

GEOSPATIAL TECHNOLOGY (GST)

Course Descriptions

GST 101. Introduction to Geographic Information Systems (GIS). 3 Credit Hours.

Introduction to Geographic Information Systems (GIS) is a beginning course in geographic information systems and analysis designed for end users. The course focuses on the industry standard ArcGIS products and their various modules for exploratory research and spatial analysis. The purpose of this course is to introduce students to spatial thinking and awareness, fundamental geographic concepts, and the use of spatial technology as a research tool for problem solving and prediction.

Prerequisites: Reading Proficiency

Recommended Preparation: No previous exposure to GIS or mapping is necessary, however, quantitative reasoning, data management / spreadsheet experience, and solid computer skills are helpful

GST 102. Introduction to Unmanned Aircraft Systems. 3 Credit Hours.

Introduction to Unmanned Aircraft Systems introduces students to unmanned aircraft systems of various types and the current legal and ethical issues. Students will also be introduced to operation of sensors, payloads, and simulators. The important topics of sense-and-avoid technologies, human factors, and other safe flight issues will also be covered. The course prepares students for the Part 107 Remote Pilot's License exam.

Prerequisites: Reading Proficiency

Recommended Preparation: No previous experience with Unmanned Aircraft Systems is necessary, however, ability to read technical writing and some computer skills are helpful