

Earth and Environmental Sciences Courses: Summer 2024

EESC114001

Our Mobile Earth

O'Brien, Suzanne R

Summer 2024

This course will provide you with an introduction to the structure of Earth and the dynamic processes that continuously shape and remodel its surface. During class, we will discuss the formation and evolution of the oceans and continents within the framework of the modern theory of plate tectonics. The locations, causes and effects of earthquakes and volcanoes are presented. The dynamics within Earth which drive the tectonic plates are outlined.

Credits: 3

Room and Schedule: On-line Asynchronous

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Summer

Student Level: Undergraduate

Comments: None

Status: Offered

EESC114002

Our Mobile Earth

O'Brien, Suzanne R

Summer 2024

This course will provide you with an introduction to the structure of Earth and the dynamic processes that continuously shape and remodel its surface. During class, we will discuss the formation and evolution of the oceans and continents within the framework of the modern theory of plate tectonics. The locations, causes and effects of earthquakes and volcanoes are presented. The dynamics within Earth which drive the tectonic plates are outlined.

Credits: 3

Room and Schedule: On-line Asynchronous

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Summer

Student Level: Undergraduate

Comments: None

Status: Offered

EESC114003

Our Mobile Earth

O'Brien, Suzanne R

Summer 2024

This course will provide you with an introduction to the structure of Earth and the dynamic processes that continuously shape and remodel its surface. During class, we will discuss the formation and evolution of the oceans and continents within the framework of the modern theory of plate tectonics. The locations, causes and effects of earthquakes and volcanoes are presented. The dynamics within Earth which drive the tectonic plates are outlined.

Credits: 3

Room and Schedule: On-line Asynchronous

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Summer

Student Level: Undergraduate

Comments: None

Status: Offered

EESC116301

Environmental Issues and Resources

Galli, Kenneth G

Summer 2024

Hybrid Core Course includes three themes: (1) Intro to Environmental Geology, (2) How to write well and how to write field trip reports, (3) How to use Google Earth to understand Earth Materials and Processes. Learn about the major processes at work inside and on the surface of the earth. Learn to be a careful observer and to write succinct field trip reports, through two field trips and the writing of a field trip report. Each class is designed to examine the facts, historical background, and through in-class exercises, homework and field trips, provide experience in analyzing and solving real world problems associated with environmental issues, resources and sustainability. Demonstrations, videos, readings and several field trips underscore important concepts and applications and the importance of careful observation. Online Google Earth exercises, done remotely, will introduce the power of this geographic application to understand geology.

Credits: 3

Room and Schedule: On-line Asynchronous

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Summer

Student Level: Undergraduate

Comments: None

Status: Offered

EESC116302

Environmental Issues and Resources

Galli, Kenneth G

Summer 2024

Hybrid Core Course includes three themes: (1) Intro to Environmental Geology, (2) How to write well and how to write field trip reports, (3) How to use Google Earth to understand Earth Materials and Processes. Learn about the major processes at work inside and on the surface of the earth. Learn to be a careful observer and to write succinct field trip reports, through two field trips and the writing of a field trip report. Each class is designed to examine the facts, historical background, and through in-class exercises, homework and field trips, provide experience in analyzing and solving real world problems associated with environmental issues, resources and sustainability. Demonstrations, videos, readings and several field trips underscore important concepts and applications and the importance of careful observation. Online Google Earth exercises, done remotely, will introduce the power of this geographic application to understand geology.

Credits: 3

Room and Schedule: On-line Asynchronous

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Summer

Student Level: Undergraduate

Comments: None

Status: Offered

EESC116303

Environmental Issues and Resources

Galli, Kenneth G

Summer 2024

Hybrid Core Course includes three themes: (1) Intro to Environmental Geology, (2) How to write well and how to write field trip reports, (3) How to use Google Earth to understand Earth Materials and Processes. Learn about the major processes at work inside and on the surface of the earth. Learn to be a careful observer and to write succinct field trip reports, through two field trips and the writing of a field trip report. Each class is designed to examine the facts, historical background, and through in-class exercises, homework and field trips, provide experience in analyzing and solving real world problems associated with environmental issues, resources and sustainability. Demonstrations, videos, readings and several field trips underscore important concepts and applications and the importance of careful observation. Online Google Earth exercises, done remotely, will introduce the power of this geographic application to understand geology.

Credits: 3

Room and Schedule: On-line Asynchronous

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Summer

Student Level: Undergraduate

Comments: None

Status: Offered

Earth and Environmental Sciences Courses: Fall 2024

EESC113201

Exploring the Earth

Lamontagne, Anne

Fall 2024

The Earth is a dynamic planet that our species is clearly changing. A great challenge of the twenty-first century is to maintain the Earth's ability to support its growing human population. This course discusses the origin and materials of the Earth and the processes by which it has evolved. It is a first course for Geological Sciences majors and also provides a background for departmental majors and minors. EESC1132 is appropriate as a natural science core course for students interested in the Earth Sciences. The laboratory consists of in-class exercises, analysis of rocks, and a weekend field trip.

Credits: 4

Room and Schedule: Devlin Hall 10 TuTh 10:30AM-11:45AM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall

Student Level: Undergraduate

Comments: None

Status: Offered

EESC113202

Exploring the Earth

Lamontagne, Anne

Fall 2024

The Earth is a dynamic planet that our species is clearly changing. A great challenge of the twenty-first century is to maintain the Earth's ability to support its growing human population. This course discusses the origin and materials of the Earth and the processes by which it has evolved. It is a first course for Geological Sciences majors and also provides a background for departmental majors and minors. EESC1132 is appropriate as a natural science core course for students interested in the Earth Sciences. The laboratory consists of in-class exercises, analysis of rocks, and a weekend field trip.

Credits: 0

Room and Schedule: Devlin Hall 307 Tu 03:00PM-05:00PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall

Student Level: Undergraduate

Comments: None

Status: Offered

EESC113203

Exploring the Earth

Lamontagne, Anne

Fall 2024

The Earth is a dynamic planet that our species is clearly changing. A great challenge of the twenty-first century is to maintain the Earth's ability to support its growing human population. This course discusses the origin and materials of the Earth and the processes by which it has evolved. It is a first course for Geological Sciences majors and also provides a background for departmental majors and minors. EESC1132 is appropriate as a natural science core course for students interested in the Earth Sciences. The laboratory consists of in-class exercises, analysis of rocks, and a weekend field trip.

Credits: 0

Room and Schedule: Devlin Hall 307 Tu 05:30PM-07:30PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall

Student Level: Undergraduate

Comments: None

Status: Offered

EESC113204

Exploring the Earth

Lamontagne, Anne

Fall 2024

The Earth is a dynamic planet that our species is clearly changing. A great challenge of the twenty-first century is to maintain the Earth's ability to support its growing human population. This course discusses the origin and materials of the Earth and the processes by which it has evolved. It is a first course for Geological Sciences majors and also provides a background for departmental majors and minors. EESC1132 is appropriate as a natural science core course for students interested in the Earth Sciences. The laboratory consists of in-class exercises, analysis of rocks, and a weekend field trip.

Credits: 0

Room and Schedule: Devlin Hall 307 Th 03:00PM-05:00PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall

Student Level: Undergraduate

Comments: None

Status: Offered

EESC113205

Exploring the Earth

Lamontagne, Anne

Fall 2024

The Earth is a dynamic planet that our species is clearly changing. A great challenge of the twenty-first century is to maintain the Earth's ability to support its growing human population. This course discusses the origin and materials of the Earth and the processes by which it has evolved. It is a first course for Geological Sciences majors and also provides a background for departmental majors and minors. EESC1132 is appropriate as a natural science core course for students interested in the Earth Sciences. The laboratory consists of in-class exercises, analysis of rocks, and a weekend field trip.

Credits: 0

Room and Schedule: Devlin Hall 307 Th 05:30PM-07:30PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall

Student Level: Undergraduate

Comments: None

Status: Offered

EESC115001

Astronomy

Kuchar, Thomas A

Fall 2024

Astronomical observations and theories date back to the beginning of recorded history. The development of astronomy is closely tied to the growth of physics, mathematics, philosophy, and theology. Emphasis is on large-scale concepts and on how we know what we know about the stars, our galaxy, and the universe. The course covers these discoveries and ideas from the earliest days of astronomy to many of the recent, exciting advances.

Credits: 3

Room and Schedule: Devlin Hall 8 TuTh 03:00PM-04:15PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall

Student Level: Undergraduate

Comments: None

Status: Offered

EESC117001

Rivers and the Environment

Snyder, Noah P, PHD

Fall 2024

Scientific understanding of rivers is vital to address many of today's environmental challenges. Rivers transport and distribute water, sediment, nutrients, and contaminants throughout the landscape. They provide habitat and migration pathways for countless aquatic species. Rivers supply fresh water, power generation, and recreational opportunities to much of the world's human populations. We will learn about the geological, hydrological, and biological processes that are important to rivers and watersheds, and how knowledge of these processes aids our ability to manage, protect, and restore these systems.

Credits: 3

Room and Schedule: Fulton Hall 511 (Auditorium) MWF 11:00AM-11:50AM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall

Student Level: Undergraduate

Comments: None

Status: Offered

EESC118001

The Living Earth I

Lamontagne, Anne

Fall 2024

This core course provides a broad and modern presentation of the major topics and principles of Earth Science. The lectures will cover all the fundamental subjects of geology, with emphasis on earth materials such as minerals, rocks and internal and external Earth processes, with a brief overview of important aspects of Earth history. The labs will involve hands-on work studying minerals, igneous rocks, sedimentary rocks, metamorphic rocks, viscosity, weathering and running water, formation of ripples and sand dunes, plate tectonics, fossils, and earthquakes, in addition to a local field geology trip during lab time. Additional topics may be covered if time allows.

Credits: 4

Room and Schedule: Higgins Hall 310 TuTh 05:00PM-06:15PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall

Student Level: Undergraduate

Comments: None

Status: Offered

EESC118002

The Living Earth I

Lamontagne, Anne

Fall 2024

This core course provides a broad and modern presentation of the major topics and principles of Earth Science. The lectures will cover all the fundamental subjects of geology, with emphasis on earth materials such as minerals, rocks and internal and external Earth processes, with a brief overview of important aspects of Earth history. The labs will involve hands-on work studying minerals, igneous rocks, sedimentary rocks, metamorphic rocks, viscosity, weathering and running water, formation of ripples and sand dunes, plate tectonics, fossils, and earthquakes, in addition to a local field geology trip during lab time. Additional topics may be covered if time allows.

Credits: 0

Room and Schedule: Devlin Hall 307 M 03:00PM-05:00PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall

Student Level: Undergraduate

Comments: None

Status: Offered

EESC118003

The Living Earth I

Lamontagne, Anne

Fall 2024

This core course provides a broad and modern presentation of the major topics and principles of Earth Science. The lectures will cover all the fundamental subjects of geology, with emphasis on earth materials such as minerals, rocks and internal and external Earth processes, with a brief overview of important aspects of Earth history. The labs will involve hands-on work studying minerals, igneous rocks, sedimentary rocks, metamorphic rocks, viscosity, weathering and running water, formation of ripples and sand dunes, plate tectonics, fossils, and earthquakes, in addition to a local field geology trip during lab time. Additional topics may be covered if time allows.

Credits: 0

Room and Schedule: Devlin Hall 307 M 05:30PM-07:30PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall

Student Level: Undergraduate

Comments: None

Status: Offered

EESC118004

The Living Earth I

Lamontagne, Anne

Fall 2024

This core course provides a broad and modern presentation of the major topics and principles of Earth Science. The lectures will cover all the fundamental subjects of geology, with emphasis on earth materials such as minerals, rocks and internal and external Earth processes, with a brief overview of important aspects of Earth history. The labs will involve hands-on work studying minerals, igneous rocks, sedimentary rocks, metamorphic rocks, viscosity, weathering and running water, formation of ripples and sand dunes, plate tectonics, fossils, and earthquakes, in addition to a local field geology trip during lab time. Additional topics may be covered if time allows.

Credits: 0

Room and Schedule: Devlin Hall 307 W 03:00PM-05:00PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall

Student Level: Undergraduate

Comments: None

Status: Offered

EESC118005

The Living Earth I

Lamontagne, Anne

Fall 2024

This core course provides a broad and modern presentation of the major topics and principles of Earth Science. The lectures will cover all the fundamental subjects of geology, with emphasis on earth materials such as minerals, rocks and internal and external Earth processes, with a brief overview of important aspects of Earth history. The labs will involve hands-on work studying minerals, igneous rocks, sedimentary rocks, metamorphic rocks, viscosity, weathering and running water, formation of ripples and sand dunes, plate tectonics, fossils, and earthquakes, in addition to a local field geology trip during lab time. Additional topics may be covered if time allows.

Credits: 0

Room and Schedule: Devlin Hall 307 W 05:30PM-07:30PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall

Student Level: Undergraduate

Comments: None

Status: Offered

EESC170401

Climate Change and the Corporation: Risks, Rewards, and Responsibilities

Pisani Gareau, Tara

Fall 2024

This is a Complex Problem course and is open to FRESHMEN only. You must take UNAS1733 with this course. Climate change is a complex, existential threat to humanity, manifesting in heat waves, droughts, wildfires, and flooding. Corporate America is a contributor to climate change through greenhouse gas emissions. In addition, corporations are impacted by climate change as it threatens their physical assets and their ability to supply goods and services. Through an integrated approach that blends scientific analysis of climate change with case studies of corporations, students will learn the science behind climate risk and study how businesses are managing and communicating to stakeholders both the impacts of climate change on the firm as well as the firm's impact on the environment.

Credits: 3

Room and Schedule: 245 Beacon Street Room 107 TuTh 01:30PM-02:45PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: null

Student Level: Undergraduate

Comments: None

Status: Offered

EESC170402

Climate Change and the Corporation: Risks, Rewards, and Responsibilities

Humphries, Courtney

Fall 2024

This is a Complex Problem course and is open to FRESHMEN only. You must take UNAS1733 with this course. Climate change is a complex, existential threat to humanity, manifesting in heat waves, droughts, wildfires, and flooding. Corporate America is a contributor to climate change through greenhouse gas emissions. In addition, corporations are impacted by climate change as it threatens their physical assets and their ability to supply goods and services. Through an integrated approach that blends scientific analysis of climate change with case studies of corporations, students will learn the science behind climate risk and study how businesses are managing and communicating to stakeholders both the impacts of climate change on the firm as well as the firm's impact on the environment.

Credits: 0

Room and Schedule: 245 Beacon Street Room 215 M 11:00AM-12:50PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: null

Student Level: Undergraduate

Comments: None

Status: Offered

EESC170403

Climate Change and the Corporation: Risks, Rewards, and Responsibilities

Humphries, Courtney

Fall 2024

This is a Complex Problem course and is open to FRESHMEN only. You must take UNAS1733 with this course. Climate change is a complex, existential threat to humanity, manifesting in heat waves, droughts, wildfires, and flooding. Corporate America is a contributor to climate change through greenhouse gas emissions. In addition, corporations are impacted by climate change as it threatens their physical assets and their ability to supply goods and services. Through an integrated approach that blends scientific analysis of climate change with case studies of corporations, students will learn the science behind climate risk and study how businesses are managing and communicating to stakeholders both the impacts of climate change on the firm as well as the firm's impact on the environment.

Credits: 0

Room and Schedule: 245 Beacon Street Room 215 M 01:00PM-02:50PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: null

Student Level: Undergraduate

Comments: None

Status: Offered

EESC170404

Climate Change and the Corporation: Risks, Rewards, and Responsibilities

Humphries, Courtney

Fall 2024

This is a Complex Problem course and is open to FRESHMEN only. You must take UNAS1733 with this course. Climate change is a complex, existential threat to humanity, manifesting in heat waves, droughts, wildfires, and flooding. Corporate America is a contributor to climate change through greenhouse gas emissions. In addition, corporations are impacted by climate change as it threatens their physical assets and their ability to supply goods and services. Through an integrated approach that blends scientific analysis of climate change with case studies of corporations, students will learn the science behind climate risk and study how businesses are managing and communicating to stakeholders both the impacts of climate change on the firm as well as the firm's impact on the environment.

Credits: 0

Room and Schedule: 245 Beacon Street Room 215 F 11:00AM-12:50PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: null

Student Level: Undergraduate

Comments: None

Status: Offered

EESC170405

Climate Change and the Corporation: Risks, Rewards, and Responsibilities

Humphries, Courtney

Fall 2024

This is a Complex Problem course and is open to FRESHMEN only. You must take UNAS1733 with this course. Climate change is a complex, existential threat to humanity, manifesting in heat waves, droughts, wildfires, and flooding. Corporate America is a contributor to climate change through greenhouse gas emissions. In addition, corporations are impacted by climate change as it threatens their physical assets and their ability to supply goods and services. Through an integrated approach that blends scientific analysis of climate change with case studies of corporations, students will learn the science behind climate risk and study how businesses are managing and communicating to stakeholders both the impacts of climate change on the firm as well as the firm's impact on the environment.

Credits: 0

Room and Schedule: 245 Beacon Street Room 215 F 01:00PM-02:50PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: null

Student Level: Undergraduate

Comments: None

Status: Offered

EESC170406

Climate Change and the Corporation: Risks, Rewards, and Responsibilities

Pisani Gareau, Tara

Fall 2024

This is a Complex Problem course and is open to FRESHMEN only. You must take UNAS1733 with this course. Climate change is a complex, existential threat to humanity, manifesting in heat waves, droughts, wildfires, and flooding. Corporate America is a contributor to climate change through greenhouse gas emissions. In addition, corporations are impacted by climate change as it threatens their physical assets and their ability to supply goods and services. Through an integrated approach that blends scientific analysis of climate change with case studies of corporations, students will learn the science behind climate risk and study how businesses are managing and communicating to stakeholders both the impacts of climate change on the firm as well as the firm's impact on the environment.

Credits: 0

Room and Schedule: Stokes Hall 205S Tu 06:00PM-07:15PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: null

Student Level: Undergraduate

Comments: None

Status: Offered

EESC170407

Climate Change and the Corporation: Risks, Rewards, and Responsibilities

Pisani Gareau, Tara

Fall 2024

This is a Complex Problem course and is open to FRESHMEN only. You must take UNAS1733 with this course. Climate change is a complex, existential threat to humanity, manifesting in heat waves, droughts, wildfires, and flooding. Corporate America is a contributor to climate change through greenhouse gas emissions. In addition, corporations are impacted by climate change as it threatens their physical assets and their ability to supply goods and services. Through an integrated approach that blends scientific analysis of climate change with case studies of corporations, students will learn the science behind climate risk and study how businesses are managing and communicating to stakeholders both the impacts of climate change on the firm as well as the firm's impact on the environment.

Credits: 0

Room and Schedule: Stokes Hall 145N Tu 06:00PM-07:15PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: null

Student Level: Undergraduate

Comments: None

Status: Offered

EESC170408

Climate Change and the Corporation: Risks, Rewards, and Responsibilities

Pisani Gareau, Tara

Fall 2024

This is a Complex Problem course and is open to FRESHMEN only. You must take UNAS1733 with this course. Climate change is a complex, existential threat to humanity, manifesting in heat waves, droughts, wildfires, and flooding. Corporate America is a contributor to climate change through greenhouse gas emissions. In addition, corporations are impacted by climate change as it threatens their physical assets and their ability to supply goods and services. Through an integrated approach that blends scientific analysis of climate change with case studies of corporations, students will learn the science behind climate risk and study how businesses are managing and communicating to stakeholders both the impacts of climate change on the firm as well as the firm's impact on the environment.

Credits: 0

Room and Schedule: Stokes Hall 203S Tu 06:00PM-07:15PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: null

Student Level: Undergraduate

Comments: None

Status: Offered

EESC170409

Climate Change and the Corporation: Risks, Rewards, and Responsibilities

Pisani Gareau, Tara

Fall 2024

This is a Complex Problem course and is open to FRESHMEN only. You must take UNAS1733 with this course. Climate change is a complex, existential threat to humanity, manifesting in heat waves, droughts, wildfires, and flooding. Corporate America is a contributor to climate change through greenhouse gas emissions. In addition, corporations are impacted by climate change as it threatens their physical assets and their ability to supply goods and services. Through an integrated approach that blends scientific analysis of climate change with case studies of corporations, students will learn the science behind climate risk and study how businesses are managing and communicating to stakeholders both the impacts of climate change on the firm as well as the firm's impact on the environment.

Credits: 0

Room and Schedule: Stokes Hall 141N Tu 06:00PM-07:15PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: null

Student Level: Undergraduate

Comments: None

Status: Offered

EESC170410

Climate Change and the Corporation: Risks, Rewards, and Responsibilities

Pisani Gareau, Tara

Fall 2024

This is a Complex Problem course and is open to FRESHMEN only. You must take UNAS1733 with this course. Climate change is a complex, existential threat to humanity, manifesting in heat waves, droughts, wildfires, and flooding. Corporate America is a contributor to climate change through greenhouse gas emissions. In addition, corporations are impacted by climate change as it threatens their physical assets and their ability to supply goods and services. Through an integrated approach that blends scientific analysis of climate change with case studies of corporations, students will learn the science behind climate risk and study how businesses are managing and communicating to stakeholders both the impacts of climate change on the firm as well as the firm's impact on the environment.

Credits: 0

Room and Schedule: Stokes Hall 115S Tu 06:00PM-07:15PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: null

Student Level: Undergraduate

Comments: None

Status: Offered

EESC170411

Climate Change and the Corporation: Risks, Rewards, and Responsibilities

Pisani Gareau, Tara

Fall 2024

This is a Complex Problem course and is open to FRESHMEN only. You must take UNAS1733 with this course. Climate change is a complex, existential threat to humanity, manifesting in heat waves, droughts, wildfires, and flooding. Corporate America is a contributor to climate change through greenhouse gas emissions. In addition, corporations are impacted by climate change as it threatens their physical assets and their ability to supply goods and services. Through an integrated approach that blends scientific analysis of climate change with case studies of corporations, students will learn the science behind climate risk and study how businesses are managing and communicating to stakeholders both the impacts of climate change on the firm as well as the firm's impact on the environment.

Credits: 0

Room and Schedule: Stokes Hall 211S Tu 06:00PM-07:15PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: null

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220101

Environmental Systems: The Human Footprint

Kafka, Alan L

Fall 2024

Humans have become an increasingly significant force on Earth system, including the atmosphere, biosphere, and hydrosphere. This course explores the influence of humans on natural systems and how environmental solutions and consequences link to social, political, economic, health, and justice issues. Specifically, we will discuss topics related to population growth, energy, agriculture, urbanization, and environmental justice. This course is part of the Environmental Systems introductory sequence (EESC2201-EESC2208) for Environmental Geoscience majors.

Credits: 2

Room and Schedule: Devlin Hall 201 TuTh 01:30PM-02:45PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall, Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220102

Environmental Systems: The Human Footprint

Kafka, Alan L

Fall 2024

Humans have become an increasingly significant force on Earth system, including the atmosphere, biosphere, and hydrosphere. This course explores the influence of humans on natural systems and how environmental solutions and consequences link to social, political, economic, health, and justice issues. Specifically, we will discuss topics related to population growth, energy, agriculture, urbanization, and environmental justice. This course is part of the Environmental Systems introductory sequence (EESC2201-EESC2208) for Environmental Geoscience majors.

Credits: 0

Room and Schedule: Devlin Hall 201 Th 03:00PM-05:00PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall, Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220103

Environmental Systems: The Human Footprint

Kafka, Alan L

Fall 2024

Humans have become an increasingly significant force on Earth system, including the atmosphere, biosphere, and hydrosphere. This course explores the influence of humans on natural systems and how environmental solutions and consequences link to social, political, economic, health, and justice issues. Specifically, we will discuss topics related to population growth, energy, agriculture, urbanization, and environmental justice. This course is part of the Environmental Systems introductory sequence (EESC2201-EESC2208) for Environmental Geoscience majors.

Credits: 0

Room and Schedule: Devlin Hall 201 Th 05:30PM-07:30PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall, Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220601

Environmental Systems: Oceans

Wilson, Kathleen

Fall 2024

The oceans cover 70% of the earth's surface and are home to much of its life. The oceans are critical to the earth's biogeochemical cycling of energy and mass. Ocean currents play a key role in climate through redistribution and exchange of heat with the atmosphere and storage of CO₂. Coastal areas, the narrow interface between land and ocean, represent some of the most productive, populated, and vulnerable regions on earth. The course provides an introduction to the ocean's role in earth processes and explores topics and challenges facing a changing planet through case studies and critical and analytical thinking.

Credits: 2

Room and Schedule: Devlin Hall 201 TuTh 01:30PM-02:45PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically in the Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220602

Environmental Systems: Oceans

Wilson, Kathleen

Fall 2024

The oceans cover 70% of the earth's surface and are home to much of its life. The oceans are critical to the earth's biogeochemical cycling of energy and mass. Ocean currents play a key role in climate through redistribution and exchange of heat with the atmosphere and storage of CO₂. Coastal areas, the narrow interface between land and ocean, represent some of the most productive, populated, and vulnerable regions on earth. The course provides an introduction to the ocean's role in earth processes and explores topics and challenges facing a changing planet through case studies and critical and analytical thinking.

Credits: 0

Room and Schedule: Devlin Hall 201 Th 03:00PM-05:00PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically in the Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220603

Environmental Systems: Oceans

Wilson, Kathleen

Fall 2024

The oceans cover 70% of the earth's surface and are home to much of its life. The oceans are critical to the earth's biogeochemical cycling of energy and mass. Ocean currents play a key role in climate through redistribution and exchange of heat with the atmosphere and storage of CO₂. Coastal areas, the narrow interface between land and ocean, represent some of the most productive, populated, and vulnerable regions on earth. The course provides an introduction to the ocean's role in earth processes and explores topics and challenges facing a changing planet through case studies and critical and analytical thinking.

Credits: 0

Room and Schedule: Devlin Hall 201 Th 05:30PM-07:30PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically in the Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220801

Environmental Systems: Quantitative Methods

Lamontagne, Anne

Fall 2024

This course focuses on some mathematical topics that are commonly used in analyses of environmental systems. The primary emphasis in the course will be on statistical methods, especially understanding statistical sampling and the determination of the mean, standard deviation, and confidence intervals of a population. Some commonly used probability distributions including the normal and Poisson distributions will be discussed. Other topics such as line fitting, non-linear models, and feedback systems will be introduced. The course is part of the Environmental Systems introductory sequence (EESC2201-EESC2208) for Environmental Geoscience majors.

Credits: 2

Room and Schedule: Devlin Hall 201 MWF 02:00PM-02:50PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220802

Environmental Systems: Quantitative Methods

Lamontagne, Anne

Fall 2024

This course focuses on some mathematical topics that are commonly used in analyses of environmental systems. The primary emphasis in the course will be on statistical methods, especially understanding statistical sampling and the determination of the mean, standard deviation, and confidence intervals of a population. Some commonly used probability distributions including the normal and Poisson distributions will be discussed. Other topics such as line fitting, non-linear models, and feedback systems will be introduced. The course is part of the Environmental Systems introductory sequence (EESC2201-EESC2208) for Environmental Geoscience majors.

Credits: 0

Room and Schedule: Devlin Hall 201 Tu 03:00PM-05:00PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220803

Environmental Systems: Quantitative Methods

Lamontagne, Anne

Fall 2024

This course focuses on some mathematical topics that are commonly used in analyses of environmental systems. The primary emphasis in the course will be on statistical methods, especially understanding statistical sampling and the determination of the mean, standard deviation, and confidence intervals of a population. Some commonly used probability distributions including the normal and Poisson distributions will be discussed. Other topics such as line fitting, non-linear models, and feedback systems will be introduced. The course is part of the Environmental Systems introductory sequence (EESC2201-EESC2208) for Environmental Geoscience majors.

Credits: 0

Room and Schedule: Devlin Hall 201 Tu 05:30PM-07:30PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically

Student Level: Undergraduate

Comments: None

Status: Offered

EESC302001

Integrating Science and Society: A Tale of Four Nobels

Huang, Jier;Ming, Yi;Tian, Hanqin

Fall 2024

To borrow a line from A Tale of Two Cities, It was the best of times, it was the worst of times. Hardly a day goes by without headlines about climate change, environmental degradation, socioeconomic inequality and policy failure. Yet the aspirations for a just, sustainable society and the rapid development of new technologies in renewable energy and AI offer hopes and business opportunities. One thing for sure is that what we choose to do (or not to do) at this particular juncture of history is bound to have long-lasting implications for many generations to come. This interdisciplinary course, to be co-taught by the core faculty members of the Schiller Institute, will focus on the intersection of climate science, sustainable growth, green technology and policy actions. It is designed specifically to provide students with a comprehensive, yet in-depth overview of the complex interrelationships between these four key areas and how they may interact to shape the future of our planet. The course is inspired partly by four recent Nobel Prizes (hence the title), which are in physics (2021), peace (2007), chemistry (2023) and economics (2018), and help anchor the main units. The first unit starts with an overview of the scientific evidence for climate change and its causes, as well as the current state of energy production, consumption and technology. In the second unit, students will then learn about the challenges and opportunities associated with transitioning to a more sustainable economy, nature-based solution to climate change. The third unit is devoted to state-of-art technology toward renewable energy. The fourth unit, composed mainly of a series of guest lectures, provides a review of the existing policy frameworks at local, national, and international levels, as well as the role of key actors such as governments, NGOs, industries and communities of faith.

Credits: 3

Room and Schedule: 245 Beacon Street Room 229 TuTh 10:30AM-11:45AM

Satisfies Core Requirement: None

Prerequisites: Prerequisites: Math 1100 and 1101 or equivalentOne of following (or equivalent): Physics 2200, Chem 1109, Bio 2000 or 2010, EESC 2200

Corequisites: None

Cross-listed with: SCHI3020

Frequency: null

Student Level: Undergraduate

Comments: None

Status: Offered

EESC332001

Introduction to Geochemistry

Wang, Xingchen

Fall 2024

This course will apply the principles of chemistry to investigate the chemical compositions of the Earth system, including the atmosphere, hydrosphere, biosphere, and lithosphere. Topics will include the origin of elements in the solar system; distribution of elements in the core, mantle, and crust; cycling of carbon, nitrogen, phosphorus, and other elements in the Earth's surface environments; radiometric dating techniques; and stable isotope geochemistry.

Credits: 3

Room and Schedule: Devlin Hall 307 TuTh 01:30PM-02:45PM

Satisfies Core Requirement: None

Prerequisites: One semester of high school level general chemistry or permission from the instructor

Corequisites: None

Cross-listed with: CHEM3320

Frequency: Periodically

Student Level: Undergraduate

Comments: None

Status: Offered

EESC339801

Statistical Analysis of Scientific Data

Kafka, Alan L

Fall 2024

The scientific process involves the collection of data for the testing and development of scientific models. This course covers the statistical methods commonly used to acquire, analyze, and interpret many different types of scientific data.

Credits: 3

Room and Schedule: Devlin Hall 324 TuTh 03:30PM-04:50PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically

Student Level: Undergraduate

Comments: None

Status: Offered

EESC448001

Applications of GIS (Geographical Information Systems)

Willis, Katherine

Fall 2024

The course covers fundamental concepts and practical applications of GIS in the geosciences, environmental sciences, land use, and other related fields. Students will learn the basics and principles of spatial database management, database query, and preparation of printed maps and gain working experience of applying GIS to their studies and research and achieve practical skills for the marketplace.

Credits: 3

Room and Schedule: Digital Experience Room (100) Service Bldg; M 01:00PM-01:50PM; W 01:00PM-02:50PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically

Student Level: Undergraduate

Comments: None

Status: Offered

EESC532001

Introduction to Geochemistry

Wang, Xingchen

Fall 2024

This course will apply the principles of chemistry to investigate the chemical compositions of the Earth system, including the atmosphere, hydrosphere, biosphere, and lithosphere. Topics will include the origin of elements in the solar system; distribution of elements in the core, mantle, and crust; cycling of carbon, nitrogen, phosphorus, and other elements in the Earth's surface environments; radiometric dating techniques; and stable isotope geochemistry.

Credits: 3

Room and Schedule: Devlin Hall 307 TuTh 01:30PM-02:45PM

Satisfies Core Requirement: None

Prerequisites: One semester of college level chemistry or permission of the instructor

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC539801

Statistical Analysis of Scientific Data

Kafka, Alan L

Fall 2024

The scientific process involves the collection of data for the testing and development of scientific models. This course covers the statistical methods commonly used to acquire, analyze, and interpret many different types of scientific data.

Credits: 3

Room and Schedule: Devlin Hall 324 TuTh 03:30PM-04:50PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically

Student Level: Graduate

Comments: None

Status: Offered

EESC556501

Terrestrial Biosphere Modeling

Tian, Hanqin

Fall 2024

Terrestrial Biosphere models(TBM) can provide a quantitative tool for a predictive understanding of the structure and functioning of Earth's terrestrial biosphere and its interactions with atmosphere and ocean. A rapidly increasing literature indicates that TBM has become a theme in the study of many cutting-edge research issues such as climate change impact, adaptation and mitigation, and natural resource management. Terrestrial Biosphere Modeling is a project-based course that explores the theory and rationale in modeling the structure and functions of the terrestrial biosphere, examines the state-of-art in modeling technologies such as data assimilation, Machine Learning/AI Algorithms, and scaling up from site to global level. The primary teaching objective is to provide students with hands-on research experience in terrestrial biosphere modeling, including model representation of hydrological processes and major biogeochemical cycles (carbon, nitrogen, phosphorus), model implementation, validation and interpretation, and TBM's applications in climate change impact assessment, carbon and ecosystem management, greenhouse gas accounting, water and environmental sustainability.

Credits: 3

Room and Schedule: Devlin Hall 201 MW 10:30AM-11:45AM

Satisfies Core Requirement: None

Prerequisites: Two courses: one ecology course/equivalent and one computer programming; or approval by instructor.

Corequisites: None

Cross-listed with: None

Frequency: Every Fall

Student Level: Both

Comments: None

Status: Offered

EESC558201

Senior Environmental Geoscience Research Seminar I

Snyder, Noah P, PHD; Wilson, Kathleen

Fall 2024

In this two-semester course sequence, students will be introduced to the process of conducting original scientific research. This includes exploring fundamentals of a natural system from reading the scientific literature, defining a problem, designing and executing an experiment, analysis, data interpretation, and presentation of results in written and oral formats. Students will work individually or in groups within a broader research project. Topics and field areas will vary from year to year depending on existing projects and expertise of the instructor. The EESC5582-5583 sequence fulfills the senior research experience requirement for Environmental Geoscience majors.

Credits: 2**Room and Schedule:** Devlin Hall 220 M 02:00PM-03:45PM**Satisfies Core Requirement:** None**Prerequisites:** None**Corequisites:** Open to senior Environmental Geoscience majors only**Cross-listed with:** None**Frequency:** Every Fall**Student Level:** Undergraduate**Comments:** None**Status:** Offered

EESC559401**Advanced Reading & Research in Geology****Wilson, Kathleen****Fall 2024**

For undergraduates wishing to pursue independent study with lab/research work in the area of geology under the direction of a faculty member.

Credits: 4**Room and Schedule:** By Arrangement**Satisfies Core Requirement:** None**Prerequisites:** Permission of Instructor**Corequisites:** None**Cross-listed with:** None**Frequency:** Biannually**Student Level:** Undergraduate**Comments:** None**Status:** Offered

EESC559501**Senior Thesis Seminar****Behn, Mark D****Fall 2024**

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3**Room and Schedule:** By Arrangement**Satisfies Core Requirement:** None**Prerequisites:** Permission of Department**Corequisites:** None**Cross-listed with:** None**Frequency:** Every Spring**Student Level:** Undergraduate**Comments:** None**Status:** Offered

EESC559502**Senior Thesis Seminar****Kurz, David****Fall 2024**

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3**Room and Schedule:** By Arrangement**Satisfies Core Requirement:** None**Prerequisites:** Permission of Department**Corequisites:** None**Cross-listed with:** None**Frequency:** Every Spring**Student Level:** Undergraduate

Comments: None

Status: Offered

EESC559503

Senior Thesis Seminar

Baxter, Ethan

Fall 2024

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC559504

Senior Thesis Seminar

Wilson, Kathleen

Fall 2024

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

EESC559505

Senior Thesis Seminar

Palevsky, Hilary I

Fall 2024

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC559506

Senior Thesis Seminar

Shakun, Jeremy D

Fall 2024

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None
Prerequisites: Permission of Department
Corequisites: None
Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

EESC559507

Senior Thesis Seminar

Snyder, Noah P, PHD

Fall 2024

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC559508

Senior Thesis Seminar

Wang, Xingchen

Fall 2024

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC559509

Senior Thesis Seminar

Tian, Hanqin

Fall 2024

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC559510

Senior Thesis Seminar

Ming, Yi

Fall 2024

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC559601

Undergraduate Reading and Research in Environmental Geoscience

Snyder, Noah P, PHD

Fall 2024

An independent study of some problem or area of knowledge in environmental geology under the direction of a faculty member. The possibility exists to work with actual problems in Massachusetts using data from state agencies. Also to be used for undergraduate students doing honors theses.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of a faculty member.

Corequisites: None

Cross-listed with: None

Frequency: Every Fall, Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC559701**Undergraduate Reading and Research in Geology****Snyder, Noah P, PHD****Fall 2024**

For undergraduates wishing to pursue independent study in the area of geology under the direction of a faculty member. Study can be in an area of knowledgeable interest or on a particular problem.

Credits: 3**Room and Schedule:** By Arrangement**Satisfies Core Requirement:** None**Prerequisites:** Permission of Department**Corequisites:** None**Cross-listed with:** None**Frequency:** Every Fall,Every Spring**Student Level:** Undergraduate**Comments:** None**Status:** Offered

EESC559702**Undergraduate Reading and Research in Geology****Behn, Mark D****Fall 2024**

For undergraduates wishing to pursue independent study in the area of geology under the direction of a faculty member. Study can be in an area of knowledgeable interest or on a particular problem.

Credits: 3**Room and Schedule:** By Arrangement**Satisfies Core Requirement:** None**Prerequisites:** Permission of Department**Corequisites:** None**Cross-listed with:** None**Frequency:** Every Fall,Every Spring**Student Level:** Undergraduate**Comments:** None**Status:** Offered

EESC559801**Undergraduate Reading and Research in Geophysics****Snyder, Noah P, PHD****Fall 2024**

For undergraduates wishing to pursue independent study in the area of geophysics under the direction of a faculty member. Study can be in an area of knowledgeable interest or on a particular problem.

Credits: 3**Room and Schedule:** By Arrangement**Satisfies Core Requirement:** None**Prerequisites:** Permission of Department**Corequisites:** None**Cross-listed with:** None**Frequency:** Every Fall, Every Spring**Student Level:** Undergraduate**Comments:** None**Status:** Offered

EESC668001**Applications of GIS****Willis, Katherine****Fall 2024**

The course covers fundamental concepts and practical applications of GIS in the geosciences, environmental sciences, land use, and other related fields. Students will learn the basics and principles of spatial database management, database query, and preparation of printed maps and gain working experience of applying GIS to their studies and research and achieve practical skills for the marketplace.

Credits: 3**Room and Schedule:** Digital Experience Room (100) Service Bldg; M 01:00PM-01:50PM; W 01:00PM-02:50PM**Satisfies Core Requirement:** None**Prerequisites:** None**Corequisites:** None**Cross-listed with:** None**Frequency:** Periodically

Student Level: Graduate

Comments: None

Status: Offered

EESC669101

Earth Systems Seminar

Shakun, Jeremy D;Wang, Xingchen

Fall 2024

An advanced seminar on topics in the Geosciences requiring integration of many subspecialities. Topics vary from year to year. Students will be expected to read and report on papers from the recent literature and prepare one or more talks similar to those presented at scientific meetings and a term paper integrating data from various areas of Geosciences. Required for all incoming graduate students.

Credits: 3

Room and Schedule: Devlin Hall 220 F 01:00PM-03:30PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically in the Fall

Student Level: Graduate

Comments: None

Status: Offered

EESC779801

Graduate Reading and Research in Geophysics

Snyder, Noah P, PHD

Fall 2024

A graduate research study of a topic in geophysics under the supervision of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC779901

Graduate Reading and Research in Geology

Snyder, Noah P, PHD

Fall 2024

A graduate research study of a topic in geology under the supervision of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC779902

Graduate Reading and Research in Geology

Wang, Xingchen

Fall 2024

A graduate research study of a topic in geology under the supervision of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880101

Thesis Seminar

Behn, Mark D

Fall 2024

Thesis research under the guidance of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880102

Thesis Seminar

Wilson, Kathleen

Fall 2024

Thesis research under the guidance of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880103

Thesis Seminar

Tian, Hanqin

Fall 2024

Thesis research under the guidance of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880104

Thesis Seminar

Ming, Yi

Fall 2024

Thesis research under the guidance of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880105

Thesis Seminar

Ebel, John E

Fall 2024

Thesis research under the guidance of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880106

Thesis Seminar

Shakun, Jeremy D

Fall 2024

Thesis research under the guidance of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880107

Thesis Seminar

Snyder, Noah P, PHD

Fall 2024

Thesis research under the guidance of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall, Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880108

Thesis Seminar

Wang, Xingchen

Fall 2024

Thesis research under the guidance of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall, Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880201

Advanced Thesis Seminar

Shakun, Jeremy D

Fall 2024

Advanced Thesis research under the guidance of a faculty member.

Credits: 6

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Biannually

Student Level: Graduate

Comments: None

Status: Offered

EESC888801

Interim Study

Kruckenber, Seth C

Fall 2024

Required for master's candidates who have completed all their course requirements but have not taken comprehensive examinations. Also for master's students who have taken up to six credits of Thesis Seminar but have not yet finished writing their thesis.

Credits: 0

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall, Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC990101

Doctoral Continuation

Shakun, Jeremy D; Wang, Xingchen

Fall 2024

PhD Thesis research under the guidance of a faculty member

Credits: 1

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring,Every Summer

Student Level: Graduate

Comments: None

Status: Offered

EESC990102

Doctoral Continuation

Baxter, Ethan;Kruckenberg, Seth C

Fall 2024

PhD Thesis research under the guidance of a faculty member

Credits: 1

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring,Every Summer

Student Level: Graduate

Comments: None

Status: Offered

EESC990103

Doctoral Continuation

Ebel, John E;Kafka, Alan L

Fall 2024

PhD Thesis research under the guidance of a faculty member

Credits: 1

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring,Every Summer

Student Level: Graduate

Comments: None

Status: Offered

EESC990104

Doctoral Continuation

Palevsky, Hilary I

Fall 2024

PhD Thesis research under the guidance of a faculty member

Credits: 1

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring,Every Summer

Student Level: Graduate

Comments: None

Status: Offered

EESC990105

Doctoral Continuation

Snyder, Noah P, PHD;Wilson, Kathleen

Fall 2024

PhD Thesis research under the guidance of a faculty member

Credits: 1

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring,Every Summer

Student Level: Graduate

Comments: None

Status: Offered

EESC990106

Doctoral Continuation

Ming, Yi;Tian, Hanqin

Fall 2024

PhD Thesis research under the guidance of a faculty member

Credits: 1

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring,Every Summer

Student Level: Graduate

Comments: None

Status: Offered

Earth and Environmental Sciences Courses: Spring 2025

EESC114601

Origin and Evolution of Life on Earth

Strother, Paul K

Spring 2025

This course explores current theories about the origins of life, beginning with the original hypothesis of the Russian biochemist A.I. Oparin. Darwin's theory of evolution is emphasized, but many different components of the natural sciences touch upon this topic. The course lectures include the study of the oldest fossils, life in extreme habitats, cellular biology, prebiotic molecules, and the search for life on other planets.

Credits: 4

Room and Schedule: Devlin Hall 221 TuTh 10:30AM-11:45AM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC114602

Origin and Evolution of Life on Earth

Strother, Paul K

Spring 2025

This course explores current theories about the origins of life, beginning with the original hypothesis of the Russian biochemist A.I. Oparin. Darwin's theory of evolution is emphasized, but many different components of the natural sciences touch upon this topic. The course lectures include the study of the oldest fossils, life in extreme habitats, cellular biology, prebiotic molecules, and the search for life on other planets.

Credits: 0

Room and Schedule: Devlin Hall 307 W 01:00PM-02:50PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC114603

Origin and Evolution of Life on Earth

Strother, Paul K

Spring 2025

This course explores current theories about the origins of life, beginning with the original hypothesis of the Russian biochemist A.I. Oparin. Darwin's theory of evolution is emphasized, but many different components of the natural sciences touch upon this topic. The course lectures include the study of the oldest fossils, life in extreme habitats, cellular biology, prebiotic molecules, and the search for life on other planets.

Credits: 0

Room and Schedule: Devlin Hall 307 W 03:00PM-04:50PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC117401

Climate Change and Society

Ming, Yi

Spring 2025

Global climate change may be one of the biggest issues facing humanity in the twenty-first century. We investigate the scientific basis for global warming forecasts from what is well known to what is deeply uncertain based on theory, models, and the geologic record of earth's climate history. We discuss the political, economic, and social dimensions surrounding the global warming debate, and explore the current and potential impacts of climate change on developed and developing societies. Connections to recent media will be emphasized to give students an up-to-date view on the state of our national conversation on climate change.

Credits: 3

Room and Schedule: 245 Beacon Street Room 107 MWF 11:00AM-11:50AM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC117601

Living on the Coast

Wilson, Kathleen

Spring 2025

This introductory course explores the dynamic interactions between coastal processes and human societies. Students will investigate the physical, ecological, and social dimensions of coastal living, including the challenges and opportunities posed by coastal environments. The structure of the class will be split into two modules. The first will establish a shared understanding and basis of knowledge for all students on the processes that shape coastal landscapes. The second will delve into 5 case studies, where we will explore diverse coastal landscapes and the connections between coastal processes, hazards, built environments, and society. There will be weekly formative assessments in the form of quizzes or reading reflections to assess student learning and engagement with the material.

Credits: 3

Room and Schedule: Devlin Hall 201 TuTh 09:00AM-10:15AM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: null

Student Level: Undergraduate

Comments: None

Status: Offered

EESC117701

Cosmos

Kuchar, Thomas A

Spring 2025

Open to all students.. There are more than a dozen interplanetary probes from numerous countries that are currently collecting data from several planetary bodies in the Solar System. These exploration missions are expanding knowledge of our Solar System, which is mostly built on only about half a century of space exploration. We will discuss these space missions and their scientific goals and results, which are increasingly oriented to answer questions on planetary evolution and the possibility of extraterrestrial biospheres. Throughout this course, the fundamentals of how science works will be emphasized. If weather permits, there might also be outdoor lectures for star-gazing opportunities.

Credits: 3

Room and Schedule: Devlin Hall 8 TuTh 03:00PM-04:15PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC118201

The Living Earth II

Barnett, George M

Spring 2025

This is the second semester of EESC1180. This course may be taken independently of EESC1180.

Credits: 4

Room and Schedule: Higgins Hall 310 MWF 02:00PM-02:50PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC118202**The Living Earth II****Barnett, George M****Spring 2025**

This is the second semester of EESC1180. This course may be taken independently of EESC1180.

Credits: 0**Room and Schedule:** Devlin Hall 201 M 03:00PM-05:00PM**Satisfies Core Requirement:** Natural Science**Prerequisites:** None**Corequisites:** None**Cross-listed with:** None**Frequency:** Every Spring**Student Level:** Undergraduate**Comments:** None**Status:** Offered

EESC118203**The Living Earth II****Barnett, George M****Spring 2025**

This is the second semester of EESC1180. This course may be taken independently of EESC1180.

Credits: 0**Room and Schedule:** Devlin Hall 201 M 05:30PM-07:30PM**Satisfies Core Requirement:** Natural Science**Prerequisites:** None**Corequisites:** None**Cross-listed with:** None**Frequency:** Every Spring**Student Level:** Undergraduate**Comments:** None**Status:** Offered

EESC118204**The Living Earth II****Barnett, George M**

Spring 2025

This is the second semester of EESC1180. This course may be taken independently of EESC1180.

Credits: 0

Room and Schedule: Devlin Hall 201 W 03:00PM-05:00PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC118205

The Living Earth II

Barnett, George M

Spring 2025

This is the second semester of EESC1180. This course may be taken independently of EESC1180.

Credits: 0

Room and Schedule: Devlin Hall 201 W 05:30PM-07:30PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC170101

Building a Habitable Planet: Geoscientific Perspectives

Baxter, Ethan

Spring 2025

This is an Enduring Question course and is open to FRESHMEN only. You must take both EESC1701 and THEO1703. How have religion and science shaped our understanding of the origins of the Earth, its evolution into a habitable planet, and our human relationship with it? Providing both Christian and Islamic perspectives, this course explores our planet and the evolution of life. Students will also examine the scientific method and the tools of geology, geochemistry, and geophysics used to unlock the history of the Earth from its beginnings.

Credits: 3

Room and Schedule: Stokes Hall 301N MWF 10:00AM-10:50AM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC170102

Building a Habitable Planet: Geoscientific Perspectives

Baxter, Ethan

Spring 2025

This is an Enduring Question course and is open to FRESHMEN only. You must take both EESC1701 and THEO1703. How have religion and science shaped our understanding of the origins of the Earth, its evolution into a habitable planet, and our human relationship with it? Providing both Christian and Islamic perspectives, this course explores our planet and the evolution of life. Students will also examine the scientific method and the tools of geology, geochemistry, and geophysics used to unlock the history of the Earth from its beginnings.

Credits: 0

Room and Schedule: 245 Beacon Street Room 215 M 06:00PM-07:50PM

Satisfies Core Requirement: Natural Science

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220101

Environmental Systems: The Human Footprint

Lamontagne, Anne

Spring 2025

Humans have become an increasingly significant force on Earth system, including the atmosphere, biosphere, and hydrosphere. This course explores the influence of humans on natural systems and how environmental solutions and consequences link to social, political, economic, health, and justice issues. Specifically, we will discuss topics related to population growth, energy, agriculture, urbanization, and environmental justice. This course is part of the Environmental Systems introductory sequence (EESC2201-EESC2208) for Environmental Geoscience majors.

Credits: 2

Room and Schedule: Devlin Hall 201 MWF 11:00AM-11:50AM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall, Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220102

Environmental Systems: The Human Footprint

Lamontagne, Anne

Spring 2025

Humans have become an increasingly significant force on Earth system, including the atmosphere, biosphere, and hydrosphere. This course explores the influence of humans on natural systems and how environmental solutions and consequences link to social, political, economic, health, and justice issues. Specifically, we will discuss topics related to population growth, energy, agriculture, urbanization, and environmental justice. This course is part of the Environmental Systems introductory sequence (EESC2201-EESC2208) for Environmental Geoscience majors.

Credits: 0

Room and Schedule: Devlin Hall 201 M 12:30PM-02:30PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall, Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220103

Environmental Systems: The Human Footprint

Lamontagne, Anne

Spring 2025

Humans have become an increasingly significant force on Earth system, including the atmosphere, biosphere, and hydrosphere. This course explores the influence of humans on natural systems and how environmental solutions and consequences link to social, political, economic, health, and justice issues. Specifically, we will discuss topics related to population growth, energy, agriculture, urbanization, and environmental justice. This course is part of the Environmental Systems introductory sequence (EESC2201-EESC2208) for Environmental Geoscience majors.

Credits: 0

Room and Schedule: Devlin Hall 201 W 12:30PM-02:30PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall, Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220401

Environmental Systems: Carbon Cycle

Wang, Xingchen

Spring 2025

Carbon dioxide emissions and climate change are among the most pressing environmental issues confronting humanity in the 21st century. This course will give you a comprehensive insight into Earth's natural carbon cycle and the ways in which human activities are modifying it. Starting with fundamental carbon chemistry, we'll explore the carbon cycle across diverse environmental systems, including the atmosphere, soil, rivers, and oceans. Lastly, we will examine the fate of anthropogenic carbon dioxide and explore ongoing technologies designed to remove carbon dioxide from the atmosphere.

Credits: 2

Room and Schedule: Devlin Hall 201 TuTh 01:30PM-02:45PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220402

Environmental Systems: Carbon Cycle

Wang, Xingchen

Spring 2025

Carbon dioxide emissions and climate change are among the most pressing environmental issues confronting humanity in the 21st century. This course will give you a comprehensive insight into Earth's natural carbon cycle and the ways in which human activities are modifying it. Starting with fundamental carbon chemistry, we'll explore the carbon cycle across diverse environmental systems, including the atmosphere, soil, rivers, and oceans. Lastly, we will examine the fate of anthropogenic carbon dioxide and explore ongoing technologies designed to remove carbon dioxide from the atmosphere.

Credits: 0

Room and Schedule: Devlin Hall 307 Th 03:00PM-05:00PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220403

Environmental Systems: Carbon Cycle

Wang, Xingchen

Spring 2025

Carbon dioxide emissions and climate change are among the most pressing environmental issues confronting humanity in the 21st century. This course will give you a comprehensive insight into Earth's natural carbon cycle and the ways in which human activities are modifying it. Starting with fundamental carbon chemistry, we'll explore the carbon cycle across diverse environmental systems, including the atmosphere, soil, rivers, and oceans. Lastly, we will examine the fate of anthropogenic carbon dioxide and explore ongoing technologies designed to remove carbon dioxide from the atmosphere.

Credits: 0

Room and Schedule: Devlin Hall 307 Th 05:30PM-07:30PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220502

Environmental Systems: Climate Change

Shakun, Jeremy D

Spring 2025

The climate system is a complex machine for moving energy around the planet that depends on myriad interactions between air, water, ice, rocks, and life on various time and space scales—and it affects nearly every aspect of the environment we live in. Throughout Earth's 4.5 billion year history, climate has experienced periods both warmer and colder than today, as evidenced by records of environmental change preserved in natural archives. Today, human activity is the largest driver of change in the global climate system. This course provides an introduction to how Earth's climate works, the history of past climate changes, current trends and projected future conditions—all focused on parsing out what is well known to what is deeply uncertain. We will close with a brief survey of the political, economic, and sociological dimensions of climate change to understand how the science fits into a larger framework.

Credits: 2

Room and Schedule: Devlin Hall 201 TuTh 01:30PM-02:45PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically in the Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220503

Environmental Systems: Climate Change

Shakun, Jeremy D

Spring 2025

The climate system is a complex machine for moving energy around the planet that depends on myriad interactions between air, water, ice, rocks, and life on various time and space scales—and it affects nearly every aspect of the environment we live in. Throughout Earth's 4.5 billion year history, climate has experienced periods both warmer and colder than today, as evidenced by records of environmental change preserved in natural archives. Today, human activity is the largest driver of change in the global climate system. This course provides an introduction to how Earth's climate works, the history of past climate changes, current trends and projected future conditions—all focused on parsing out what is well known to what is deeply uncertain. We will close with a brief survey of the political, economic, and sociological dimensions of climate change to understand how the science fits into a larger framework.

Credits: 0

Room and Schedule: Devlin Hall 307 Th 03:00PM-05:00PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically in the Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220504

Environmental Systems: Climate Change

Shakun, Jeremy D

Spring 2025

The climate system is a complex machine for moving energy around the planet that depends on myriad interactions between air, water, ice, rocks, and life on various time and space scales—and it affects nearly every aspect of the environment we live in. Throughout Earth's 4.5 billion year history, climate has experienced periods both warmer and colder than today, as evidenced by records of environmental change preserved in natural archives. Today, human activity is the largest driver of change in the global climate system. This course provides an introduction to how Earth's climate works, the history of past climate changes, current trends and projected future conditions—all focused on parsing out what is well known to what is deeply uncertain. We will close with a brief survey of the political, economic, and sociological dimensions of climate change to understand how the science fits into a larger framework.

Credits: 0

Room and Schedule: Devlin Hall 307 Th 05:30PM-07:30PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically in the Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220701

Environmental Systems: Earthquakes

Lamontagne, Anne

Spring 2025

Earthquakes are among the most frightening and devastating of natural hazards, often resulting in catastrophic loss of life and property. Earthquakes are also among the most fascinating of natural phenomena. Although the basic global scale characteristics of earthquakes are well understood in the context of the theory of plate tectonics, considered in detail earthquakes are among the most complex and unpredictable of earth processes. This course is part of the Environmental Systems introductory sequence (EESC2201-EESC2208) for Environmental Geoscience majors.

Credits: 2

Room and Schedule: Devlin Hall 201 MWF 11:00AM-11:50AM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220702

Environmental Systems: Earthquakes

Lamontagne, Anne

Spring 2025

Earthquakes are among the most frightening and devastating of natural hazards, often resulting in catastrophic loss of life and property. Earthquakes are also among the most fascinating of natural phenomena. Although the basic global scale characteristics of earthquakes are well understood in the context of the theory of plate tectonics, considered in detail earthquakes are among the most complex and unpredictable of earth processes. This course is part of the Environmental Systems introductory sequence (EESC2201-EESC2208) for Environmental Geoscience majors.

Credits: 0

Room and Schedule: Devlin Hall 201 M 12:30PM-02:30PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC220703

Environmental Systems: Earthquakes

Lamontagne, Anne

Spring 2025

Earthquakes are among the most frightening and devastating of natural hazards, often resulting in catastrophic loss of life and property. Earthquakes are also among the most fascinating of natural phenomena. Although the basic global scale characteristics of earthquakes are well understood in the context of the theory of plate tectonics, considered in detail earthquakes are among the most complex and unpredictable of earth processes. This course is part of the Environmental Systems introductory sequence (EESC2201-EESC2208) for Environmental Geoscience majors.

Credits: 0

Room and Schedule: Devlin Hall 201 W 12:30PM-02:30PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC222001

Earth Materials

Kruckenberg, Seth C

Spring 2025

Designed to acquaint majors and minors in the Department or in the Environmental Sciences minor with the basic materials present in the Earth and on the Earth's surface. The common rock-forming silicate minerals are discussed first. Then igneous, sedimentary, and metamorphic processes are investigated to develop the classifications of these groups of rocks.

Credits: 4

Room and Schedule: Devlin Hall 117 TuTh 10:30AM-11:45AM

Satisfies Core Requirement: None

Prerequisites: EESC1132 or at least two from EESC2201-EESC2208

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC222002**Earth Materials****Kruckenberg, Seth C****Spring 2025**

Designed to acquaint majors and minors in the Department or in the Environmental Sciences minor with the basic materials present in the Earth and on the Earth's surface. The common rock-forming silicate minerals are discussed first. Then igneous, sedimentary, and metamorphic processes are investigated to develop the classifications of these groups of rocks.

Credits: 0**Room and Schedule:** Devlin Hall 324 Th 03:00PM-05:00PM**Satisfies Core Requirement:** None**Prerequisites:** EESC1132 or at least two from EESC2201-EESC2208**Corequisites:** None**Cross-listed with:** None**Frequency:** Every Spring**Student Level:** Undergraduate**Comments:** None**Status:** Offered

EESC222003**Earth Materials****Kruckenberg, Seth C****Spring 2025**

Designed to acquaint majors and minors in the Department or in the Environmental Sciences minor with the basic materials present in the Earth and on the Earth's surface. The common rock-forming silicate minerals are discussed first. Then igneous, sedimentary, and metamorphic processes are investigated to develop the classifications of these groups of rocks.

Credits: 0**Room and Schedule:** Devlin Hall 324 Th 05:30PM-07:30PM**Satisfies Core Requirement:** None**Prerequisites:** EESC1132 or at least two from EESC2201-EESC2208**Corequisites:** None**Cross-listed with:** None**Frequency:** Every Spring**Student Level:** Undergraduate

Comments: None

Status: Offered

EESC307001

Geospatial Data Analysis for Environmental Sustainability

Pan, Shufen

Spring 2025

Geospatial data and technologies permeate every aspect of our lives, from the navigation apps on our smartphones to the intricate management of city infrastructure and natural resources. This course introduces the fundamental principles and methodologies in geospatial analysis. Students acquire essential knowledge and skills in GIS, remote sensing, statistical modeling, AI, and more. Real-world case studies provide practical applications for how geospatial approaches can tackle challenges such as climate change, food and water security, and public health. Learning geospatial data quantitative analysis is imperative for effective environmental analysis, management, and communication, empowering students to contribute meaningfully to a sustainable future.

Credits: 3

Room and Schedule: Digital Experience Classroom 100 TuTh 01:30PM-02:45PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: ENVS3370

Frequency: Annually

Student Level: Undergraduate

Comments: None

Status: Offered

EESC333501

Topics in Geobiology

Dept

Spring 2025

Geobiology is broadly concerned with the dynamic interface between biology and geology as deduced from Earth's 4-billion-year rock record. This years topic will focus on Paleobotany and Palynology - the evolution of photosynthesis and the fossil record of cyanobacteria, algae and plants, those organisms primarily responsible for the generation of the modern-day atmosphere. The course starts with an introduction to historical geology and Precambrian life, followed by the evolutionary biology of photosynthetic life in terrestrial and marine environments through geologic time. Students taking this course should gain a deeper appreciation of the influence of biological evolution on the composition and dynamics of todays atmosphere.

Credits: 3

Room and Schedule: Devlin Hall 307 TuTh 01:30PM-02:45PM

Satisfies Core Requirement: None

Prerequisites: Two years of college work or permission of the instructor.

Corequisites: None

Cross-listed with: None

Frequency: Biannually in the Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC335001

Alternative Energy

Swann-Quinn, Jesse

Spring 2025

Modern society relies upon energy to support nearly all aspects of social and economic activity. Historically, this energy has come from fossil fuels (coal, oil, natural gas). Important questions concerning these energy sources' availability, along with their social and environmental impacts, contribute to increasing interest in developing alternative energy technologies (e.g., solar, wind, geothermal, tidal, etc.) Through interdisciplinary lenses, this course explores the dynamics and tensions of our current energy transitions, giving particular focus to sustainable energy resources. Students will investigate the social and environmental relationships, processes, and impacts comprising these challenges, and their possible solutions.

Credits: 3

Room and Schedule: Devlin Hall 218 MWF 01:00PM-01:50PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: ENVS3340

Frequency: Every Fall

Student Level: Undergraduate

Comments: None

Status: Offered

EESC338501

Structural Geology

Kruckenberg, Seth C

Spring 2025

The goal of this course is the development of skills in the structural analysis of rock bodies as seen in outcrops, or small areas, to gain an understanding of the geometries, sequencing, and kinematics of deformational features. Structures such as folds, faults, foliations, lineations, and shear zones will be considered at various scales, as visible in the field, or in thin section. We will also discuss some inter- and intra- granular deformation mechanisms. The 3-hour laboratory consists of in-class problems and some field-based problems.

Credits: 4

Room and Schedule: Devlin Hall 324 TuTh 01:30PM-02:45PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Biannually in the Fall, Biannually in the Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC338502

Structural Geology

Kruckenberg, Seth C

Spring 2025

The goal of this course is the development of skills in the structural analysis of rock bodies as seen in outcrops, or small areas, to gain an understanding of the geometries, sequencing, and kinematics of deformational features. Structures such as folds, faults, foliations, lineations, and shear zones will be considered at various scales, as visible in the field, or in thin section. We will also discuss some inter- and intra- granular deformation mechanisms. The 3-hour laboratory consists of in-class problems and some field-based problems.

Credits: 0

Room and Schedule: Devlin Hall 324 W 01:00PM-03:00PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Biannually in the Fall, Biannually in the Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC339601

The IPCC Scientific Assessment

Shakun, Jeremy D

Spring 2025

This seminar will focus on the IPCC AR6 (2021) Working Group I report (Physical Science Basis). The IPCC stands for Intergovernmental Panel on Climate Change and is the main international organization for assessing the current state of scientific knowledge about global climate change. The IPCC reports are a result of contributions from thousands of scientists from all over the world, and are a comprehensive summary of the current state of climate change research. This course is intended for students with an introductory background in climate change science who want to gain a deeper understanding of it, particularly those aspects of greatest relevance to society. We will follow a reading-and-discussion format. Students will be expected to carefully read the assigned parts of the report, lead some of the discussions, and actively participate in all of the discussions.

Credits: 3

Room and Schedule: Devlin Hall 307 TuTh 10:30AM-11:45AM

Satisfies Core Requirement: None

Prerequisites: At least one of EESC 1174, 1501, 2205, or instructor permission

Corequisites: None

Cross-listed with: None

Frequency: Periodically

Student Level: Undergraduate

Comments: None

Status: Offered

EESC446401

Environmental Data Exploration and Analysis

Palevsky, Hilary I

Spring 2025

Earth and environmental science increasingly depends on scientific programming to explore and analyze large datasets from in situ and autonomous observations, satellite remote sensing, and numerical model output. In this course, students will learn to use MATLAB to visualize earth system data across broad spatial and temporal scales in maps and time-series plots and apply statistical tools to analyze trends and variability in their datasets. Students will also learn to critically assess datasets and to select and justify appropriate data sources and analytical methods to address scientific questions about earth system processes. Students will practice these skills in a series of data analysis assignments focused on regional and global climate data and will apply them in a team-based final research project.

Credits: 3

Room and Schedule: Devlin Hall 307 Tu 03:00PM-05:30PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC447001

Environmental Seismology Seminar

Lamontagne, Anne

Spring 2025

One scientist's noise is another scientist's data. This seminar course will integrate many fields of earth science by focusing on applications of seismology with non-traditional seismic sources. Although seismological data has historically been used to monitor earthquakes and the deep earth interior, recently environmental and surface process scientists have been repurposing it to investigate other natural phenomena. Topics may include utilizing seismic data to study glacial dynamics, landslides, cyclones, induced seismicity and more. Students will be expected to read and report on scientific literature, and prepare and present a literature review project on a selected topic within the realm of environmental seismology

Credits: 3

Room and Schedule: Devlin Hall 307 W 05:00PM-07:30PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Annually

Student Level: Undergraduate

Comments: None

Status: Offered

EESC539601

The IPCC Scientific Assessment

Shakun, Jeremy D

Spring 2025

This seminar will focus on the IPCC AR6 (2021) Working Group I report (Physical Science Basis). The IPCC stands for Intergovernmental Panel on Climate Change and is the main international organization for assessing the current state of scientific knowledge about global climate change. The IPCC reports are a result of contributions from thousands of scientists from all over the world, and are a comprehensive summary of the current state of climate change research. This course is intended for students with an introductory background in climate change science who want to gain a deeper understanding of it, particularly those aspects of greatest relevance to society. We will follow a reading-and-discussion format. Students will be expected to carefully read the assigned parts of the report, lead some of the discussions, and actively participate in all of the discussions.

Credits: 3

Room and Schedule: Devlin Hall 307 TuTh 10:30AM-11:45AM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Periodically

Student Level: Graduate

Comments: None

Status: Offered

EESC553601

Topics in Geobiology

Strother, Paul K

Spring 2025

Geobiology is broadly concerned with the dynamic interface between biology and geology as deduced from Earth's 4-billion-year rock record. This years topic will focus on Paleobotany and Palynology - the evolution of photosynthesis and the fossil record of cyanobacteria, algae and plants, those organisms primarily responsible for the generation of the modern-day atmosphere. The course starts with an introduction to historical geology and Precambrian life, followed by the evolutionary biology of photosynthetic life in terrestrial and marine environments through geologic time. Students taking this course should gain a deeper appreciation of the influence of biological evolution on the composition and dynamics of todays atmosphere.

Credits: 3

Room and Schedule: Devlin Hall 307 TuTh 01:30PM-02:45PM

Satisfies Core Requirement: None

Prerequisites: Two years of College work or permission of the instructor.

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC558301

Senior Research Seminar II

Snyder, Noah P, PHD

Spring 2025

EESC5583 is the second semester of a two-course sequence that introduces students to the process of conducting original scientific research.

Credits: 2

Room and Schedule: Devlin Hall 220 M 02:00PM-03:45PM

Satisfies Core Requirement: None

Prerequisites: EESC5582

Corequisites: Open to senior Environmental Geoscience majors only

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC559501

Senior Thesis Seminar

Behn, Mark D

Spring 2025

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC559502

Senior Thesis Seminar

DaCosta, Jeffrey M

Spring 2025

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC559503

Senior Thesis Seminar

Shakun, Jeremy D

Spring 2025

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC559504**Senior Thesis Seminar****Snyder, Noah P, PHD****Spring 2025**

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3**Room and Schedule:** By Arrangement**Satisfies Core Requirement:** None**Prerequisites:** Permission of Department**Corequisites:** None**Cross-listed with:** None**Frequency:** Every Spring**Student Level:** Undergraduate**Comments:** None**Status:** Offered

EESC559505**Senior Thesis Seminar****Wang, Xingchen****Spring 2025**

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3**Room and Schedule:** By Arrangement**Satisfies Core Requirement:** None**Prerequisites:** Permission of Department**Corequisites:** None**Cross-listed with:** None**Frequency:** Every Spring**Student Level:** Undergraduate

Comments: None

Status: Offered

EESC559506

Senior Thesis Seminar

Tian, Hanqin

Spring 2025

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC559507

Senior Thesis Seminar

Ming, Yi

Spring 2025

Independent study in Geological Sciences or the Environmental Geosciences under the direction of a faculty member for undergraduate students. Normally runs for two semesters of the senior year. See university catalog or department website for information about department honors theses.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None
Frequency: Every Spring
Student Level: Undergraduate
Comments: None
Status: Offered

EESC559601

Undergraduate Reading and Research in Environmental Geoscience

Snyder, Noah P, PHD

Spring 2025

An independent study of some problem or area of knowledge in environmental geology under the direction of a faculty member. The possibility exists to work with actual problems in Massachusetts using data from state agencies. Also to be used for undergraduate students doing honors theses.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of a faculty member.

Corequisites: None

Cross-listed with: None

Frequency: Every Fall, Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC559701

Undergraduate Reading and Research in Geology

Snyder, Noah P, PHD

Spring 2025

For undergraduates wishing to pursue independent study in the area of geology under the direction of a faculty member. Study can be in an area of knowledgeable interest or on a particular problem.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC559801

Undergraduate Reading and Research in Geophysics

Snyder, Noah P, PHD

Spring 2025

For undergraduates wishing to pursue independent study in the area of geophysics under the direction of a faculty member. Study can be in an area of knowledgeable interest or on a particular problem.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Undergraduate

Comments: None

Status: Offered

EESC667001

Environmental Seismology Seminar

Lamontagne, Anne

Spring 2025

One scientist's noise is another scientist's data. This seminar course will integrate many fields of earth science by focusing on applications of seismology with non-traditional seismic sources. Although seismological data has historically been used to monitor earthquakes and the deep earth interior, recently environmental and surface process scientists have been repurposing it to investigate other natural phenomena. Topics may include utilizing seismic data to study glacial dynamics, landslides, cyclones, induced seismicity and more. Students will be expected to read and report on scientific literature, and prepare and present a literature review project on a selected topic within the realm of environmental seismology.

Credits: 3

Room and Schedule: Devlin Hall 307 W 05:00PM-07:30PM

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: null

Student Level: Graduate

Comments: None

Status: Offered

EESC669701

Boston Evening Geomorphology Seminar

Wilson, Kathleen

Spring 2025

The Boston Evening Geomorphology Seminar course formalizes an ongoing multi-institution seminar series. Faculty and students from Boston College, Boston University, and MIT regularly meet at each of the universities and discuss high-impact, peer-reviewed papers on geomorphology topics. Students enrolled in the course will attend regular meetings of BEGS and lead the paper discussion when BEGS is hosted at BC. Additional meetings of BC students will cover focused topics in coastal and fluvial geomorphology.

Credits: 1

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: The course is open to graduate students and undergraduate students, with instructor permission. or Permission of Instructor

Corequisites: None

Cross-listed with: None

Frequency: null
Student Level: Both
Comments: None
Status: Offered

EESC779801

Graduate Reading and Research in Geophysics

Behn, Mark D

Spring 2025

A graduate research study of a topic in geophysics under the supervision of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC779802

Graduate Reading and Research in Geophysics

Ebel, John E

Spring 2025

A graduate research study of a topic in geophysics under the supervision of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC779901

Graduate Reading and Research in Geology

Tian, Hanqin

Spring 2025

A graduate research study of a topic in geology under the supervision of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Fall, Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC779902

Graduate Reading and Research in Geology

Wang, Xingchen

Spring 2025

A graduate research study of a topic in geology under the supervision of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Fall, Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC779903

Graduate Reading and Research in Geology

Shakun, Jeremy D

Spring 2025

A graduate research study of a topic in geology under the supervision of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: Permission of Department

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880101

Thesis Seminar

Palevsky, Hilary I

Spring 2025

Thesis research under the guidance of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880102

Thesis Seminar

Snyder, Noah P, PHD

Spring 2025

Thesis research under the guidance of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880103

Thesis Seminar

Kafka, Alan L

Spring 2025

Thesis research under the guidance of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880104

Thesis Seminar

Kruckenber, Seth C

Spring 2025

Thesis research under the guidance of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall, Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880105

Thesis Seminar

Behn, Mark D

Spring 2025

Thesis research under the guidance of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall, Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880106

Thesis Seminar

Wang, Xingchen

Spring 2025

Thesis research under the guidance of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC880107

Thesis Seminar

Baxter, Ethan

Spring 2025

Thesis research under the guidance of a faculty member.

Credits: 3

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC888801

Interim Study

Behn, Mark D

Spring 2025

Required for master's candidates who have completed all their course requirements but have not taken comprehensive examinations. Also for master's students who have taken up to six credits of Thesis Seminar but have not yet finished writing their thesis.

Credits: 0

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring

Student Level: Graduate

Comments: None

Status: Offered

EESC990101

Doctoral Continuation

Shakun, Jeremy D

Spring 2025

PhD Thesis research under the guidance of a faculty member

Credits: 1

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring,Every Summer

Student Level: Graduate

Comments: None

Status: Offered

EESC990102

Doctoral Continuation

Kafka, Alan L

Spring 2025

PhD Thesis research under the guidance of a faculty member

Credits: 1

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring,Every Summer

Student Level: Graduate

Comments: None

Status: Offered

EESC990103

Doctoral Continuation

Palevsky, Hilary I

Spring 2025

PhD Thesis research under the guidance of a faculty member

Credits: 1

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring,Every Summer

Student Level: Graduate

Comments: None

Status: Offered

EESC990104

Doctoral Continuation

Ebel, John E

Spring 2025

PhD Thesis research under the guidance of a faculty member

Credits: 1

Room and Schedule: By Arrangement

Satisfies Core Requirement: None

Prerequisites: None

Corequisites: None

Cross-listed with: None

Frequency: Every Fall,Every Spring,Every Summer

Student Level: Graduate

Comments: None

Status: Offered
