



**I. COURSE DESCRIPTION:****II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:**

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

## 1. Understand and use Global Positioning Systems

Potential Elements of the Performance:

- Explain how Global Positioning Systems work
- Capture GPS data in the field and integrate into a Geographic Information System
- Understand the process of differentially correcting GPS data
- Produce GPS-based map products

## 2. Develop high-quality computer-based presentations

Potential Elements of the Performance:

- Create an advanced computer-based presentation using PowerPoint
- Use computer graphics software packages
- Recognize different graphics file formats
- Recognize good graphic presentation practice
- Scan documents and images

## 3. Design a GIS Project

Potential Elements of the Performance:

- Describe the fundamentals of project management
- Place the GIS process within a project management framework
- Write a GIS project proposal, including details on the estimated costs, resources required, and time-frame
- Map geomatics processing procedures
- Present project proposals for review and suggestions

**III. TOPICS:**

## 1. Global Positioning Systems (GPS)

- GPS defined, GPS components, accuracy and error
- Differential correction of GPS data
- Field data collection and computer uploading and downloading
- Integration of GPS data into GIS

## 2. Computer presentation applications

- Computer graphics software
- Image file sizes and formats
- Scanning and using documents and images in presentations
- Graphic design elements and principles in computer presentation
- PowerPoint presentations
- Fundamentals of an effective presentation

## 3. GIS Project Design

- Fundamentals of GIS project management
- Designing a GIS project and mapping out GIS procedures
- Preparing a project charter and project plan
- Presenting a project proposal for review

**IV. REQUIRED RESOURCES/TEXTS/MATERIALS:**

Martin, P. and K. Tate. 1997. Project Management Memory Jogger. Goal/QPC. 175 pages.

**V. EVALUATION PROCESS/GRADING SYSTEM:****Grading System:**

Assignments (5)	45%
Presentations (2)	40%
Test	<u>15%</u>
	100%

The following semester grades will be assigned to students:

<b>Grade</b>	<b><u>Definition</u></b>	<i>Grade Point Equivalent</i>
A+	90 – 100%	4.00
A	80 – 89%	
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:

### Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Special Needs office. Visit Room E1101 or call Extension 2703 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 postsecondary institutions.

### Communication:

The College considers **WebCT/LMS** as the primary channel of communication for each course. Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information. Success in this course may be directly related to your willingness to take advantage of the **Learning Management System** communication tool.

### Plagiarism:

Students should refer to the definition of "academic dishonesty" in *Student Code of Conduct*. Students who engage in academic dishonesty will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. 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 Outline Amendments:

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.

Substitute course information is available in the Registrar's office.

Tuition Default:

Students who have defaulted on the payment of tuition (tuition has not been paid in full, payments were not deferred or payment plan not honoured) as of the first week of *<choose November, March, or June>* will be removed from placement and clinical activities. This may result in loss of mandatory hours or incomplete course work. Sault College will not be responsible for incomplete hours or outcomes that are not achieved or any other academic requirement not met as of the result of tuition default. Students are encouraged to communicate with Financial Services with regard to the status of their tuition prior to this deadline to ensure that their financial status does not interfere with academic progress.

**VII. PRIOR LEARNING ASSESSMENT:**

Students who wish to apply for advance credit transfer (advanced standing) should obtain an Application for Advance Credit from the program coordinator (or the course coordinator regarding a general education transfer request) or academic assistant. Students will be required to provide an unofficial transcript and course outline related to the course in question.

Credit for prior learning will also be given upon successful completion of a challenge exam or portfolio.