**Date** 2013-14 **Name of Administrative or Educational t Unit:** \_\_Geospatial Information Systems (GIS)\_\_\_\_\_

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**Mission:**

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| The Geospatial Information Science (GIS) program teaches the use of hardware, software, and data to analyze and display location-based information. GIS prepares students to visualize information in a form that aids the decision-making process and supports solving spatial problems in business, government, environmental studies, and geological studies. Students learn to present the information in a way that is easy to understand and interpret. GIS specialties include remote sensing, geospatial intelligence, image analysis, planning, and location information management . |

**PART I: Might not change from year to year**

| A. Outcomes(s)  Results expected in this department/program | B. Measure(s)  The instrument or process used to measure results | C. Target(s) The level of success expected |
| --- | --- | --- |
| 1 Obtain spatial data from available sources, process and geo-reference that data using appropriate GIS software, and create map layouts meeting current industry standards. | Scoring Checklist #1 | Score ≥ 90  Exceeds Expectations  70 ≤ Score < 90  Meets Expectations  Score < 70  Does not meet expectations |
| 2 Obtain imagery data from available sources, process and geo-reference that data using appropriate image processing software, correctly analyze the raster data using queries, and present the results of the analysis in a map layout meeting current industry standards. | Scoring Checklist #2 | Score ≥ 90  Exceeds Expectations  70 ≤ Score < 90  Meets Expectations  Score < 70  Does not meet expectations |
| 3 Use problem solving techniques to complete a major GIS project that demonstrates all GIS and image processing skills acquired, produce a quality GIS report fully illustrated with appropriate maps, and present the results to a group of peers, instructors, and/or industry professionals. | Scoring Checklist #3 | Score ≥ 90  Exceeds Expectations  70 ≤ Score < 90  Meets Expectations  Score < 70  Does not meet expectations |

**PART II: For academic year (enter year i.e. 2011-12)**

**From Part I**

| A. Outcomes(s)  Results expected in this department/program | D. Action Plan Years 5 & 2  Based on analysis of previous assessment, create an action plan and include it here in the row of the outcomes(s) it addresses. | E. Implement Action Plan  Years 1 & 3  Implement the action plan and collect data | F. Data Results Summary  Years 2 & 4  Summarize the data collected | G. Findings  Years 2 & 4  What does data say about outcome? |
| --- | --- | --- | --- | --- |
| 1 Obtain spatial data from available sources, process and geo-reference that data using appropriate GIS software, and create map layouts meeting current industry standards. | 2011-12: A new Program curriculum adding raster-based skills to vector skills received state, SACSCOC & federal approvals. | Implement the action plan and collect data | 2010-11: Old specialization program appended to Computer Systems was closed. Current students were supported to completion. New students were transitioned to proficiency in GIS and image processing skills in both vector and raster. | Benchmark data established for SLO#1 dealing with vector data. |
| 2 Obtain imagery data from available sources, process and geo-reference that data using appropriate image processing software, correctly analyze the raster data using queries, and present the results of the analysis in a map layout meeting current industry standards. | 2013-14: Enrollment growth plan implemented. Students taking the capstone course (GISC 2231) under the new CIP will have successfully completed two additional courses:   * GISC 1421, Introduction to Raster-Based Geographic Information Systems * GISC 2402, Geographic Information Systems Design with Raster Analysis   In addition, the capstone course (GISC 2231) projects will test students equally on vector data and raster data. Students completing the GIS Program will demonstrate proficiency on all three program SLOs, rather than just #1. | Implement the action plan and collect data | 2012-13: Benchmark data collected for SLO #2 dealing with raster data. | 2012-13: Benchmark data established for SLO #2 dealing with raster data |
| 3 Use problem solving techniques to complete a major GIS project that demonstrates all GIS and image processing skills acquired, produce a quality GIS report fully illustrated with appropriate maps, and present the results to a group of peers, instructors, and/or industry professionals. | 2010-11: Old specialization program appended to Computer Systems was closed. Current students were supported to completion. | Implement the action plan and collect data | Transition students were supported to completion; 12 completers. | New students were transitioned to proficiency in GIS and image processing skills in both vector and raster. |