# Environmental and Sustainability Economics (Graduate Certificate)

SUESECGRCT

Do you want to understand and evaluate the trade-offs that influence decisions affecting sustainability at the individual, corporate and public policy levels? Become trained in powerful tools for evaluating human-environment interactions which you can use to help steer decision-making in more sustainable directions.

## Program description

**Degree awarded: Certificate Environmental and Sustainability Economics (Certificate)**
The graduate certificate program in environmental and sustainability economics provides training in the economic theory and quantitative modeling tools of environmental and resource economics. Environmental and resource economics provides an approach for evaluating the consequences, social benefits and costs of changes to markets and environmental policies.

Prospective students for this certificate include current master's and doctoral students in fields with a sustainability, environmental science or policy focus --- including sustainability, public affairs, biology, environmental social science, applied mathematics and agribusiness --- in which training in environmental and resource economics may be complementary to research interests or career development. To pursue this certificate, students must be concurrently enrolled in a graduate degree-granting program.

Graduates of the certificate program are able to identify and evaluate the economic assumptions embedded in policy analyses and recommendations. They are also able to critically evaluate the validity of publications in environmental and resource economics; apply economic modeling approaches to authentic cases; utilize econometric techniques to evaluate causal claims and generate predictions; and test hypotheses using applied economic models.

## At a glance

- **College/School:** College of Global Futures
- **Location:** Downtown Phoenix, Polytechnic, Tempe

# Degree requirements

17 credit hours

**Required Core (5 credit hours)**
SOS 512 Environmental and Resource Economics (3)
SOS 529 Research Seminar in Environmental and Sustainability Economics (2)

**Electives (12 credit hours)**

**Additional Curriculum Information**
Students choose one elective course in each of the following categories: microeconomic theory, statistical and econometric modeling, environmental and resource economics, and modeling and empirical methods.

Students should see the academic unit for a list of approved electives.

# Admission requirements

Applicants must fulfill the requirements of both the Graduate College and the College of Global Futures.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree in any field from a regionally accredited institution.

Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable master's degree program.

All applicants must submit:

1. graduate admission application and application fee
2. official transcripts
3. proof of English proficiency

**Additional Application Information**
An applicant whose native language is not English must provide proof of English proficiency regardless of their current residency.

International students who need an F1 or J1 visa first need to apply to and be accepted into a graduate degree program prior to being considered for the certificate program. International students residing in the USA on other types of visas must adhere to all Graduate College policies and procedures regarding admission to be considered for admission to this certificate program.

There is no prerequisite coursework; however, it is strongly recommended that students have at least one semester of calculus or the equivalent such as MAT 251 Calculus for Life Sciences, MAT 265 Calculus for Engineers or SOS 211 Calculus and Probability.

## Tuition information

When it comes to paying for higher education, everyone's situation is different. Students can learn about ASU tuition and financial aid options to find out which will work best for them.

## Application deadlines

**Fall**

**Spring**

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## Global opportunities

**Global experience**

Studying abroad is encouraged for graduate students. Nearly all of the College of Global Futures faculty-directed programs offer graduate credit. In addition, the Global Education Office offers more than 50 program opportunities, with programs on every continent.

Faculty-directed programs tend to be the best fit for graduate students; taking courses with ASU professors over the summer or during academic breaks offers students close mentorship and professional network growth in many fields of study while they earn ASU credit. Exchange program participation is also possible with careful planning.

Students can find programs specific to their interests on the College of Global Futures Study Abroad webpage, and additional opportunities and information on the ASU Global Education Office website. These sites also include additional information about applying for funding to support global travel.

## Career opportunities

Professionals with expertise in environmental and resource economics are in demand across sectors and industries, including business, sustainability, government, biology and applied mathematics.

Career examples include:

- chief sustainability officer
- economist
- environmental economist
- environmental engineer

- environmental protection specialist
- environmental restoration planner
- health sciences manager
- postsecondary environmental sciences professor
- sustainability specialist

## Contact information

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