

Louisiana Tech University

Geographic Information Systems Center



Aerial Photo Interpretation GISC 217

Spring Quarter 2008
Section 1 Tuesday 2:00 – 5:15
Lomax Hall, room #2

Syllabus

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Course Objective:

This class is designed to provide students with a working knowledge of the principles of obtaining information from aerial photos for natural resource management.

By completing this course, students will:

- Gain a basic understanding of Aerial Photo Interpretation concepts
- Realize the wide range of Aerial Photo Interpretation applications
- Understand the technical language of Aerial Photo Interpretation
- Gain practical experience using tools for Aerial Photo Interpretation
- Gain basic skills in image interpretation

Intended Audience:

This course is designed for people who are unfamiliar with Aerial Photo Interpretation, yet have basic knowledge of computers and the internet.

Prerequisites: Suggested Sophomore Standing

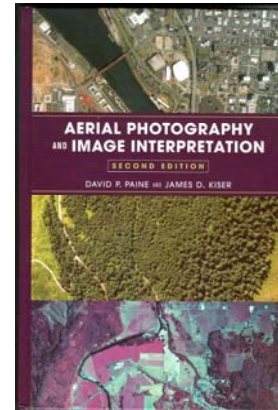
Course Format:

Lectures, discussion, demonstrations of Aerial Photo Interpretation topics, weekly readings and lab worksheets.

Students needing testing or classroom accommodations based on a disability are encouraged to discuss those needs with the instructor as soon as possible.

Text:

Aerial Photography and image Interpretation,
second edition
By David P. Paine and James D. Kiser
John Wiley & Sons, Inc 2003
ISBN: 0-471-20489-7



Class Schedule:

Week 1. March 11 Introduction to Aerial Photo Interpretation

Lecture: Orientation, course overview, the photographic process, geometry of a photo

Lab: View some internet sites on Aerial Photo Interpretation

Reading assignment:
Chapters 1-3

Written Assignment due next Tuesday 1:00:
Answer Reading Questions 1-1 to 3-14
(Turn in the questions by taking the Reading 1 quiz on Blackboard)

Study: Vocabulary Week 1

Week 2. March 18 Principles of Stereo Vision

Answers to Reading Questions 1-1 to 3-14 due today at 1:00 pm

Lecture: Stereo vision principles

Lab: Stereo viewing

Reading assignment
Chapters 4 & 5

Written Assignment due next Tuesday: Answer Reading Questions #4-1 to 5-8
(Turn in the questions by taking the Reading 2 quiz on Blackboard)

Study: Vocabulary Week 2

Week 3. March 25 Photo Scale & Measurements

Answers to Reading Questions #4-1 to 5-8 due today at 1:00 pm

*** **Quiz** over Vocabulary Weeks 1 & 2 ***

Lecture: Photo scale and measurements

Lab: Determining Scale, Distance & Area measurements

Reading assignment:
Chapters 6 & 7

Written Assignment due next Tuesday: Answer Reading Questions #6-1 to 7-18
(Turn in the questions by taking the Reading 3 quiz on Blackboard)

Study: Vocabulary Week 3

Week 4. April 1 Vertical Measurements

Answers to Reading Questions 6-1 to 7-18 due today at 1:00 pm

Lecture: Vertical Measurements

Lab: Vertical measurements

Reading assignment:
No

Study: Vocabulary Week 4
Study for Midterm

Week 5. April 8 Midterm (over readings & vocabulary weeks 1-4)

Lecture: Feature Identification

Lab: Feature ID, review height measurements

Reading assignment:
Chapters 8 & 11, review Ch 7

Written Assignment:
Answer Reading Questions # 8-1 to 11-4
(Turn in the questions by taking the Reading 4 quiz on Blackboard)

Study: Vocabulary Week 5

Week 6. April 15 Area Measurements

Answers to Reading Questions 8-1 to 11-4 due today at 1:00 pm

Lecture: Area Measurements

Lab: South Campus Buildings Project

Reading assignment:
Chapters 13-15

Written Assignment:
Answer Reading Questions # 13-1 to 15-8
(Turn in the questions by taking the Reading 5 quiz on Blackboard)

Study: Vocabulary Week 6

Week 7. April 22 Flight Planning

Answers to Reading Questions 13-1 to 15-8 due today at 1:00 pm

Lecture: Flight Planning

Lab: Flight Planning

Reading assignment:
Chapters 23-25

Written Assignment:
Answer Reading Questions # 23-1 to 24-12
(Turn in the questions by taking the Reading 6 quiz on Blackboard)

Study: Vocabulary Week 7

Week 8. April 29

Lecture: Photo Timber Cruise

Lab: Photo Timber Cruise

Answers to Reading Questions 23-1 to 24-12 due today at 1:00 pm

Week 9. May 6 Lab Practical

Lab Practical over all labs

Week 10. May 13 Final Exam (Comprehensive over Reading questions, vocabulary)

Grading:

Reading Questions	12%	6 assignments @ 2 points each
Lab Exercises	24%	8 labs @ 3 points each
Lab Practical	12%	1 @ 12 points
Quiz	4%	1 @ 4 points
Mid Term Exam	24%	1 @ 24 points
<u>Final Exam</u>	<u>24%</u>	<u>1 @ 24 points</u>
Total	100%	100 points

Grading Scale:

Percent

91% - 100 A

81 - 90 B

71 - 80 C

61 - 70 D

Important!!! All lab assignments are due by the end of the lab. If you can not make the lab, please contact me for arrangements to make up the lab.

Be sure to check all Due dates in this syllabus. They will be strictly adhered to – No late assignments will be accepted without prior approval.

In accordance with the Academic Honor Code, students pledge the following: **“Being a student of higher standards, I pledge to embody the principles of academic integrity”**. Help each other out, but do not copy each other’s work. I repeat, you must turn in your own work. I give a 0 for the assignment if you are found cheating or copying someone else’s work and also a penalty taken off your overall grade.

Instructor:

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Office Hours:

Monday through Friday 10:30 to 12:30