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Farming and Climate Change

The online course "Farming and Climate Change" is designed for participants to understand the intricate relationship between farming practices and climate change.



Instructor
Andreea Stancu (<https://portal.greengamingexchange.se/instructor-public-account/7>)



Category
iOOC(<https://portal.greengamingexchange.se/courses-2/?terms%5B%5D=96&category%5B%5D=96>)



Students enrolled
177



ENROLL COURSE

Certificate included

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Course details

 Duration	10 hours
 Lectures	12
 Video	9 hours
 Quizzes	4
 Level	Advanced

Description Curriculum FAQ Notice Reviews Grade

Section One: Agriculture and Climate Change: A Complex Relationship

- 1 

Greenhouse Effect and Global Warming
5 weeks

This section focuses on understanding the basic science of climate change and its direct and indirect impacts on agricultural systems globally and regionally. Explore the connections between climate variables and crop productivity.

 (<https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/5645>)

- 2  **Greenhouse Effect and Global Warming QUIZ!** [\(https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/7834\)](https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/7834)
5 questions

- 3  **Rising Temperatures and Crop Productivity**  [\(https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/5660\)](https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/5660)
5 weeks

This section focuses on understanding the basic science of climate change and its direct and indirect impacts on agricultural systems globally and regionally. Explore the connections between climate variables and crop productivity.

- 4  **Rising Temperatures and Crop Productivity QUIZ!** [\(https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/7840\)](https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/7840)
5 questions

- 5  **The impact of climate variability and extremes on agriculture and food security.**  [\(https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/5667\)](https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/5667)
5 weeks

**Welcome to the Wild Side of Farming:
How Climate Variability and
Extremes Are Shaping Our Food
Future**

Farming has never been easy, but today's farmers are facing challenges that go far beyond the traditional pests and weather worries. Imagine a world where droughts last longer, floods are fiercer, and the timing of rains is as unpredictable as a dice roll. That's the reality of climate variability and extremes today. The delicate balance that crops need to thrive is increasingly at risk, creating a ripple effect that threatens global food security. In this lesson, we'll explore how these extreme weather events impact agriculture and what it means for the food we rely on.

6 **Direct vs. Indirect Impacts on Agriculture**

5 weeks

▲ (<https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/5671>)

**Farming in a Changing Climate:
Decoding Direct and Indirect Impacts
on Agriculture**

When it comes to climate change and agriculture, it's not all about the big storms and heatwaves. Some impacts are direct and easy to spot – like when drought scorches a field or heavy rains drown a crop. But other effects are sneaky, creeping up on the agricultural system in less obvious ways. These indirect impacts might be hidden at first, but they can have profound consequences on farming and food security over time. In this lesson, we'll explore both the direct and indirect ways climate change is reshaping agriculture.

7 **FLASHCARDS**

5 weeks

▲ (<https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/6205>)

Time for some flashcards

Section Two: Farming Practices at the time of Climate Change ▲

8 **Effects of Climate Change on Soil Structure and Fertility**

1 hour

▲ (<https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/5675>)

**Hidden Power of Soil: How Climate
Change Impacts Soil Structure and
Fertility**

Soil is often thought of as just “dirt,” but in reality, it's a powerhouse for life on Earth. The soil beneath our feet holds nutrients, water, and even tiny organisms that make it possible for

plants to grow, for food to be produced, and for ecosystems to thrive. But climate change is taking a toll on this vital resource, disrupting its structure, eroding its layers, and impacting its ability to support agriculture.

In this lesson, we'll dig deep into how climate change affects soil and why protecting soil health is crucial for the future of farming.

- 9  **Effects of Climate Change on Soil Structure and Fertility QUIZ!** [\(https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/7846\)](https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/7846)
5 questions

- 10  **Impact on Water Availability and Irrigation Needs**  [\(https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/5683\)](https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/5683)
5 weeks

Farming's Lifeblood: How Climate Change is Shaping Water Availability and Irrigation Needs

Water is the lifeblood of agriculture. Crops, livestock, and the soil itself depend on a consistent supply of water to thrive. However, as climate change disrupts weather patterns, this critical resource is becoming less predictable and more scarce. With rising temperatures, changing rainfall, and an increased frequency of droughts, farmers worldwide are facing new water challenges that impact food production and security. In this lesson, we'll explore how climate change affects water availability and why it's changing the way farmers approach irrigation.

- 11  **Cross words**  [\(https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/6555\)](https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/6555)
Text lesson

- 12  **Soil Erosion, Degradation, and**  [\(https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/6555\)](https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/6555)

12 **Soil Erosion, Degradation, and Conservation Techniques**

1 hour

Soil is the quiet hero of farming, supporting plant growth, holding moisture, and providing essential nutrients. But this resource is under increasing threat as climate change intensifies soil erosion and degradation. Every year, millions of tons of soil are lost to erosion, sweeping away fertile land and putting future food security at risk. In this lesson, we'll explore how climate change accelerates soil degradation, what that means for farming, and the conservation techniques that can help keep our soil safe and productive.

— (<https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/5685>)

13 **Soil Erosion, Degradation, and Conservation Techniques QUIZ!**

5 questions

(<https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/7854>)

14 **Water Management Strategies in Changing Climates**

1 hour

Water is the lifeblood of agriculture. Without it, crops wither, livestock suffers, and food supplies dwindle. But as climate change intensifies, water has become a precious, and often unpredictable, resource. Droughts, erratic rainfall, and reduced snowpacks are leaving many farming communities struggling to manage water supplies, while rising temperatures mean that plants need even more water to grow. This lesson explores how farmers can adapt by using innovative water management strategies to conserve water, maximize efficiency, and keep their crops healthy even in uncertain times.

▲ (<https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/5691>)

15 **Fill in the blank**

10 minutes

Review Water Management System

▲ (<https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/6208>)

16 **Survey**

7m

Please complete this short survey.

▲ (<https://portal.greengamingexchange.se/courses-2/farming-and-climate-change/8173>)

Popular courses



Climate Adaptation and Mitigation (<https://portal.greengamingexchange.se/courses-2/climate-adaptation-and-mitigation>)

Free



By Baze University

(<https://portal.greengamingexchange.se/instructor-public-account/1>)



Connecting with nature through nature sports (<https://portal.greengamingexchange.se/courses-2/connecting-with-nature-through-nature-sports>)

Free



By Andreea Stancu

(<https://portal.greengamingexchange.se/instructor-public-account/7>)



Permaculture Practices (<https://portal.greengamingexchange.se/courses-2/permaculture-practices>)

Free



By Andreea Stancu

(<https://portal.greengamingexchange.se/instructor-public-account/7>)



Advanced Digital Skills: use of digit...
(https://portal.greengamingexchange.se/courses-2/https-portal-greengamingexchange-se)

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By Hafte Abera (https://portal.greengamingexchange.se/instructor-public-account/5)

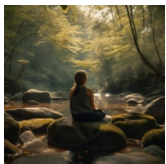
Popular Courses



Climate Adaptation and Mitigation

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Connecting with nature through nat...

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BY ANDREEA STANCU



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BY ANDREEA STANCU

ARCHIVE

Select Month



WORKING HOURS

Monday	9:30 am - 6.00 pm
Tuesday	9:30 am - 6.00 pm
Wednesday	9:30 am - 6.00 pm

Thursday

9:30 am - 6.00 pm

Friday

9:30 am - 5.00 pm

Saturday

CLOSED

Sunday

CLOSED

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