

SYLLABUS: FALL SEMESTER - 2016

DR. HAACK

GGs 412: AERIAL PHOTOGRAPHY; M, W 10:30 - 11:45, EXPLORATORY HALL 2103

DATE	TOPIC	CHAPTER	
August	29	Introduction, Logistics	1
	31	Basic Definitions, Electromagnetic Spectrum	1,26
September	5	Labor Day Holiday	
	7	Scale Determination	2, 4
	12	Area Determinations	5
	14	Transects, Digital Software	
	19	Photo Orientation	
	21	Principles of Photointerpretation	15
	26	Principles of Photointerpretation	
	28	Stereoscopic Procedures	3
October	3	Height Determination	6
	5	Height Determination, Literature/Organizations	
	10	No Class Columbus Day	
*Tues	11	Energy Flow Profile	14
	12	Films and Filters/ Foreign Photography	
	17	Sources of Photography	7
	19	Land Use Land Cover	18
	24	<u>Mid-term Exam</u>	
	26	Land Use Land Cover	
	31	Rectification, Orthophotography, GIS	8,9,10,12
November	2	Agriculture and Forestry	20,21
	7	Foreign Photography Presentations	
	9	Guest Speaker	
	14	Urban and Industrial Patterns, Archeology	20
	16	Guest Speaker	
	21	Landforms, Geology and Soils	16,17
	23	Thanksgiving	
	28	Guest Speaker	
	30	Environmental Monitoring	19
December	5	Non-photographic Remote Sensing	27, 28
	7	Non-photographic Remote Sensing	

Schedule may change depending on guest speaker availability.

Final Examination: Wednesday December 14, 10:30 am – 1:15 pm

Instructor: Barry Haack, Exploratory Hall 2411, bhaack@gmu.edu, 703-993-1215
Office Hours: Monday 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 for the midterm, comprehensive final, annotated bibliography or term paper, 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.