

SYLLABUS: FALL SEMESTER - 2015
DR. HAACK

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

DATE	TOPIC	CHAPTER
August	31 Introduction, Logistics	1
September	2 Basic Definitions, Electromagnetic Spectrum	1,26
	7 Labor Day Holiday	
	9 Scale Determination	2, 4
	14 Area Determinations	5
	16 Transects, Digital Software	
	21 Photo Orientation	
	23 Principles of Photointerpretation	15
	28 Principles of Photointerpretation	
	30 Stereoscopic Procedures	3
	October	5 Height Determination
7 Height Determination, Literature/Organizations		
12 No Class Columbus Day		
*Tues 13 Energy Flow Profile		14
14 Films and Filters/ Foreign Photography		
19 Sources of Photography		7
21 Land Use Land Cover		18
26 <u>Mid-term Exam</u>		
28 Land Use Land Cover		
November		2 Rectification, Orthophotography, GIS
	4 Agriculture and Forestry	20,21
	9 Foreign Photography Presentations	
	11 Guest Speaker	
	16 Urban and Industrial Patterns, Archeology	?
	18 Guest Speaker	
	23 Landforms, Geology and Soils	16,17
	25 Thanksgiving	
	30 Guest Speaker	
	December	2 Environmental Monitoring
7 Non-photographic Remote Sensing		27, 28
9 Non-photographic Remote Sensing		

Final Examination: Wednesday December 16, 10:30 – 1:15 am

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 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 material you will be expected to understand. 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.
3. Assignments not completed or inadequately completed are sufficient reason to receive a failing or incomplete 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.