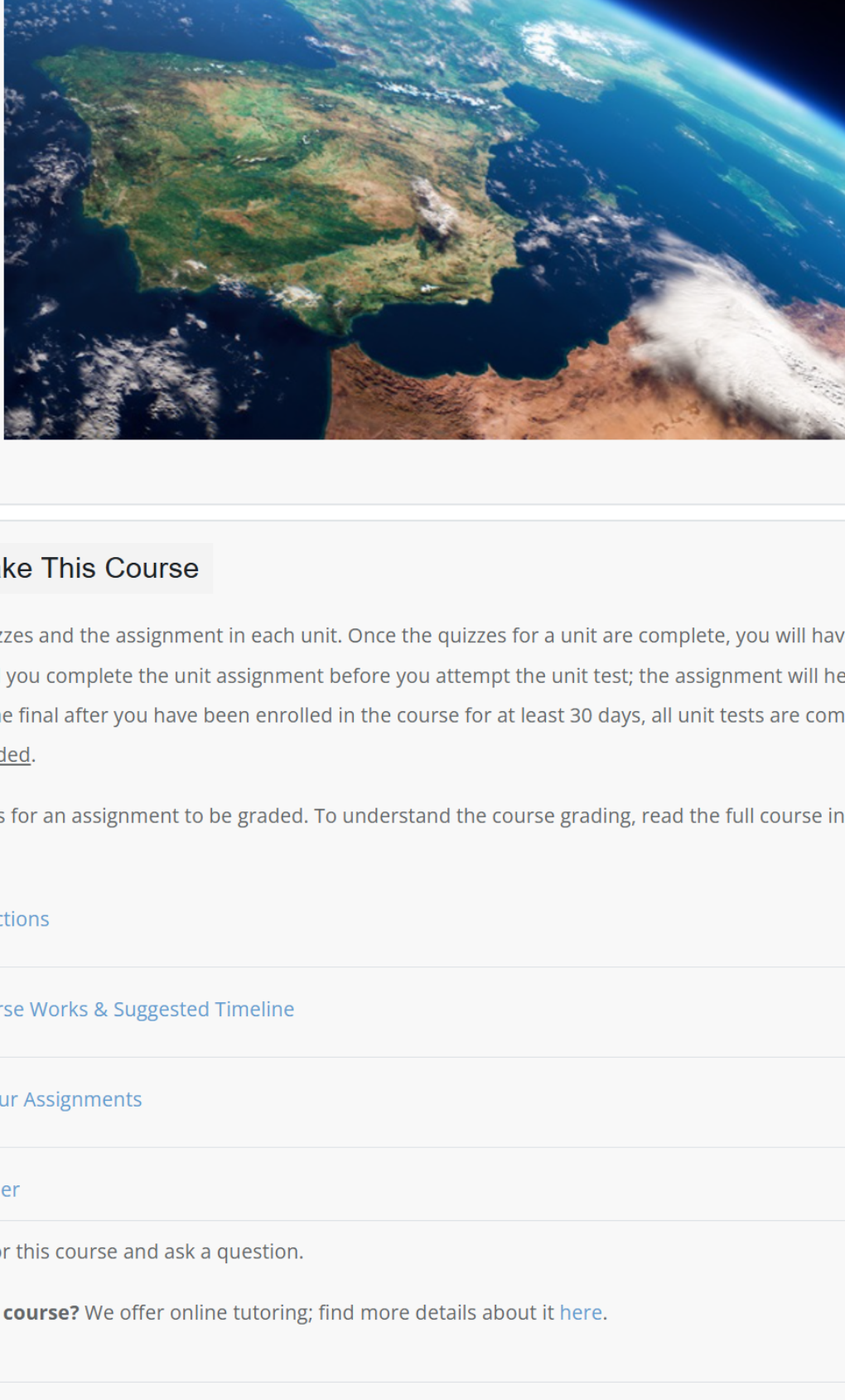


Collapse all

Earth and Space Science, Part 2

ATTENTION

Grading may take up to 7 days at semester end and during the summer semester!
Submit your **last assignment two weeks before your school's semester ends.**



How to Take This Course

Complete all the quizzes and the assignment in each unit. Once the quizzes for a unit are complete, you will have access to the unit test. We recommend you complete the unit assignment before you attempt the unit test; the assignment will help you prepare. You will have access to the final after you have been enrolled in the course for at least 30 days, all unit tests are completed, and your assignments are graded.

Allow 3-4 school days for an assignment to be graded. To understand the course grading, read the full course instructions.

Course Instructions

How This Course Works & Suggested Timeline

Submitting Your Assignments

Ask The Teacher

Meet your teacher for this course and ask a question.

Need help with the course? We offer online tutoring; find more details about it [here](#).

MANDATORY QUIZ

Completion

You are required to take this quiz before you start the course. To prepare, read the course instructions and the "submitting your assignments" document, watch the video on the how this course works page and review the suggested timeline.

Learning Objectives & Standards Met By This Course

Unit 1: The Hydrosphere and Cryosphere

In this unit, you will:

- Investigate the unique properties of water and how they support life on Earth.
- Explore the water cycle and the processes that move water between Earth's systems.
- Examine the structure and importance of Earth's oceans and their influence on climate and ecosystems.
- Learn about freshwater resources, their distribution, and the challenges involved in managing them sustainably.
- Understand the formation and significance of glaciers and permafrost, and how they are affected by environmental change.

Unit 1 Study Guide

This study guide will help you preview the concepts and guide your learning as each new skill or concept is introduced. Use this study guide as the foundation of your notes. You may use it on the unit quizzes, unit tests, and course final.

Click on the link above, and make a copy of the file. If you don't have access to Google Docs, [preview the study guide](#) and download an editable version or PDF.

1.1 Properties of Water

Quiz 1.1

Completion

1.2 The Water Cycle

Quiz 1.2

Completion

1.3 Earth's Oceans

Quiz 1.3

Completion

1.4 Freshwater Resources

Quiz 1.4

Completion

1.5 Glaciers and Permafrost

Quiz 1.5

Completion

Unit 1 Assignment: Earth's Water Systems

Completion

Unit 1 Test

Not available unless: The activity **Quiz 1.1** is marked complete ...

Show more

Unit 2: Atmosphere & Weather

In this unit, you will:

- Explore how Earth's atmosphere formed and changed over time.
- Examine the composition and structure of the modern atmosphere and the role of its different layers.
- Investigate the processes that create weather patterns and influence local and global weather conditions.
- Learn how the El Niño-Southern Oscillation affects weather and climate around the world.
- Distinguish between weather and climate and explain how scientists study each.

Unit 2 Study Guide

This study guide will help you preview the concepts and guide your learning as each new skill or concept is introduced. Use this study guide as the foundation of your notes. You may use it on the unit quizzes, unit tests, and course final.

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2.1 Earth's Early Atmosphere

Quiz 2.1

Completion

2.2 Earth's Current Atmosphere

Quiz 2.2

Completion

2.3 Weather Patterns

Quiz 2.3

Completion

2.4 El Niño Southern Oscillation

Quiz 2.4

Completion

2.5 Weather vs. Climate

Quiz 2.5

Completion

Unit 2 Assignment: Earth's Atmosphere: Then and Now

Completion

Unit 2 Test

Not available unless: The activity **Quiz 2.1** is marked complete ...

Show more

Unit 3: Climate Systems and Climate Change

In this unit, you will:

- Understand how the greenhouse effect helps regulate Earth's temperature.
- Examine natural factors that have caused climate change throughout Earth's history.
- Investigate the evidence for anthropogenic climate change and the role of greenhouse gas emissions.
- Analyze the environmental, economic, and societal impacts of climate change.
- Explore strategies for mitigating climate change and reducing human impacts on the climate system.
- Trace the movement of carbon through Earth's systems and explain the importance of the carbon cycle.

Unit 3 Study Guide

This study guide will help you preview the concepts and guide your learning as each new skill or concept is introduced. Use this study guide as the foundation of your notes. You may use it on the unit quizzes, unit tests, and course final.

Click on the link above, and make a copy of the file. If you don't have access to Google Docs, [preview the study guide](#) and download an editable version or PDF.

3.1 The Greenhouse Effect

Quiz 3.1

Completion

3.2 Natural Climate Change

Quiz 3.2

Completion

3.3 Anthropogenic Climate Change

Quiz 3.3

Completion

3.4 Impacts of Climate Change

Quiz 3.4

Completion

3.5 Climate Change Mitigation

Quiz 3.5

Completion

3.6 The Carbon Cycle

Quiz 3.6

Completion

Unit 3 Assignment: Climate Change Simulation Lab

Completion

Unit 3 Test

Not available unless: The activity **Quiz 3.1** is marked complete ...

Show more

Unit 4: Earth Resources & Human Impact

In this unit, you will:

- Compare nonrenewable resources and evaluate the benefits and challenges associated with their use.
- Explore renewable resources and how they can contribute to a more sustainable future.
- Investigate how habitat destruction affects ecosystems, biodiversity, and the survival of species.
- Examine the causes and consequences of species extinction and mass extinction events.
- Analyze different forms of pollution and their impacts on environmental and human health.

Unit 4 Study Guide

This study guide will help you preview the concepts and guide your learning as each new skill or concept is introduced. Use this study guide as the foundation of your notes. You may use it on the unit quizzes, unit tests, and course final.

Click on the link above, and make a copy of the file. If you don't have access to Google Docs, [preview the study guide](#) and download an editable version or PDF.

4.1 Nonrenewable Resources

Quiz 4.1

Completion

4.2 Renewable Resources

Quiz 4.2

Completion

4.3 Habitat Destruction

Quiz 4.3

Completion

4.4 Mass Extinctions

Quiz 4.4

Completion

4.5 Pollution

Quiz 4.5

Completion

Unit 4 Assignment: The Making of Mass Extinctions

Completion

Unit 4 Test

Not available unless: The activity **Quiz 4.1** is marked complete ...

Show more

Unit 5: Natural Hazards & Earth System Interactions

In this unit, you will:

- Explore atmospheric hazards such as hurricanes, tornadoes, and heat waves, and their impacts on people and the environment.
- Investigate hydrosphere-related hazards including tsunamis and floods, and the conditions that cause them.
- Examine geological hazards such as earthquakes, volcanic eruptions, and landslides.
- Understand how wildfires develop, the factors that influence their spread, and their effects on ecosystems and communities.
- Analyze how environmental legislation and public policy can help address environmental challenges and reduce risks to people and ecosystems.

Unit 5 Study Guide

This study guide will help you preview the concepts and guide your learning as each new skill or concept is introduced. Use this study guide as the foundation of your notes. You may use it on the unit quizzes, unit tests, and course final.

Click on the link above, and make a copy of the file. If you don't have access to Google Docs, [preview the study guide](#) and download an editable version or PDF.

5.1 Atmospheric Hazards

Quiz 5.1

Completion

5.2 Hydrosphere-Related Hazards

Quiz 5.2

Completion

5.3 Geological Hazards

Quiz 5.3

Completion

5.4 Wildfires

Quiz 5.4

Completion

5.5 Environmental Legislation

Quiz 5.5

Completion

Unit 5 Assignment: Flood Explorer Lab

Completion

Unit 5 Test

Not available unless: The activity **Quiz 5.1** is marked complete ...

Show more

Final Exam

You will have access to the final after you have been enrolled in the course for at least 30 days and when all unit tests are completed, and your assignments are graded.

Warning: You have only ONE attempt at the final. Are you ready to take the final? We highly recommend you take the practice final first, and if you are weak in any area, review the relevant course material again. You have unlimited attempts at the practice final; it will help you to prepare.

Remember, if you want to improve your grade in this course, you need to do that BEFORE you take the final exam.

Good Luck!!

Not available unless: The activity **MANDATORY QUIZ** is marked complete

Course Completion & Requesting a Transcript

Transcript - Send a transcript to your school to report the credits you earned. A transcript will list all the courses you have taken with us, including those still in progress.

Feedback - Before you go, we would appreciate your opinion on the course; please take 1 minute to complete the feedback form. We hope you enjoyed this course!

Course Feedback

Thank you for taking this course! Let us know what you think about it.

Request a Transcript

Notify your school that you have completed your course. Send them a transcript by email or mail. A transcript will list all the courses you have completed and those in progress.