

GGG 685 – Capstone Course Geoinformatics – Spring 2019

Class Time: Thursday, 7:20pm – 10pm

Class Location: Exploratory Hall – 2312

Instructor: Dr. Steve Jackson, sjacks11@gmu.edu (Office hours by appointment only)

Course Description - This is a graduate capstone course. The course includes seminar and project sections. The seminar section will be led by students who will be discussing trends and literature related to contemporary challenges in geoinformatics. The project section will be an opportunity for students to apply their skills toward a problem of their choice related to one or more of the course themes.

Course Goal: Discuss, write, and present a journal-worthy paper applying what you have learned in your program of study related to one of the course themes.

Jan 24 – Course Introduction and Structure

Jan 31 – Overview of Themes

Feb 07 – Defining, Planning, and Managing Geographic Investigation

Discussion Lead Sign-Up & Project Partner Selection

Feb 14 – Trends in Spatial Data and Geoinformation Technology

Feb 21 – Modeling a Problem Domain – **Project Proposals Due**

Feb 28 – Measuring the Environment

Mar 07 – Observing - Human-based Observation

SPRING BREAK

Mar 21 – Observing - Computer Vision

Mar 28 – Analysis – Applied Spatial Analysis

Apr 04 – Analysis – New Methods

Apr 11 – Data Presentation and Visualization

Apr 18 – Project Work

Apr 25 – **Project Presentations part 1 & Project Papers Due**

May 02 – **Project Presentations part 2**

Grading: There are five components to your grade.

Project paper = 40%

Project presentation = 20%

Leading discussion = 20%

Class participation/Article reflections = 10%

Class attendance = 10%