**Geographic Information Systems (GIS)**

**Catalog Description**

Geospatial technologies, including Geographic Information Systems (GIS), Remote Sensing (RS), and Global Positioning System (GPS), are used to capture, store, manage, analyze and visualize geospatial information related to locations on Earth's surface. These technologies are used to combine various types of geospatial information in a digital environment and are widely used in our daily life, government agencies, in almost every industry.  Through this program students will develop an understanding of the theoretical underpinnings of geospatial technologies and gain the skills needed to construct high-quality applications.

**Required Courses:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Requirements** | **Dept. Name/#** | **Name** | **Units** | **CSU-GE** | **IGETC** | **Sequence** |
| Required Core (20 units) | Geog 9  Geog 10  Geog 11  Geog 12  Geog 13  Geog 14  Geog 15 | Geospatial Concepts  Intro to GIS  Cartography  Geospatial Data Management & Acquisition  Spatial Analysis  Raster Methods  Capstone Portfolio | 3  3  2  3  3  3  3 | B2 | Area 4 | Yr 1, Fall  Yr 1, Fall  Yr 1, Fall  Yr 1, Winter  Yr 1, Spring  Yr 1, Spring  Yr 1, Summer |

Required Core Total 20

TOTAL Units: 20

Proposed Sequence:

Year 1 Fall = 9

Year 1 Winter = 3

Year 1 Spring = 6

Year 2 Summer = 3

TOTAL UNITS: 20