SURVEYING AND MAPPING
(2980)

2980:100 Introduction to Geomatics (2 Credits)
An introductory course into the field of surveying and mapping technology. Integrated topics include: types of surveys, cartography, and geographic information systems.

2980:101 Basic Surveying (3 Credits)
Corequisite: 2030:153. Care and use of basic surveying field instruments and the basic computations and adjustments necessary to post process the field survey measurements. Field Practice.

2980:102 Topographic Surveying (2 Credits)

2980:122 Elementary Surveying (3 Credits)
Elementary surveying for non-surveying and construction majors. Basic tools and computations. Field practice.

2980:123 Surveying Field Practice (2 Credits)
Prerequisite: 2980:102 or equivalent. Practical experience in use of surveying equipment and methods of surveying. Provides students with responsibility for making decisions and planning and directing complete project.

2980:155 Computer Applications in Surveying (3 Credits)
Use of current surveying software to solve typical problems/projects in surveying technology.

2980:170 Surveying Drafting (3 Credits)
Corequisite: 2030:152 or permission. Drafting procedures, techniques, and tools required for the various phases of survey office work. Projects include topographic maps, plan and profile drawings, and cross-section drawings. Laboratory.

2980:222 Construction Surveying (3 Credits)

2980:223 Geospatial Technologies (3 Credits)
Introduction to current and emerging geospatial technologies, such as Geographic Information Systems, remote sensing and global positioning systems, and exploring mapping data sources. Laboratory required.

2980:225 Advanced Surveying (3 Credits)
Prerequisite: 2980:228. Introduction to topographic mapping, flood maps, and ALTA surveys. Advanced topics in control surveys, State Plane Coordinates, and bearings from celestial observations. Field practice.

2980:228 Boundary Surveying (3 Credits)
Prerequisite: 2980:101 or equivalent. Analysis of evidence and procedures for boundary location; establishing and/or locating points for boundary and mortgage location surveys; plat preparation. Ohio survey minimum standards.

2980:251 CST Seminar (1 Credit)
Prerequisite: 2980:222. Prepares students for the National Society of Professional Surveyors Certified Surveying Technician (CST) Level I Examination. Examination is given at the end of the review sessions.
2980:428 History of Surveying Since 1785 (2 Credits)
A history of land surveying. Emphasis on the development of survey procedures through history. Part II (Since 1785) covers the history of the United States to date.

2980:430 Surveying Project (3 Credits)
Prerequisite: Senior or greater standing and permission. Provides opportunity to research and develop a specific surveying project within chosen area of surveying. Oral, written and graphical presentation of completed project(s).

2980:431 Senior Seminar (2 Credits)
Prerequisite: Senior or greater standing. Students demonstrate knowledge and skills acquired as surveying majors through assessment testing and review of professional licensure laws. Preparation for national exams.

2980:445 Applications in GIS using GPS (3 Credits)
Prerequisite: 2985:101. Advanced instruction in GIS applications using GPS as well as other surveying and mapping methods. Laboratory.

2980:450 Topics in Professional Practice (2 Credits)
Prerequisite: Junior or greater standing. Topics in application areas of surveying from the point of view of the practitioner and the consumer of land-related data.

2980:489 Special Topics in Surveying (1-3 Credits)
Prerequisite: Permission. Special lecture/laboratory courses offered once or only occasionally in areas where no formal course exists. (May be repeated for a maximum of six credits.)

2980:490 Workshop in Surveying (1-3 Credits)
Prerequisite: Permission. Group study of special topics in surveying. May not be used to meet undergraduate major requirements in surveying. May be used for elective credit only. (May be repeated for a maximum of six credits.)

2980:495 Internship: Surveying and Mapping (3 Credits)
Prerequisites: 64 hours in program and permission. Supervised work experience in surveying and mapping to increase student understanding of surveying and mapping technology.

2980:497 Surveying Honors Project (3 Credits)
Prerequisites: Senior Studies as an honor student. Provides opportunities to research and develop a specific surveying project within chosen area of surveying. Oral, written, and geographical presentation of completed projects.

2980:498 Independent Study (1-3 Credits)
Prerequisite: Permission or instructor. Directed study in a special field of interest chosen by student in consultation with instructor. (May be repeated for a total of six credits.)