

OSS051 – INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS
(GIS)

Credit Hours: 3-4 Semester Hours
Pre-Requisite: None
Related TAG: Geography
General Course Description: This course introduces the theory and applications of Geographic Information Systems (GIS). Students will be able to explain the components of a GIS, including advantages and limitations; recognize and apply appropriate coordinate systems and projections; and produce effective maps using sound cartographic principles. Furthermore, the demonstrated ability to acquire, create, and/or manage spatial data for visualizing, summarizing, and analyzing problems will provide the insight necessary to recognize the vast array of real-world applications of GIS.
All of the learning outcomes marked with an asterisk (*) are essential and must be met.
1. Explain the components, context and aspects of a Geographic Information System (GIS), including advantages and limitations.*
2. Recognize map projections and coordinate systems and apply them appropriately to spatial data.*
3. Demonstrate knowledge of how reality is represented and transformed in spatial datasets.*
4. Demonstrate the ability to acquire, create, update and/or manage spatial data from disparate sources.*
5. Demonstrate the basic ability to visualize, summarize, analyze and interpret spatial data.*
6. Demonstrate an understanding of basic cartographic principles through designing and producing effective maps.
7. Recognize real-world applications of a Geographic Information System (GIS).*

**GEOGRAPHY TAG: INTRODUCTION TO GEOGRAPHIC INFORMATION
SYSTEMS TAG COURSE
FACULTY PARTICIPANTS**

August-November 2017

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