

Master Syllabus

GEO 1209 - Introduction to Cartography

Division: Liberal Arts, Communication and Social Sciences

Department: Geography

Credit Hour Total: 4.0

Lecture Hrs: 3.0 **Lab Hrs:** 2.0

Prerequisite(s): GEO 1107

Date Revised: June 2015

Course Description:

This course is an introduction to the science and art of map making. From the history and principles of thematic map compilation and design, basics of map projections, data sources and processing, map color, symbolization and topography to common types and styles of thematic maps. Three classroom, two lab hours per week.

General Education Outcomes:

- Oral Communication Competency
- Written Communication Competency
- Critical Thinking/Problem Solving Competency
- Values/Citizenship/Community Competency
- Computer Literacy Competency
- Information Literacy Competency

Course Outcomes:

Color Application Theory in Cartographic Design

Demonstrate an ability to apply the basics of color theory application in cartographic and map design.

Assessment Method: Locally developed exams
Performance Criteria:

Students must successfully complete exams with 70% or higher

Assessment Method: Portfolios
Performance Criteria:

Students must complete lab exercises with 70% or higher

Spatial Communication through Maps

Demonstrate an ability to design and effectively communicate spatial information through maps.

Assessment Method: Locally developed exams
Performance Criteria:

Students must successfully complete exams with 70% or higher

Assessment Method: Portfolios
Performance Criteria:

Students must complete lab exercises with 70% or higher

Map Creation and Presentation

Demonstrate an understanding of visual hierarchy in maps, layout design, symbology, pattern selection, and legend placement.

Assessment Method: Locally developed exams
Performance Criteria:

Students must successfully complete exams with 70% or higher

Assessment Method: Portfolios
Performance Criteria:

Students must complete lab exercises with 70% or higher

GIS Software Applications

Demonstrate the use of various GIS software applications in map design.

Assessment Method: Oral examination
Performance Criteria:

Students must successfully complete exams with 70% or higher

Assessment Method: Portfolios
Performance Criteria:

Students must complete lab exercises with 70% or higher

Map Types

Demonstrate an ability to identify various map types and interpret geographic spatial relationships within these maps.

Assessment Method: Oral examination
Performance Criteria:

Students must successfully complete exams with 70% or higher

Assessment Method: Portfolios
Performance Criteria:

Students must successfully complete lab exercises with 70% or higher

The Principles of Cartographic Design and Production

Apply principles of cartographic design and production.

Assessment Method: Locally developed exams
Performance Criteria:

Students must successfully complete exams with 70% or higher

Assessment Method: Portfolios
Performance Criteria:

Students must complete lab exercises with 70% or higher

Outline:

Principles and practices of cartography

Computer assisted cartography

Qualitative and quantitative information

Map projections

Map design and presentation

Basic statistical concepts for cartography: classification methods

Visual thinking and visual communication

Data collection: GPS