**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 9Geog 10Geog 11Geog 12Geog 13Geog 14Geog 15 | Geospatial ConceptsIntro to GISCartographyGeospatial Data Management & AcquisitionSpatial AnalysisRaster MethodsCapstone Portfolio | 3323333 | B2 | Area 4 | Yr 1, FallYr 1, FallYr 1, FallYr 1, WinterYr 1, SpringYr 1, SpringYr 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