Geospatial Applications, Undergraduate Certificate

Goal 1: Provide students with appropriate credentials for workforce readiness

Goal Description:

To provide students with fundamental understanding of the of Geographic Information Systems and its various applications in the workforce.

Providing Department: Geospatial Applications, Undergraduate Certificate

Progress: Draft

RELATED ITEMS/ELEMENTS -----

RELATED ITEM LEVEL 1

Goal 1 Learning Objective 1: Proficiency in GIS applications Learning Objective Description:

Students will demonstrate basic skills and competencies of GIS professionals including the fundamentals of GIS software.

RELATED ITEM LEVEL 2

Learning Objective 1: Concepts related to GIS software Indicator Description:

Students in the certificate program should score 70% or better in GEOG 2464 (Intro to Geographic Information Systems).

Criterion Description:

We expect 80% of students to have a 70% or higher in GEOG 2464 over a three year running average

Findings Description:

There are very few students (<3) in the certificate program who have completed this metric. This is an new program and we do not have three years of data.

RELATED ITEM LEVEL 3

Action - Concepts related to GIS software Action Description:

We are reassessing the GIS curriculum to align it more closely with workforce standards, including in terms of the latest software needs required. The graduate program in Applied GIS is undergoing an official external review in 2024-2025. While this process will focus most directly on the graduate program, discussions will address workplace needs in regards to the application and use of up-to-date software. We fully anticipate that these discussions will, by default, provide considerable insight in how to best redesign the software needs associated with our undergraduate offerings of geospatial technology.

RELATED ITEM LEVEL 1

Goal 1 Learning Objective 2: Profeciency in Computer Cartography Learning Objective Description:

Students will demonstrate the fundamentals of thematic mapping, data measurement and analysis, map design, and other cartographic concepts.

RELATED ITEM LEVEL 2

Learning Objective 2: Computer Cartography Indicator Description: Students in the certificate program should score 70% or better in GEOG 3363 (Computer Cartography)

Criterion Description:

Seventy percent of students will obtain a 80% or higher grade in GEOG 3363 over a three year running average

Findings Description:

This is a new certificate with few (<4) students enrolled. We do not have three years of data. Students enrolled in GEOG 3363 and the certificate program met learning objective 2.

RELATED ITEM LEVEL 3

Action - Computer Cartography

Action Description:

We are reassessing the GIS curriculum to align it more closely with workforce standards. The graduate program in Applied GIS is undergoing an official external review in 2024-2025. While this process will focus most directly on the graduate program, discussions will address workplace needs in regards to the computer applications of cartographic principles. We fully anticipate that these discussions will, by default, provide considerable insight in how to best redesign the undergraduate offerings of geospatial technology.

New Update to Previous Cycle's Plan for Continuous Improvement Item

Previous Cycle's Plan For Continuous Improvement (Do Not Modify):

This is a new unit for the 2023-2024 cycle. No previous PCI available.

Update of Progress to the Previous Cycle's PCI:

This is a new unit for the 2023-2024 cycle. No previous PCI available.

New Plan for Continuous Improvement Item

Closing Summary:

This is a new certificate program, although most of the courses have been offered in the past to some degree. Going forward we will are assessing this certificate program to ensure that it aligns with contemporary workforce standards. The graduate program in Applied GIS is undergoing an official external review in 2024-2025. While this process will focus most directly on the graduate program, discussions will address workplace needs that would be applicable to a undergraduate certificate.. We fully anticipate that these discussions will, by default, provide considerable insight in how to best redesign the undergraduate offerings of geospatial technology.