



COURSE OUTLINE

GIS411

Prepared: Heath Bishop Approved: Corey Meunier

Course Code: Title	GIS411: RESEARCH PROJECT/PRESENTATION II
Program Number: Name	4018: GIS-APPLICATION SPEC
Department:	GEOGRAPHIC INFORMATION SYSTEMS
Semester/Term:	18W
Course Description:	Projects form the foundation of modern-day business and research. In this course students develop project management, oral presentation, and report writing skills by completing a GIS, remote sensing or GPS project with a sponsoring organization. Through working on these projects, students learn how to plan, develop and undertake a real-world GIS project and get a glimpse of what lies ahead when working in industry.
Total Credits:	5
Hours/Week:	3
Total Hours:	36
Prerequisites:	GIS406
Vocational Learning Outcomes (VLO's): Please refer to program web page for a complete listing of program outcomes where applicable.	<p>4018 - GIS-APPLICATION SPEC</p> <p>#1. Understand the general concepts of spatial information and the current methodologies used to input, store, manipulate, and retrieve this type of data in a computer based environment;</p> <p>#2. Understand the typical data structures, algorithms, and computational problems that are encountered in various GIS technologies;</p> <p>#3. Be aware of the variety of sources of spatial data, such as surveying and remote sensing, that feed into a GIS, and the methods by which these data are realized in a GIS system;</p> <p>#4. Understand the ways in which GIS technologies can be applied within specific disciplines (see assumption above), and the advantages, changes in method, developmental problems, and restructuring that may result from the adoption of these technologies;</p> <p>#6. Be aware of the issues surrounding the communication of data extracted from a GIS to a variety of potential end users;</p> <p>#7. Be capable of generating a plan for the design, implementation, and operation of a proposed GIS systems for a typical industrial client or group, and executing this plan as a demonstration project.</p>
Essential Employability Skills (EES):	<p>#1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</p> <p>#2. Respond to written, spoken, or visual messages in a manner that ensures effective</p>

- communication.
- #3. Execute mathematical operations accurately.
 - #4. Apply a systematic approach to solve problems.
 - #5. Use a variety of thinking skills to anticipate and solve problems.
 - #6. Locate, select, organize, and document information using appropriate technology and information systems.
 - #7. Analyze, evaluate, and apply relevant information from a variety of sources.
 - #8. Show respect for the diverse opinions, values, belief systems, and contributions of others.
 - #9. Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.
 - #10. Manage the use of time and other resources to complete projects.
 - #11. Take responsibility for ones own actions, decisions, and consequences.

Course Evaluation:

Passing Grade: 50%, D

Other Course Evaluation & Assessment Requirements:

Grade
 Definition Grade Point Equivalent
 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.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Assignments	75%
Presentation	15%
Sponsor Feedback	10%

Course Outcomes and Learning Objectives:

Course Outcome 1.

1. Demonstrate the ability to be able to work through a GIS project from initiation to completion and efficiently present the findings.

Learning Objectives 1.

- 1.1 Perform project management on a longer term project.
- 1.2 Create status reports and final project reports describing project findings.
- 1.3 Perform project scope and time adjustments as determined by the project sponsor.
- 1.4 Orally present project findings by way of a formal presentation.

Course Outcome 2.

2. Create a Gantt chart using Microsoft Project software.

Learning Objectives 2.

- 2.1 Explain the need for project management charts.
- 2.2 Identify appropriate tasks, subtasks, timing and resource assignment through the medium of a Gantt chart.

Course Outcome 3.

- 3. Demonstrate the ability to create a job-specific resume and cover letter to be used in the job applications process.

Learning Objectives 3.

- 3.1 Identify the importance of using keywords when creating resumes and cover letters.
- 3.2 Recognize and apply important items of inclusion when creating job ad-specific applications.
- 3.3 Identify important inclusions and exclusions to consider during the job application process.

Date:

Friday, January 19, 2018

Please refer to the course outline addendum on the Learning Management System for further information.