



## COURSE OUTLINE: GIS440 - FIELD PLACEMENT

Prepared: Heath Bishop

Approved: Corey Meunier, Chair, Technology and Skilled Trades

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| <b>Course Code: Title</b>                                                                                                                                                  | GIS440: FIELD PLACEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Program Number: Name</b>                                                                                                                                                | 4018: GIS-APPLICATION SPEC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Department:</b>                                                                                                                                                         | GEOGRAPHIC INFORMATION SYSTEMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Semesters/Terms:</b>                                                                                                                                                    | 20W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Course Description:</b>                                                                                                                                                 | This is a four-week full-time field placement in a GIS workplace. Students are provided with an opportunity to request location and the type of work (Natural Resources, Municipal, Health, etc.) they will be doing. This placement provides an opportunity to work next to experienced GIS practitioners in government, industry, consulting firms, municipalities, utilities or in other specialized organizations with GIS departments. This course can lead to employment opportunities either in the host organization or through contacts made during the placement.                                                                                                                                                                                                                      |
| <b>Total Credits:</b>                                                                                                                                                      | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Hours/Week:</b>                                                                                                                                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Total Hours:</b>                                                                                                                                                        | 140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Prerequisites:</b>                                                                                                                                                      | CSD105, GIS403, GIS406, GIS422, GIS426, GIS429                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Corequisites:</b>                                                                                                                                                       | There are no co-requisites for this course.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Vocational Learning Outcomes (VLO's) addressed in this course:</b><br><br>Please refer to program web page for a complete listing of program outcomes where applicable. | <b>4018 - GIS-APPLICATION SPEC</b><br><br>VLO 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;<br><br>VLO 2 Understand the typical data structures, algorithms, and computational problems that are encountered in various GIS technologies;<br><br>VLO 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;<br><br>VLO 6 Be aware of the issues surrounding the communication of data extracted from a GIS to a variety of potential end users; |
| <b>Essential Employability Skills (EES) addressed in this course:</b>                                                                                                      | EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.<br>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.<br>EES 3 Execute mathematical operations accurately.<br>EES 4 Apply a systematic approach to solve problems.<br>EES 5 Use a variety of thinking skills to anticipate and solve problems.<br>EES 6 Locate, select, organize, and document information using appropriate technology and information systems.<br>EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.                                                                                                                             |



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|                                                                                                         | <p>EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others.</p> <p>EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.</p> <p>EES 10 Manage the use of time and other resources to complete projects.</p> <p>EES 11 Take responsibility for ones own actions, decisions, and consequences.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                                          |                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                                          |                                                                                                         |                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Course Evaluation:</b>                                                                               | Passing Grade: 60%, C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |                                          |                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                                          |                                                                                                         |                                                                                                                                                                                                                                                                                                                               |
| <b>Other Course Evaluation &amp; Assessment Requirements:</b>                                           | <p>Please note: Each of the Field Placement employer evaluation and Log components must be satisfactorily completed (minimum 60% each) for a passing grade to be assigned in this course.</p> <p>Grade<br/>Definition Grade Point Equivalent<br/>A+ 90 - 100% 4.00<br/>A 80 - 89%<br/>B 70 - 79% 3.00<br/>C 60 - 69% 2.00<br/>D 50 - 59% 1.00<br/>F (Fail) 49% and below 0.00</p> <p>CR (Credit) Credit for diploma requirements has been awarded.<br/>S Satisfactory achievement in field /clinical placement or non-graded subject area.<br/>U Unsatisfactory achievement in field/clinical placement or non-graded subject area.<br/>X A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.<br/>NR Grade not reported to Registrar's office.<br/>W Student has withdrawn from the course without academic penalty.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                                          |                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                                          |                                                                                                         |                                                                                                                                                                                                                                                                                                                               |
| <b>Course Outcomes and Learning Objectives:</b>                                                         | <table border="1"> <thead> <tr> <th>Course Outcome 1</th><th>Learning Objectives for Course Outcome 1</th></tr> </thead> <tbody> <tr> <td>1. Demonstrate successful integration and performance in a GIS operational work setting.</td><td>           1.1 Demonstrate the ability to perform pre-placement communication by arranging placement specifications (i.e. start date and time, etc.).<br/>           1.2 Show professional work ethic while working full time hours.<br/>           1.3 Utilize the opportunity for networking to ideally obtain an associated job after the placement is completed.<br/>           1.4 Discuss and learn from the supervisor's performance evaluation at the end of the work placement.         </td></tr> <tr> <th>Course Outcome 2</th><th>Learning Objectives for Course Outcome 2</th></tr> <tr> <td>2. Appraise the work done during placement through reflection and documentation of the tasks performed.</td><td>           2.1 Explain the tasks performed during the week.<br/>           2.2 Describe any tasks that required knowledge not covered during academic year.<br/>           2.3 Describe tasks which utilized skills gained throughout the academic year.<br/>           2.4 Discuss new learning moments in terms of professionalism that were experienced in the workplace.         </td></tr> </tbody> </table> | Course Outcome 1 | Learning Objectives for Course Outcome 1 | 1. Demonstrate successful integration and performance in a GIS operational work setting. | 1.1 Demonstrate the ability to perform pre-placement communication by arranging placement specifications (i.e. start date and time, etc.).<br>1.2 Show professional work ethic while working full time hours.<br>1.3 Utilize the opportunity for networking to ideally obtain an associated job after the placement is completed.<br>1.4 Discuss and learn from the supervisor's performance evaluation at the end of the work placement. | Course Outcome 2 | Learning Objectives for Course Outcome 2 | 2. Appraise the work done during placement through reflection and documentation of the tasks performed. | 2.1 Explain the tasks performed during the week.<br>2.2 Describe any tasks that required knowledge not covered during academic year.<br>2.3 Describe tasks which utilized skills gained throughout the academic year.<br>2.4 Discuss new learning moments in terms of professionalism that were experienced in the workplace. |
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| <b>Evaluation Process and Grading System:</b>                                                           | <table border="1"> <thead> <tr> <th>Evaluation Type</th><th>Evaluation Weight</th></tr> </thead> <tbody> <tr> <td>Employer Evaluation</td><td>70%</td></tr> <tr> <td>Weekly Logs</td><td>30%</td></tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Evaluation Type  | Evaluation Weight                        | Employer Evaluation                                                                      | 70%                                                                                                                                                                                                                                                                                                                                                                                                                                       | Weekly Logs      | 30%                                      |                                                                                                         |                                                                                                                                                                                                                                                                                                                               |
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| Employer Evaluation                                                                                     | 70%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                          |                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                                          |                                                                                                         |                                                                                                                                                                                                                                                                                                                               |
| Weekly Logs                                                                                             | 30%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                          |                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                                          |                                                                                                         |                                                                                                                                                                                                                                                                                                                               |



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| <b>Date:</b> | August 29, 2019 |
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| <b>Addendum:</b> | Please refer to the course outline addendum on the Learning Management System for further information. |
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