the standards of map making and the fundamentals of land surveying. There is no prerequisite, but student should have basic knowledge of algebra, geometry and trigonometry functions. This course is cross-listed and may be taken as either SUR 215 or ENR 215.

**SUR 216 SURVEYING II****2 Lecture Hours 3 Lab Hours 3 Credit Hours**

This course is a continuation of Surveying I. The student will gain additional experience in the use of modern surveying equipment and how the data collected is processed into maps. The student will also be introduced to the fundamentals of land surveying as applied to the process of preparing a construction survey used for design purposes. The student will learn and be required to work within national mapping standards at all times. This course is cross-listed and may be taken as either ENR 216 or SUR 216. Prerequisite(s): Successful completion of SUR/ENR 215 and co- or prerequisite of ARC 104.