EAS E 131 OCEANS & OUR GLOBAL ENVIRONMENT
3 credits | Lecture 100% online course taught by IU Bloomington. No on-campus meetings are required.
Instructor: Simon Brassell
COLL (CASE) N&M credit
An introduction to oceanography integrating exploration of ocean basins and plate tectonics, seawater and seafloor sediments, ocean-atmospheric interactions and global climate, and coastal/marine ecology to build understanding of oceanographic processes complemented by on-line assignments that explore and interpret web-based data sets emphasizing ocean dynamics and the climatic and environmental importance of Earth’s oceans.

EAS E 188 THE EVOLVING EARTH: VOLCANOES OF THE EASTERN SIERRA NEVADAS
3 credits | Time: 5:45-7:00P Tuesday
Location: GY 230 | Instructor: Michael Hamburger
COLL (CASE) N&M Breadth of inquiry credit
Class is a 2-week field course in the Sierra Nevada Mountains of California followed by a 2-week independent study research period.

EAS X429 FIELD GEOLOGY IN THE ROCKY MOUNTAINS
6 credits | June 16-July 30, 2019
Location: IU Geologic Field Station in Cardwell, Montana
X429 is an immersive, hands-on, field geology course. It is designed to allow students to build and integrate diverse geoscience skills to solve 4-dimensional geologic problems. Projects range from outcrop scale to regional scale and cover most sub-disciplines of the geosciences.
EAS E 118 SUSTAINABILITY: WATER RESOURCES
3 credits | Time: 9:05-11:35A Monday & Wednesday
Location: GY 220 | Instructor: Chen Zhu
COLL (CASE) N&M credit
Students will become conversant on the topic of water resources as well as develop an understanding of the key concepts in sustainability and systems thinking.

EAS E 122 EARTH’S DYNAMIC ATMOSPHERE
3 credits | Time: 10:10-11:00A Monday & Wednesday
Location: GY 214 | Instructor: Paul Staten
COLL (CASE) N&M credit
Specialized and general students are introduced to atmospheric science through climate change science, atmospheric physics, atmosphere-ocean interactions, forecasting, and severe weather. Tools and techniques for analyzing atmospheric environments and assessment of climate impact are covered. Students will gain understanding of basic atmospheric properties and processes through rigorous critical thinking and problem solving.

EAS E 131 OCEANS & OUR GLOBAL ENVIRONMENT
3 credits | Lecture 100% online course taught by IU Bloomington. No on-campus meetings. Instructor: Simon Barrassell
COLL (CASE) N&M credit
An introduction to oceanography integrating exploration of ocean basins and plate tectonics, coastal/marine ecology to build understanding of oceanographic processes complemented by on-line assignments that explore and interpret web-based data sets emphasizing ocean dynamics and the climatic and environmental importance of Earth’s oceans.

Earth & its processes

EAS E 140 EVOLUTION OF THE EARTH
3 credits | Time: 9:15-11:35A Monday & Wednesday
Location: GY 126 | Instructor: Erika Elswick
COLL (CASE) N&M credit - Natural Science
A survey of events in Earth’s evolution relevant to contemporary environmental concerns.

EAS E 144 EXTREME WEATHER AND ITS IMPACT
3 credits | Time: 1:00 - 2:15P Tuesday & Thursday
Location: GY 126 | Instructor: Paul Staten
COLL (CASE) N&M credit
Introduces a range of natural disasters and extreme weather phenomena that span regions, seasons, and origins. Emphasizes the ingredients and causes of each phenomenon, as well as their physical and societal impacts.

EAS E 152 ATMOSPHERIC THERMODYNAMICS
3 credits | Time: 11:15A - 12:30P Tuesday & Thursday
Location: GY 210 | Instructor: Cody Kirkpatrick
COLL (CASE) N&M Breadth of Inquiry credit
Introduction to the processes that shape our planet, the composition and structure of Earth, and the erosion and deposition of sediments at the surface. Study of processes ranging from forces driving plate motion, fluid flow in and on the earth, crustal deformation and mountain building, erosion of source terrains, the transport system, and the depositional record.

EAS E 160 THE EVOLVING EARTH: VOLCANOES OF THE EASTERN SIERRA NEVADAS
3 credits | Time: 5:45-7:00P Tuesday
Location: GY 210 | Instructor: Michael Hamburger
COLL (CASE) N&M Breadth of Inquiry credit
Volcanic eruptions are among Earth's most spectacular and perilous events. This course examines the geology and history of the Sierra Nevada volcanic province.

EAS E 166 EARTH PROCESSES
3 credits | Time: 12:20-1:30P Monday, Wednesday, Friday
Location: GY 210 | Instructor: Kaj Johnson
COLL (CASE) N&M credit
Description: The course will address the evolutionary history of reef ecosystems through geologic time inclusive of reef composition and global distribution, modern reef development, conservation and management practices, and the persistence of the reef ecosystem through climate change scenarios. We will cover biologic, ecological, and geographic principles as they pertain to coral reef ecosystems.

EAS E 226 EARTH PROCESSES
3 credits | Time: 12:20-1:30P Monday, Wednesday, Friday
Location: GY 210 | Instructor: Kaj Johnson
COLL (CASE) N&M Breadth of Inquiry credit
Introduction to the processes that shape our planet, the composition and structure of Earth, and the erosion and deposition of sediments at the surface. Study of processes ranging from forces driving plate motion, fluid flow in and on the earth, crustal deformation and mountain building, erosion of source terrains, the transport system, and the depositional record.

EAS E 232 ATMOSPHERIC THERMODYNAMICS
3 credits | Time: 9:30-11:00A Monday & Wednesday
Location: GY 126 | Instructor: Brian Yanites
COLL (CASE) N&M credit
This is an introductory science course focused on Earth’s history interpreted over 5-billion years. It employs a deductive approach to build an understanding of the significance of rocks and fossils and reconstructing the origins of mountains, continents, ocean basins and life.

EAS E 247 TOPICS IN ATMOSPHERIC SCIENCES
3 credits | Time: 11:15A - 12:05P Monday, Wednesday, Friday
Location: GY 214 | Instructor: Cody Kirkpatrick
COLL (CASE) N&M Breadth of Inquiry credit
Analysis and prediction of synoptic scale weather systems, emphasizing the mid-latitudes. Other topics include severe weather and atmospheric/oceanic teleconnections.