

SYLLABUS: FALL SEMESTER - 2019
DR. HAACK

GGG 412: AERIAL PHOTOGRAPHY; T, TR 10:30 - 11:45, EXPLORATORY HALL 2103

DATE	TOPIC	CHAPTER	
August	27	Introduction, Logistics	1
	29	Logistics Basic Definitions	1,26
September	3	Scale Determination	2, 4
	5	Platforms, Electromagnetic Spectrum	26
	10	Area Determinations	5
	12	Transects, Digital Software	
	17	Photo Orientation	
	19	Principles of Photointerpretation	15
	24	Principles of Photointerpretation	
October	26	Stereoscopic Procedures	3
	1	Height Determination	6
	3	Height Determination, Literature/Organizations	
	8	Energy Flow Profile	14
	10	Films and Filters/ Foreign Photography	
	15	NO CLASS COLUMBUS DAY	
	17	Sources of Photography	7
	22	Land Use Land Cover	18
	24	Land Use Land Cover	18
	29	<u>Mid-term Exam</u>	
	31	Rectification, Orthophotography, GIS	8,9,10,12
November	5	Environmental Monitoring	19
	7	Agriculture and Forestry	20,21
	12	Foreign Photography Presentations	
	14	Guest Speaker	
	19	Urban and Industrial Patterns, Archeology	20
	21	Guest Speaker	
	26	Landforms, Geology and Soils	16,17
	28	THANKSGIVING	
December	3	Non-photographic Remote Sensing	27, 28
	5	Non-photographic Remote Sensing	

Schedule may change depending on guest speaker availability.

Final Examination: Tuesday December 17, 10:30 am – 1:15 pm

Instructor: Barry Haack, Exploratory Hall 2411, bhaack@gmu.edu, 703-993-1215
Office Hours: Thursday 1400-1600, and by appointment.

Honor Code: Students are expected to review and abide by the GMU Honor Code.

Recommended Text: D. Paine and J. Kiser, **Aerial Photography and Image Interpretation**, Third Edition, 2012.

Grading Procedure: Four letter grades from the midterm, comprehensive final, annotated bibliography and exercises will all count equally towards the course grade. Letter grades for the examinations are based on a class/exam specific instructor determined curve (Predetermined percentile levels are not used). Failure to satisfactorily complete all assignments satisfactorily will result in a course grade of F.

Assignment Policy: The assignments are an integral aspect of this course providing a significant component of the educational process. Because of the importance of these assignments, some policies concerning their completion are necessary. These policies include:

1. Assignments are due at the beginning of the class as scheduled.
2. All late assignments, unless a valid excuse is accepted, will be penalized on a geometrically progressing basis as follows 0, 1, 2, 4 point deductions.
3. Assignments not completed or inadequately completed are sufficient reason to receive a failing course grade.

Course Objectives: GGS 412 provides an understanding of the use of aerial photographs for the collection and analysis of spatial information. About one half of the course is presentation of techniques such as scale, area and height determination, film types, land use/cover mapping, and GIS integration. The remainder of the course provides the student an opportunity to apply these tools to a wide variety of applications and photography. Much of the learning experience is out-of-class, hands-on assignments as well as extensive examination of photography in class.

Classroom Etiquette: It is inappropriate to use cell phones in the classroom. It is also inappropriate to use computers for any purpose other than taking notes. Please abide by these courtesies for your classroom peers, the instructor and the educational process.