SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE MARIE, ON

COURSE OUTLINE

Course Title: Research Project / Presentation II

Code No.: GIS 411   **Semester:** 2

Program: GIS Specialist

Author: Dennis Paradine

Date: January, 1999   **Previous Outline Date:** NEW

Approved: _L. DeRosario_   _Feb 3/99_
Dean   **Date**

Total Credits: 4   **Prerequisite(s):** GIS 406
Length of Course: 3 hrs*11 wks   **Total Credit Hours:** 60 hrs

Research Project / Presentation II   GIS 411

COURSE NAME   COURSE NUMBER

I.   COURSE DESCRIPTION:

This course is an extension of GIS406. Formal presentations have become an essential element of common day business. The students in this course will present their final projects using a variety of multi-media, interfacing between different software and presentation designs. After completing this course, students will be able to effectively convey the results of their assigned project in a format that would be easily comprehended by a non-GIS person.

II.   LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course the student will demonstrate the ability to:

1)   Design a GIS Project
- design a GIS Project with multiple definable components
- write a project proposal including estimated costs, resources required and time-frame
- present a proposal to a 'like' audience for review and suggestions
- edit a GIS project proposal as required

2)   Orally Present GIS Project Outlines and Technical Reports to a Peer Audience

Potential Elements of the Performance:

- design background material for an oral presentation
- define an audience and relevant content for a presentation
- prepare and practice an oral presentation
- give an effective oral presentation

3)   Design and Create a GIS-Based Hard-Copy Report for Public Presentation

Potential Elements of the Performance:

- design and critique a report template (including written report, maps, figures and tables)
- create report contents using GIS, remote sensing, GPS and/or other resources
- edit reports as required
- produce a high quality final report

II.   LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE
(Continued)

4)   Give an Arc-View Based Presentation to a 'Management' Audience

Potential Elements of the Performance:

- design and create background material for a management Arc-View presentation
- prepare presentation materials for a non-GIS management audience
- give an Arc-View based oral GIS presentation with summary handouts

5)   Design, Create and Post a Web Page

Potential Elements of the Performance:

- design and critique a web page template
- create web page contents using various multi-media and GIS resources
- create web page
- post and market web page

III. TOPICS:

1)   Design a GIS Project (6 hours)
- presentation as a way of marketing
- audiences and levels of presentation
- designing large projects

2)   Orally Present GIS Project Outlines and Technical Reports to a Peer Audience (6 hours)
- components of an effective oral presentation
- the use of visual aids and computers in presentations
- practicing for results

3)   Design and Create a GIS-Based Hard-Copy Report for Public Presentation (9 hours)
- large report presentation and management
- fundamentals of cartography
- map presentations

4)   Give an Arc-View Based Presentation to a 'Management' Audience (6 hours)
- interfacing between different software packages
- use of Arc-View for presentations

5)   **Design, Create and Post a Web Page (6 hours)**
- effective web page design for differing objectives (first impressions, two clicks and out rule, frames vs. no-frames)
- posting a web page
- marketing a web page

IV.   REQUIRED RESOURCES/TEXTS/MATERIALS:

ESRI. 1997. Understanding GIS: The ARC/INFO Method. Version 7.1 for Unix and Windows NT. Cambridge, Environmental Research Systems Institute Inc. n.p.

ADDITIONAL RESOURCE MATERIALS

Simkin, M.G. Applications Programming in Visual Basic 5, 2nd Ed. Scott/Jones

ESRI. 1997. Getting to Know Arc/View GIS: the Geographic Information System (GIS) for everyone. Cambridge. Environmental Research Systems Institute Inc. n.p.

Heit, M. H.D. Parker and A. Shortreid (Editors). 1996. GIS Applications in Natural Resources 2. Fort Collins, GIS World Books. 540 pp.

Additional handouts and references may be provided throughout the course.

V.   EVALUATION PROCESS/GRADING SYSTEM:

Projects   80%

Practical Assignments   20%

Total   100%

Grading: A+ = 85% and over consistently
              A   = 75-84%
              B   = 68-74%
              C   = 60-67%
              R   = less than 60%

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VI.   SPECIAL NOTES:

Special Needs
If you are a student with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities), you are encouraged to discuss required accommodations with the instructor and/or contact the Special Needs Office, Room E1204, Ext. 493, 717, 491 so that support services can be arranged for you.

Retention of Course Outlines
It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other post-secondary institutions.

Plagiarism
Students should refer to the definition of "academic dishonesty" in the "Statement of Students Rights and Responsibilities."

Students who engage in "academic dishonesty" will receive an automatic failure for that submission and/or such other penalty, up to and including explusion from the course, as may be decided by the professor.

In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Course Curriculum Changes
The instructor reserves the right to change course curriculum as necessary

VII.   PRIOR LEARNING ASSESSMENT

Students who wish to apply for advanced credit in the course should consult the instructor. Credit for prior learning will be given upon successful completion of the following: