

GG5 685 - Geoinformatics – Spring, 2018

Class Time: Thursday, 7:20pm – 10pm

Class Location: Exploratory Hall - 2312

Instructor: Bryan Weaver, bweaver5@gmu.edu ([Office hours by appointment only](#))

Course Description - This is a graduate capstone course. Half of the course will be seminar style, discussing trends and literature related to contemporary challenges in geoinformatics. Half of the course will be project work, applying your skills toward a problem of your 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 25 – Course Introduction and format. People Introduction.

Feb 01 – Overview of Themes

Feb 08 – Defining, Planning, and Managing Geographic Investigation

Discussion lead sign-up and project partnering

Feb 15 – Trends in Spatial Data and Geoinformation Technology

Feb 22 - Modeling a Problem Domain – **Project Proposals Due**

Mar 01 – Measuring the Environment

Mar 08 – Observing - Human-based Observation

SPRING BREAK

Mar 22 – Observing - Computer Vision

Mar 29 – Analysis – Applied Spatial Analysis

Apr 05 – Analysis – New Methods

Apr 12 – Data Presentation and Visualization

Apr 19 – Project Work

Apr 26 – **Presentations part 1 & Term Papers Due**

May 04 – **Presentations part 2**

Grading: There are five components to your grade.

Project paper = 40%

Project presentation = 20%

Leading discussion = 20%

Class participation = 10%

Class attendance = 10%