



DEPARTMENT
OF
EARTH,
ENVIRONMENTAL AND
GEOGRAPHICAL
SCIENCES

WINTER 2024
ADVISING
FOR
SUMMER 2024
REGISTRATION

WELCOME PROSPECTIVE, CURRENT, AND GRADUATING EEGS STUDENTS

DEPARTMENT MISSION

We prepare students for their future careers by cultivating critical thinking and science-based inquiry skills. Students develop foundations in earth, environmental, and geographical sciences to analyze local and global issues challenging the human-environment relationship. EEGS faculty members engage in active research, professional development, and service to enhance quality teaching and provide an interdisciplinary curriculum.





GC 100

**PHYSICAL
GEOGRAPHY**

Dr. Adam T. Naito

**Part of the
core of**

**EART ENSS
ENV GIST**

COURSE DESCRIPTION

This course examines interactions between the atmosphere, the Earth's surface, water, and living things, as well as the role of humans in those interactions. Students will be able to explain the processes that drive Earth's seasons, weather, climates, biomes, and landforms, and how they are impacted by human activities. Students will learn how to develop research questions, collect data, and produce and interpret graphs, maps, and figures relating to major geographic patterns and their processes.

Satisfies: Scientific Inquiry (SCII) General Education requirement.

Prerequisites: none



50: ONLINE ASYNCHRONOUS

52: ONLINE ASYNCHRONOUS



GC 100

**PHYSICAL
GEOGRAPHY**

Dr. Norma Froelich

**Part of the
core of**

**EART ENSS
ENV GIST**

COURSE DESCRIPTION

This course examines interactions between the atmosphere, the Earth's surface, water, and living things, as well as the role of humans in those interactions. Students will be able to explain the processes that drive Earth's seasons, weather, climates, biomes, and landforms, and how they are impacted by human activities. Students will learn how to develop research questions, collect data, and produce and interpret graphs, maps, and figures relating to major geographic patterns and their processes.

Satisfies: Scientific Inquiry (SCII) General Education requirement.

Prerequisites: none

51: ONLINE ASYNCHRONOUS

53: ONLINE ASYNCHRONOUS





GC 164

HUMAN GEOGRAPHY

Dr. Weronika Kusek

Part of the
core of

ENSS

COURSE DESCRIPTION

Human Geography introduces students to the systematic study of locations, patterns, and processes that shape human understanding, use, and alteration of Earth's surface and their environments. Students will explore human activities around the world and in their own environments. They will explain how people affect places, how places affect people, and how geography impacts aspects of their daily lives. Students will also learn about the methods and tools geographers use in their research and practice.

Satisfies: Social Responsibility in a Diverse World (SOCR) and World Cultures (WC) General Education requirements.

Prerequisites: none

50: ONLINE ASYNCHRONOUS

52: ONLINE ASYNCHRONOUS





GC 164

HUMAN GEOGRAPHY

Dr. Jelili Adebisi

Part of the
core of

ENSS

COURSE DESCRIPTION

Human Geography introduces students to the systematic study of locations, patterns, and processes that shape human understanding, use, and alteration of Earth's surface and their environments. Students will explore human activities around the world and in their own environments. They will explain how people affect places, how places affect people, and how geography impacts aspects of their daily lives. Students will also learn about the methods and tools geographers use in their research and practice.

Satisfies: Social Responsibility in a Diverse World (SOCR) and World Cultures (WC) General Education requirements.

Prerequisites: none

51: ONLINE ASYNCHRONOUS

53: ONLINE ASYNCHRONOUS



NORTHERN MICHIGAN UNIVERSITY
ENVIRONMENTAL AND PROFESSIONAL ALLIANCE



906-227-2250



eegs@nmu.edu





GC 210

**EARTH
HAZARDS**

STAFF

Required for the
Natural Hazards
concentration of EART

Elective option for
Applied Geology
concentration of EART

Elective option for ENSS

Elective option for Natural Resources
concentration of ENV

COURSE DESCRIPTION

Earth Hazards introduces students to the interdisciplinary study of extreme events that naturally occur and cause harm to humans. This includes volcanoes, earthquakes, landslides, wildfires, floods, cyclones, tsunamis, and meteorite impacts. Students will be able to explain how earth processes drive these hazards, the methods scientists use to predict and assess the risk of these events, and the means by which individuals and societies respond and adapt to them.

Satisfies: Scientific Inquiry (SCII) General Education requirement.

Prerequisites: none



50: ONLINE ASYNCHRONOUS

51: ONLINE ASYNCHRONOUS

GC 235

QUANTITATIVE METHODS

Dr. Robert Legg

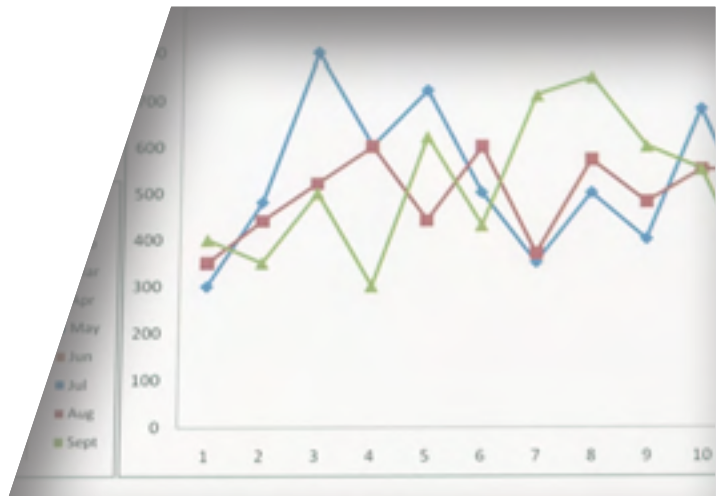
Part of the core of

EART ENV ENSS GIST

COURSE DESCRIPTION

This course introduces students to classic and spatial statistical concepts and techniques relevant to and used by environmental scientists, geographers, and geoscientists. Students will examine statistical concepts and methods and their theoretical underpinnings, and then apply their quantitative skills using computer-based tools and software. Students will assemble and analyze data sets and summarize their interpretations.

Prerequisites: DATA 109, or MA 111, or mathematics placement at MA 115 or higher.



50: ONLINE ASYNCHRONOUS



GC 320

**ENVIRONMENTAL
POLICY &
REGULATION**

Dr. Sarah Mittlefehldt

**Part of the
core of**

ENSS ENV

COURSE DESCRIPTION

This course introduces students to public policy and regulatory processes in the United States with a focus on federal and state involvement in environmental decision-making. Students will examine the history of environmental policy and relevant environmental laws. Students will also explore issues related to international environmental law with an emphasis on climate policy.

Prerequisites: GC 100 or GC 101 or junior standing



50: ONLINE ASYNCHRONOUS





GC 335

**GEOGRAPHIC
INFORMATION
SYSTEMS**

Dr. Robert Legg

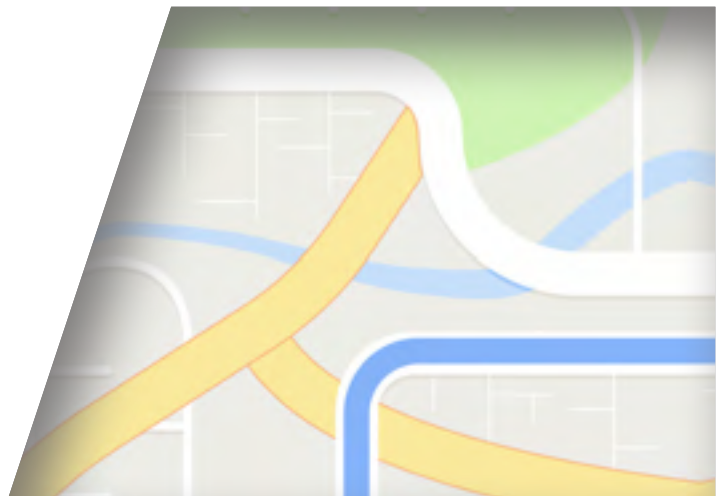
**Part of the
core of**

**EART ENSS
ENV GIST**

COURSE DESCRIPTION

This course introduces students and professionals to foundational ideas underpinning the growing field of Geographic Information Systems (GIS). Students will examine fundamental concepts related to the creation, management, analysis, and visualization of geographic information. Students will then apply these concepts using industry-standard software to assemble and analyze data, and develop visualizations to communicate, solve problems, and make decisions. These skills will prepare students for work in a variety of job sectors.

Prerequisites: GC 225 or junior standing or instructor permission



50: ONLINE ASYNCHRONOUS

