

## Annual Academic Program Assessment Report and Plan

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|--------------------------------------|---|
| <b>Academic Program:</b>             | AAS Geographic Information Systems<br>CP Geographic Information Systems   |
| <b>Academic Program Division:</b>    | Science, Mathematics and Engineering (SME)  |
| <b>Program Responsible Person:</b>   | Chris Ryan  |
| <b>Assessment Team Member/s:</b>     | Chris Ryan<br>Amy Kadelski  |
| <b>Date Submitted:</b>               | May 19, 2009  |
| <b>College Strategic Plan Goals:</b> | <ol style="list-style-type: none"> <li>1. Improve student success in program completion and graduation rates.</li> <li>2. Ensure institutional excellence in teaching, programs and services.</li> <li>3. Embrace our college's many communities and respond to their diverse needs.</li> </ol>   |
| <b>Division Mission:</b>             | <p><b>Division Mission:</b><br/>The mission of the Science, Mathematics &amp; Engineering division is:</p> <ul style="list-style-type: none"> <li>• To prepare students to succeed in college-level science, math and engineering courses.</li> <li>• To prepare students to transfer to 4-year colleges.</li> <li>• To provide students with the knowledge they need in their careers.</li> <li>• To provide students with opportunities for personal enrichment.</li> </ul> |
| <b>Program Mission:</b>              | The Associate of Applied Science degree in Geographic Information Systems (GIS) will provide employment-related knowledge and skills necessary to succeed in the Geographic Information Systems field. The degree will meet educational criteria for employment and prepare the student for possible transfer to other colleges and universities to meet higher educational and professional goals.   |

This form allows all groups engaged in the on-going assessment process at WNC to document their assessment activities. The form includes a report on the previous year's assessment project and a plan for the coming year's project. Those responsible for annual assessment of academic programs are required to complete an assessment of at least one program outcome or student learning outcome each year but may assess more than one outcome if they choose. (Copy and paste the tables if more than one outcome is assessed.)

Completed assessment reports/plans are to be electronically submitted to Catherine Boedenauer in IR ([boedenau@wnc.edu](mailto:boedenau@wnc.edu)) by May 15 every year for posting on the assessment Web site.

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## Assessment Report Academic Year: 2008-2009

### Outcome #1

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| <b>Program Goal:</b>                                     | The program needed to incorporate GPS into the GIS curriculum.  |
| <b>Outcome:</b>  | Students enrolled in the GIS courses were introduced to the use of a GPS unit to create spatial data in a GIS.  |
| <b>Assessment Methods Used and Criteria for Success:</b> | Assessment methods used was a three-part assignment where students went into the field and captured way-points and brought them into the GIS lab and created a spatial layer of data. |
| <b>Summary of Results and Conclusions Drawn:</b>         | Students were successful in completing the assignment and were able to incorporate the newly created layer into an existing GIS project.  |
| <b>Use of Results:</b>                                   | Results were shared with students and also used for instructor assessment of curriculum.  |

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## Assessment Plan Academic Year: 2009-2010

### Outcome #1

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|---|--|
| <b>Program Goal:</b>                                | The GIS program will add the use of Coordinated Geometry (COGO) into its curriculum. The skill is required in order to incorporate surveyed data into a GIS. |
| <b>Outcome:</b>                                     | COGO will be developed and will be incorporated into the 200 level GIS courses.  |
| <b>Assessment Methods and Criteria for Success:</b> | Criteria for success would be the inclusion of a project designed using COGO into each of the 200 level GIS courses.   |
| <b>Planned Use of Results:</b>                      | Results will be shared with students on their successful application of COGO and be used as an assessment tool for instructors.                              |