

# GEOGRAPHIC INFORMATION SYSTEMS (GIS)

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## **GIS 203: Digital Earth-Geospatial (4)**

Introduction to geospatial technologies such as GPS, smartphones, mobile devices, and online mapping and navigation tools used in GIS, remote sensing, and geovisualization. Introduction of how present day information systems attempt to represent the features and attributes of our natural world in digital form. Examination of how these systems can be used to portray and solve geospatial problems. Introduction to the concept, vocabulary, and use of GIS. Concepts and applications in government, business, and the environment

**Terms Typically Offered:** Fall

## **GIS 234: GIS I-Intro to Geographic Info (4)**

This course is designed as an introduction to Geographic Information Systems and the spatial concepts it promotes. An understanding of digital geographic information and the intelligence behind it will be understood. ArcGIS is the software program used for spatial data input, analysis, and display

**Terms Typically Offered:** Winter

## **GIS 235: GIS II Data Analysis-App (4)**

Applications-based course. Develop and conduct geospatial analyses using various spatial data structures, techniques and models. Students acquire, clean, integrate, manipulate, visualize and analyze geospatial data through laboratory work. Import feature and non-feature data into a GIS. Data Conversion. Use of hand-held GPS/GIS units. Use and create web-based GIS applications and services.

**Prerequisite:** GIS 234.

**Terms Typically Offered:** Spring

## **GIS 280: CWE-GIS (1-13)**

Qualified students work at training sites that provide experience appropriate to their major. These experiences will provide the opportunity for students to gain knowledge of the various tasks performed in their career field. A student may take any number of CWE credits per term, not to exceed 13 credits per year except for students taking Occupational Skills Training (OST), which has a limit of 24 credits per year.

**Registration-Enforced Prerequisite:** Instructor approval.

**Terms Typically Offered:** Fall, Winter, Spring, Summer