Energy and Sustainability (Graduate Certificate)

Do you want to learn more about guiding society's transition to sustainable energy? Develop interdisciplinary expertise in sustainable energy transitions in this program that complements your existing area of study.

Program Description

Degree Awarded: Certificate Energy and Sustainability (certificate)
The global energy system is a complex socio-technical system. Leaders in sustainable energy require a transdisciplinary perspective that combines technical, economic, social and policy dimensions of energy systems. The certificate in energy and sustainability is designed to train students from diverse educational backgrounds who are in graduate-level energy-related fields to see beyond the boundaries of traditional methodologies and disciplinary viewpoints, enabling them to integrate technological knowledge with societal insights.

Graduates of the program have a basic understanding of sustainable energy technology and systems, including social dimensions such as markets and policies. They understand energy transitions as a dynamic socio-technical process, and they are able to perform analyses of energy generation, consumption and costs, and how these metrics can be utilized in policy discussions.

At a Glance

- College/School: College of Global Futures
- Location: Tempe

Degree Requirements
15 credit hours

**Required Core (6 credit hours)**
SOS 572 Sustainable Energy Transitions (3)
SOS 574 Data Analytics for Sustainable Energy (3)

**Electives (9 credit hours)**
technical fundamentals of energy systems elective (3)
policy and governance of energy systems elective (3)
restricted elective (3)

**Additional Curriculum Information**
Students should contact the academic unit for the most recent approved elective coursework. Other coursework may be used with approval of the academic unit.

**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 applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable master's degree program.

Applicants are required to 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 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.

**Application Deadlines**
Career Opportunities

Future energy challenges will be addressed by leaders who understand the complexity and dynamics of global energy systems and can communicate with diverse stakeholders to implement adaptive solutions. Graduates with this certificate are competitive for employment opportunities in academia, industry or government.

Career examples include:

- policy analyst
- project manager
- regulatory affairs specialist
- renewable energy engineer
- strategy consultant

Contact Information

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