

GEOMATICS
Baccalaureate Degree
2003 – 2004

DEPARTMENT OF APPLIED SCIENCES
NICHOLLS STATE UNIVERSITY
THIBODAUX, LOUISIANA

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NICHOLLS STATE UNIVERSITY
BACCALAUREATE DEGREE IN GEOMATICS

DESCRIPTION

Nature of Program: The Bachelor of Science Degree Program in Geomatics is designed to offer college level preparation for recent high school graduates, for older adults, and for those already working in the field of land surveying to meet the educational requirements for registration as a Professional Land Surveyor in the State of Louisiana. The program is based on standards necessary to attain accreditation by the Accreditation Board for Engineering and Technology (ABET).

Definition of Geomatics: “Geomatics” is the new name rapidly becoming synonymous world wide with the term “Surveying”. Surveying has traditionally been defined as “the science, art, and technology of determining, or of establishing, the relative positions of points above, on, near, or beneath the earth’s surface.” Geomatics includes the traditional surveying definition along with surveying’s steadily increased importance with the development of new technologies and the growing demand for a variety of spatially related types of information, particularly in measuring and monitoring our environment. Increasingly critical are areas of expanding populations, appreciating land values, dwindling natural resources, and the continuing stressing of the quality of our land, water and air from human activities.

Objectives of the Program: The Geomatics Program will provide education in the way land form and spatial data are measured, recorded, processed, stored, retrieved and shared by the use of conventional methods and new technologies in Global Positioning Systems, Land Information Systems and Geographic Information Systems, and will align with the increasing demands by society for more data with increasing higher standards of accuracy.

Specific learning objectives of the Geomatics Program for students are:

- To know the theories and methods of measurements
- To understand other methods for collecting information about the physical earth and our environment
- To know how to process the gathered information and then how to best prepare a presentation of that information
- To introduce the students to basic laws governing the decisions to be made during the processing of information
- To meet the academic course requirements for registration as a professional land surveyor

The Geomatics Program addresses the needs of the Louisiana State Board of Registration for Professional Engineers and Land Surveyors, and the Louisiana Society of Professional Surveyors. The use of traditional course scheduling, distance learning technologies, on-site course offerings, and internships will maximize educational opportunities for both the traditional and nontraditional students. ABET accreditations requirements insure that sufficient faculty and facilities will be available so that courses can be offered in a timely manner. Professional accreditation will enhance graduate credentials enabling them to find employment in a variety of professional areas both in state and nationally.

For more information regarding the Geomatics Suggested Course Flow and the Geomatics Course Descriptions, please visit these pages:

http://www.nicholls.edu/mtps/programs/crsflow_geo.pdf

http://www.nicholls.edu/mtps/programs/crsdes_geo.pdf