GGS684 SELECT TOPICS IN GEOSPATIAL INTELLIGENCE

SYLLABUS

Course Information

Course number:	GGS684
Course title:	Select Topics in Geospatial Intelligence
Class Meetings:	Exploratory Hall Room 2301; Wed 7:20pm – 10:00pm
Class Web Page:	http://2017ggs684.pbworks.com/

Professor Contact Information

Professor:	Anthony Stefanidis
Email:	astefani@gmu.edu
Office:	Exploratory Hall, Room 2312
Office Hours:	Mo 12:00 - 2:00 (email confirmation required) and by appointment
Office Phone:	(703) 993-1212
Home Page:	http://astefanidis.org
Twitter:	@GeoSocialMason

Course Description

Covers topics relevant to geospatial intelligence, especially addressing emerging trends, focused intelligence applications, and relevant technological advances, not covered by existing courses. The course offers an overview of structured analytical techniques, an overview of geospatial intelligence tradecraft and standard operational issues, as well as an overview of emerging technologies and approaches. The course requires analytical, collaborative, and communication skills.

Required Textbook

No required textbook. A number of reading assignments are distributed via the course website.

Grading Policy

Students are assigned homework exercises and a class project. They work individually and in teams. Evaluations are provided at each interim assignment and for the final project. Final grades are based on quality and content of presentations and reports, and class participation.

At the end of the term all the marks will be totaled as a weighted average according to the following weights:

Intermediate assignments	**30%**
Class participation	**30%**
Final report and presentation	**40%**

Final grades at the end of the course will be assigned using a combination of absolute achievements and relative standing in the class.

Course & Instructor Policies

Academic Integrity: Students are expected to follow the GMU Honor Code (academicintegrity.gmu.edu)

All academic accommodations regarding disabilities must be arranged through the **Office of Disability Resources** (703-993-2474)

Course outline (tentative)

Below you may find the tentative outline of the course.

Week	Topic	Assignment	
		Release	Due
1	Introduction and overview of course objectives – GEOINT body of knowledge		
2	Structured analytic techniques	Assignment 1	Week 5/6
3	Projecting future geopolitical needs		
4	Strategic Intelligence	Project Part 1	Week 9
5	TBD		
6	The history and evolution of geospatial intelligence		
7	Geospatial intelligence: Established and emerging sensors		
8	Open Street Map and VGI		
9	Spatial and temporal visualization of knowledge		
10	USGS – A New Mapping Program for the 21st Century	Project Part 2	Week 15
11	Hyperspectral Remote Sensing		
12	NGA Operations and Challenges		
13	Project Preparation		
14	Project preparation		