

OCT 13 1998

GRANDE PRAIRIE REGIONAL COLLEGE

DEPARTMENT OF SCIENCE AND TECHNOLOGY Bachelor of Applied Forest Resource Management

FO3000 Computer Applications in Forestry 2(2-0-2) Course Outline Fall 1998

Instructor: Matt Devine
Prerequisite: CS1570
Lecture/Lab: Saturday 9:00 - 11:50
13:00 - 15:50
Thursday 18:30 - 20:20
Computer Software: ARCVIEW

Calendar Description:

Introduction to computer technologies applied in forest resources management, including GIS (Geographic Information System), AAC (Annual Allowable Cut) model and other computer models. Principles, concepts, spatial functions, and applications particularly in forest landscape management and design will be emphasized.

Mark Distribution: Laboratories: 30%
Interim Quiz: 35%
Final Exam: 35%

9 - POINT GRADE	PERCENTAGE EQUIVALENT	DESIGNATION
9	90 - 100	EXCELLENT
8	80 - 89	
7	72 - 79	
6	65 - 71	GOOD
5	57 - 64	
4	50 - 56	PASS
3	45 - 49	
2	26 - 44	FAIL
1	0 - 25	

Course Schedule:

September 1 & 2, 1998 Introduction to GIS

- Introductions
- Review of schedule/outline
- Components of GIS
- Data
- Topology
- ARC/INFO coverage
- DEM
- Raster vs. Vector

September 3, 1998 Data Concepts

- Sources of Data
- Methods of Data capture
- Digitizing
- Registration
- Data used in ARCVIEW

September 4, 1998 Introduction to projects/views/user interface

- Introduction to projects
- Project properties
- Introduction to views
- View properties
- Creating views
- Setting view properties
- Adding/creating themes

September 10, 1998 Creating a Project (Lab 1)

September 12, 1998 Quiz 1 - Working with Themes

- Review
- Quiz - one hour
- Introduction

September 17, 1998

- Review layout interface
- Working with layouts
- Layout properties

- Adding layout components
- Overview of creating a layout
- Creating a full layout

September 24, 1998 Introduction to layouts

- Complete introduction to layouts
- Lab 2

September 26, 1998 Field Trip to Millar Western

October 1, 1998 Quiz Two - Introduction to Tables

- Review
- Quiz 2
- Introduction to tables

October 8, 1998 Tables/Lab 3

- Complete tables
- Lab 3 - working with tables

October 10, 1998 Introduction to GPS

- GPS theory

October 15, 998 Review Final Exam