NRM 76 Course Outline as of Fall 2010

CATALOG INFORMATION

Dept and Nbr: NRM 76 Title: FOREST PHOTO INTERP
Full Title: Use of Aerial Photos in Forestry
Last Reviewed: 2/22/1994

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	3.00	Lab Scheduled	3.00	10	Lab Scheduled	52.50
		Contact DHR	0		Contact DHR	0
		Contact Total	5.00		Contact Total	87.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00 Total Student Learning Hours: 157.50

Title 5 Category:	AA Degree Applicable
Grading:	Grade or P/NP
Repeatability:	00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:	
Formerly:	FOR 76

Catalog Description:
Use of aerial photographs in forestry, including photo scales, orientation of photographs, forest type maps and measurement of forest volumes.

Prerequisites/Corequisites:

Recommended Preparation:
Eligibility for ENGL 100 or ESL 100.

Limits on Enrollment:

Schedule of Classes Information:
Description: Use of aerial photographs in forestry, including photo scales, orientation of photographs, forest type maps and measurement of forest volumes. (Grade or P/NP)
Prerequisites/Corequisites:
Recommended: Eligibility for ENGL 100 or ESL 100.
Limits on Enrollment:
Transfer Credit:
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**	Effective:	Inactive:
CSU GE:	**Transfer Area**	Effective:	Inactive:
IGETC:	**Transfer Area**	Effective:	Inactive:

CSU Transfer: Effective: Inactive:

UC Transfer: Effective: Inactive:

CID:

Certificate/Major Applicable:
Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:
Student will:
A. Be able to view the photos in 3D
B. Be able to determine the scale of an aerial photo
C. Be able to locate the student's position on an aerial photo
D. Be able to calculate tree heights from aerial photo
E. Be able to separate different tree species
F. Be able to make a basic timber type map from aerial photos
G. Be able to make a recreational inventory
H. Understand the use of satellite photography for natural resources

Topics and Scope:

A. Aerial Photos
   1. Types
   2. Remote sensing
B. Photogrammetry
   1. Scale
   2. Shadows
   3. Displacement
   4. Stereoscopy
C. Mapping
   1. Planimetric
   2. Contours
D. Photo Interpretation
   1. Principles and techniques
   2. Measurement of trees
   3. Estimates of diameters
   4. Use of photographs in controlling ground inventories

Assignment:

There will be assignments from text reports and mathematics.

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Lab reports, Essay exams, COMPUTATIONAL SKILLS	Writing 20 - 20%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Field work, Lab reports, Quizzes, Exams	Problem solving 30 - 30%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performances, Field work, Performance exams	Skill Demonstrations 30 - 30%

Exams: All forms of formal testing, other than skill performance exams.

True/false, Completion, COMPUTATIONAL SKILLS	Exams 20 - 20%

Other: Includes any assessment tools that do not logically fit into the above categories.

None	Other Category 0 - 0%

Representative Textbooks and Materials:
"Interpretation of Aerial Photographs"; Thomas Avery