GIST150 – Geospatial Data Collection

Overview to Data Collection and GIST150

Data collection is one of the most expensive GIS activities. It involves, planning, preparation, actual data collection, editing/improvement, and evaluation of the data. Data can be collected from different sources. The Geospatial Data Collection course is a broad overview of the input module of a Geographic Information System (GIS) that supports coherent outputs to spatial queries. The focus is on the operations and characteristics of land-based, airborne, and satellite systems for geospatial data acquisitions for GIS databases. Students will learn the basics of GIS input data quality, understand metadata descriptions, skills to evaluate and understand multi-sensor data fusion, data compatibilities and types, and a systems approach for a consistent output.

Course Focus

The focus of the course is to provide the student technician-level skill and understanding of working with geospatial data of GIS and recognizing its fundamental significance of data accuracy, and coherent geospatial data in the analysis and decision-making process

The Geospatial Data Collection course is a 4 credits course that is going to be offered during the Spring 2010 at the Atlantic Cape Community College, at the Mays Landing Campus.

- Section D01 will be offered on Fridays from 2:00-05:50PM (Call # 11353)
- Prerequisites: GIST101 Introduction Geographic Information Systems & MATH074-Introduction to Algebra II). Please, contact us if you have experience, training or courses from other institution in GIS and are interested in the course, so we can consider a waiver to the prerequisite.

Course Goals and Objectives

- Students will examine various types of geospatial data of GIS
- Students will investigate statistical concepts and theory of measurement errors
- Students will examine Data Reference Systems
- Students will demonstrate an understanding of Land-Based Data Acquisition Systems
- Students will demonstrate an understanding of Airborne Data Acquisition Systems
- Students will demonstrate an understanding of Space Based Data Acquisition Systems
- Students will recognize the importance of data integration
- Students will work with Geospatial data in ArcGIS

For more information about GIS or the course, please contact the GIS Program at:

Phone: 609-343-5607
email: gis@atlantic.edu
Web page: http://www.atlantic.edu/gis

GIS Programs
Atlantic Cape Community College
5100 Black Horse Pike
Mays Landing, NJ 08330