Sinclair Community College
444 E. Third St.
Dayton, OH 45402

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

Date Revised: June 2014

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

Course Outcomes:

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

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

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

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

Outline:

Principles and practices of cartographyComputer assisted cartographyQualitative and quanitative informationMap projectionsMap

design and presentationBasic statistical concepts for catography: classification methodsVisual thinking and visual communicationData collection: GPS