

All changes are effective Fall 2022, unless otherwise noted.

Academic Affairs *(moved and seconded in committee)*

Proposal for change(s) in an undergraduate program:

COLLEGE OF EDUCATION & SOCIAL SCIENCES

1. Department of Anthropology and Geography

a. Geospatial Technologies Certificate (Form B – ID# 322)

Geospatial Technologies Certificate (~~Distance Learning~~)

A ~~distance learning~~ certificate in geospatial technologies is designed to give students a broad understanding of the geographic concepts that underpin geographic information systems (GIS) and related geospatial technologies, as well as develop practical skills in utilizing these technologies to address applications in a wide range of disciplines and domain areas. As a skills based certificate, this program will focus on both ‘software knowledge’ and fundamental concepts related to spatial thinking and geographic information, and provide training in the tools and techniques required to utilize GIS and geospatial technologies in professional settings.

Student Learning Outcomes

The main objective of this certificate program is to enable students to develop a broad understanding of the concepts and applications of GIS and related geospatial technologies, and develop practical skill sets for the use of geospatial technologies in a wide range of fields. Following the completion of introductory courses, students will be able to explore selected advanced topics related to GIS and geospatial technologies in a number of disciplines. Students who undertake this certificate will:

1. Explore geographic concepts and spatial thinking skills that are a core of geography and

- geospatial technologies.
2. Explore the concepts and methods of maps and mapmaking, especially digital cartography.
 3. Develop practical skills in designing and producing informative digital maps and other visualizations of geographic information.
 4. Develop practical skills in the utilization of GIS and geospatial technologies in selected fields.
 5. Students who complete the distance learning certificate in geographic information Systems will be able to:
 6. Understand and explain the basic geographic and spatial concepts that underpin GIS and other geospatial technologies.
 7. Explain and critique digital mapping techniques and how they present geographic information.
 8. Apply practical digital cartography skills and knowledge to create well-designed and informative maps and other visualizations of geographic information.
 9. Understand and explain the theories and concepts that underpin GIS and geospatial technologies.
 10. Apply practical GIS and geospatial technology skills to applications within selected fields.

Program Requirements

GIS Core Foundation Requirements (6 Credits)

Complete the following courses:

- GEOG 200 - Digital Earth (3 credits)
- GEOG 204 - Introduction to Geographic Information Systems GIS (3 credits)

GIS Methods Electives (6 Credits)

Choose two from the following:

- GEOG 310 - Digital Cartography (3 credits)
- GEOG 311 Q - Earth Observation (3 credits)
- GEOG 312 - Spatial Analysis Using GIS (3 credits)
- **GEOG 316 – GIS for Government (3 credits)**
- GEOG 399 - Independent Study (1 to 6 credits)
- GEOG 400 - Geospatial Intelligence (3 credits)
- **GEOG 456 Q – Video Game Worlds (3 credits)**

Total Credits Required: 12 Credits

Academic Affairs (moved and seconded in committee)

Proposals for new undergraduate courses:

COLLEGE OF SCIENCE

1. Department of Marine Science

a. **MSCI 487L – Selected Topics in Marine Science Laboratory** (Form C – ID# 363)

Proposed catalog description: MSCI 487L - Special Topics in Marine Science Laboratory (1 credit) (Prereq: Permission of the instructor) (Coreq: MSCI 487) The laboratory demonstrates principles and topics presented in lecture. Offered as needed.

Course Prefix/Number: MSCI 487L

Course Title: Special Topics in Marine Science Laboratory

Primary Goal: This course may be taken as an elective

Repeatable for Credit: No

Course Equivalencies: None

Pass/Fail Grading: No

Prerequisite(s): Permission of the instructor

Corequisite(s): MSCI 487

Number of credits: 1 credit

Cross-listing(s): None

Course Restriction(s): None

Estimated enrollment: 20

Prior enrollment in course: n/a

Method of delivery: Lab

Semester(s) offered: Offered as needed

Considered for the Core Curriculum: No

Academic Affairs (moved and seconded in committee)

Proposals for change(s) in, restoration of, or removal of undergraduate courses:

COLLEGE OF EDUCATION AND SOCIAL SCIENCES

1. Department of Graduate and Specialty Studies

a. **EDPE 412 – High School Physical Education Pedagogy**

Proposed revision(s): Other Course Change (Form A – ID# 355)

Course Action(s): Change to corequisites: **FROM:** EDPE 305 and EDPE 320 **TO:** EDPE 320

Proposed catalog description:

EDPE 412 - High School Physical Education Pedagogy (4 credits) (Prereq: Admission to the Professional Program in Teacher Education and EDPE 411Q) (Coreq: EDPE 320) Foundations and practices in teaching high school physical education. Course studies the development and assessment of motor and fitness skills for late adolescent students, curriculum development, and planning and implementing instruction at the high school level. The teacher candidate also develops pedagogical skills through self-assessments and the required 30 hour field experience in the high schools. F.