**Continuous Improvement Plan**

**Date:** August 31, 2023 **Name of Program/Unit: Geospatial Information Science**

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**Table 1: CIP Outcomes, Measures & Targets Table (focus on at least one for the next two years)**

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| **A. Expected Outcome(s)**  Results expected in this unit  (e.g. Authorization requests will be completed more quickly; Increase client satisfaction with our services) | **B. Measure(s)**  Instrument(s)/process(es) used to measure results  (e.g. survey results, exam questions, etc.)  Include Course Information and Semester in which assessment will occur | **C. Target(s)**  Level of success expected  (e.g. 80% approval rating, 10 day faster request turn-around time, etc.) |
| Apply cartographic principles to create maps and reports using Geographic Information Systems (GIS) technology. | GISC 1411 Intro to GIS: Ch. 10d Exercise | Grade averages to be at or above 75%. |
| Students will be able to acquire and analyze spatial and attribute data utilized in a Geographic Information System (GIS). | GISC 1411 Intro to GIS: Ch. 7c exercise | Grade averages to be at or above 75%. |
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**Description of Fields in the Following CIP Tables:**

**A. Outcome(s)** -Results expected in this program (e.g. Students will learn how to compare/contrast conflict and structural functional theories; increase student retention in Nursing Program).

**B. Measure(s)** -Instrument(s)/process(es) used to measure results

(e.g. results of surveys, test item questions 6 & 7 from final exam, end of term retention rates, etc.)

**C. Target(s)** -Degree of success expected (e.g. 80% approval rating, 25 graduates per year, increase retention by 2% etc.).

**D. Action Plan** -Based on analysis, identify actions to be taken to accomplish outcome. What will you do?

**E. Results Summary** - Summarize the information and data collected in year 1.

**F. Findings** - Explain how the information and data has impacted the expected outcome and program success.

**G. Implementation of Findings** – Describe how you have used or will use your findings and analysis of the data to make improvements.

**Table 2. CIP Outcomes 1 & 2 (FOCUS ON AT LEAST 1)**

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| 1. **Outcome #1** Apply cartographic principles to create maps and reports using Geographic Information Systems (GIS) technology. | |
| 1. **Measure (Outcome #1)**   GISC 1411 Intro to GIS: Ch. 10d Exercise | 1. **Target (Outcome #1)**   Grade averages to be at or above 75%. |
| 1. **Action Plan (Outcome #1)**   Beginning Fall 2023, due to publisher issues, GISC 1411 is no longer in the First Day textbook program. Faculty will continue to monitor and revise classes as necessary to engage students early on if they’re not submitting assignments. | |
| 1. **Results Summary (Outcome #1)**   Beginning Fall 2022 through Summer of 2023, a total of three (3) sections of GISC 1411 have been taught.  Based on the data collected, 72.7% of students (40 out of 55) have earned a score of 75% or higher on Ex. 10d. | |
| 1. **Findings (Outcome #1)**   Overall student performance is below the expected target of 75%. The Spring 2023 semester saw a decrease in student assignment submissions, resulting in a higher number of 0% grades, although Ex. 10d (which is later in the semester), had more submissions than Ex. 7c.  This was also the first semester to utilize the First Day textbook program for this course. Some student feedback was that having a digital textbook made it more difficult to “go back and forth” between the textbook and the ArcGIS Pro software.  GISC 1411 has historically seen a higher percentage of students that fail to turn in work throughout the semester than other GISC courses, which has been attributed to other non-GIS students taking this as an elective. | |
| 1. **Implementation of Findings**   Through early engagement, instruction, continuous review, and practice activities, faculty will work to ensure that the specified level of performance is achieved. | |

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| 1. **Outcome #2** Students will be able to acquire and analyze spatial and attribute data utilized in a Geographic Information System (GIS). | |
| 1. **Measure (Outcome #2)**   GISC 1411 Intro to GIS: Ch. 7c exercise | 1. **Target (Outcome #2)**   Grade averages to be at or above 75%. |
| 1. **Action Plan (Outcome #2)**   Beginning Fall 2023, due to publisher issues, GISC 1411 is no longer in the First Day textbook program. Faculty will continue to monitor and revise classes as necessary to engage students early on if they’re not submitting assignments. | |
| 1. **Results Summary (Outcome #2)**   Beginning Fall 2022 through Summer of 2023, a total of three (3) sections of GISC 1411 have been taught.  Based on the data collected, 60% of students (33 out of 55) have earned a score of 75% or higher on Ex. 7c. | |
| 1. **Findings (Outcome #1)**   Overall student performance is below the expected target of 75%. The Spring 2023 semester saw a decrease in student assignment submissions, resulting in a higher number of 0% grades.  This was also the first semester to utilize the First Day textbook program for this course. Some student feedback was that having a digital textbook made it more difficult to “go back and forth” between the textbook and the ArcGIS Pro software.  GISC 1411 has historically seen a higher percentage of students that fail to turn in work throughout the semester than other GISC courses, which has been attributed to other non-GIS students taking this as an elective. | |
| 1. **Implementation of Findings**   Through early engagement, instruction, continuous review, and practice activities, faculty will work to ensure that the specified level of performance is achieved. | |