

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



COURSE OUTLINE

COURSE TITLE: Research Project / Presentation II

CODE NO. : GIS 411 **SEMESTER:** 12W

PROGRAM: Geographic Information Systems Applications Specialist

AUTHOR: Heath Bishop

DATE: Jan, 2012 **PREVIOUS OUTLINE DATED:** Dec, 2011

APPROVED:

"B.Punch"

CHAIR

DATE

TOTAL CREDITS: 5

PREREQUISITE(S): GIS406 – Research Project / Presentation I

HOURS/WEEK: 3

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For additional information, please contact Brian Punch, Chair
Environment, Design and Business
(705) 759-2554, Ext. 2681

I. COURSE DESCRIPTION:

Projects form the foundation of modern day to day business and research. In this course the student develops project management, oral presentation, and report writing skills by completing a GIS, remote sensing or GPS project of their choosing. Project ideas and sponsorship originate from commercial industry or government. Students work closely with the project sponsors to ensure the project goals and objectives are met.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

1. Work through a GIS project

Potential Elements of the Performance:

- Demonstrate effective project and time management skills
- Produce and update project status reports
- Perform GIS, remote sensing, GPS and related processing steps
- Re-define the project as required
- Perform effective database maintenance
- Learn to work in a collaborative team environment
- Produce a high quality final report

2. Demonstrate a working knowledge of MS Project; a project management software package

Potential Elements of the Performance:

- Define critical paths, milestones and resource use
- Input tasks and assign task duration
- Develop and update a GANTT bar chart schedule
- Use MS Project 2000 to schedule project steps

3. Produce a business proposal

Potential Elements of the Performance:

- Respond to a Request for Proposal (RFP)
- Create a project budget
- Perform time-line mapping and allocate resources

- Create a professional proposal
4. Practice good workplace personal management skills

Potential Elements of the Performance:

- Understand and practice stress management techniques
 - Practice prioritization and decision-making techniques
 - Understand the fundamentals of good workplace communication
 - Produce high-quality resumes and cover letters
 - Perform career prioritization and job searches
5. Perform effective oral presentations

Potential Elements of the Performance:

- Explain presentation as a marketing method
- Design background material for an oral presentation
- Define an audience and relevant content for a presentation
- Perform an effective oral presentation with the use of presentation software

III. TOPICS:

1. Working through a GIS project
 - Large project management
 - Status reports
 - Project re-definition
 - Database maintenance
 - Assembling a GIS report
 - Data dictionaries and metadata
 - Producing a high quality final report
2. Project management (MS Project 2000)
 - Project management theory
 - Identifying tasks and assigning task duration
 - GANTT bar charts
 - Project evaluation and review
 - MS Project 2000 for scheduling and determining critical paths
3. Business proposal
 - Responding to a request for proposal
 - Budgeting and time-line mapping
 - Staff allocation

- Producing a professional and complete proposal
4. Workplace management skills
- Stress management
 - Prioritization and decision-making
 - Working in a collaborative team environment
 - Fundamentals of good workplace communication
 - Resumes, cover letters, career analysis and job searches
5. Oral Presentations
- Presentation as marketing
 - Audiences and levels of presentation
 - Components of an effective oral presentation
 - The use of visual aids and computers in presentations
 - Presenting GIS project results

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

None

V. EVALUATION PROCESS/GRADING SYSTEM:

Assignments (5)	65%
Presentations (2)	<u>35%</u>
Total	100%

Note: All assignments are due at the beginning of class on the scheduled due date, or will be subject to a 10% penalty. Each subsequent day that the assignment is not handed in by 8:30am is an additional 10% deduction.

The following semester grades will be assigned to students:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A+	90 – 100%	4.00
A	80 – 89%	3.00
B	70 - 79%	3.00
C	60 - 69%	2.00
D	50 – 59%	1.00
F (Fail)	49% and below	0.00

CR (Credit)	Credit for diploma requirements has been awarded.
S	Satisfactory achievement in field /clinical placement or non-graded subject area.
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.
X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.
NR	Grade not reported to Registrar's office.
W	Student has withdrawn from the course without academic penalty.

VI. SPECIAL NOTES:

Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.

Course Outline:

The Professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

VI. COURSE OUTLINE ADDENDUM:

The provisions contained in the addendum located on the portal form part of this course outline.