

# MINOR: ENVIRONMENTAL SUSTAINABILITY

## Student Learning Outcomes

Students graduating from this program will:

- Sustainability students can describe the interactions and feedbacks of Earth systems, have knowledge of environmental policy and urban planning, and are engaged in sustainability issues at many scales.
- Sustainability students will be actively involved with diverse communities throughout their course work, and assess sustainability challenges from multiple cultural perspectives and through world experiences.
- Sustainability students will demonstrate this learning through the application of advanced sustainable knowledge, quantitative, and analytical skills in their application to new settings and complex problems.
- Sustainability students will have the ability to characterize human-environmental interactions analytically and communicate their findings effectively.

## Program Description

Global populations are becoming predominantly urban and the state of the environment is central to issues of quality of life, health and safety. The Sustainability minor program provides students with the most innovative preparation in urban environmental sustainability through course work that cross cuts multiple disciplines and focuses on integrative solutions. Students develop a foundation knowledge in Earth systems. Students engage the challenges of sustainability through course work and community problem solving in sustainable thinking, planning, policy, and design. Undergraduate students gain essential life skills, a foundation in complex environmental and human systems, and critical problem solving skills.

## Program Requirements

Code	Title	Credits
<b>Required</b>		
Take three hours of the following:		3
ENV-SCI 496	Environmental Internship	
<b>Earth Systems and Resources</b>		
Select one of the following:		3-4
BIOLOGY 302	General Ecology	
ENV-SCI 449	Global Water and Sustainability	
GEOG 314	Principles of Geomorphology	
GEOG 360	Principles of Biogeography	
GEOG 406	Global Environmental Change	
<b>Sustainable Thinking</b>		
Select one of the following:		3
ANTHRO 326	Consumer Society	
ENV-SCI 332CZ	Environmental Sustainability	
HISTORY 365A	American Environmental History	
POL-SCI 435	Environmental Politics	
<b>Sustainable Planning and Policy</b>		
Select one of the following:		3
ANTHRO 331	Urban Anthropology	
ENV-SCI 321	Climate Change Impact Assessment and Policy Response	
PUB-ADM 420	Urban Environmental Policy	
UPD 430	Planning For Historic Preservation	
UPD 435	Natural Hazards and Disaster Planning	
<b>Sustainable Design</b>		
Select one of the following:		3
ECON 420	Environment, Resources And Economic Growth	
LAW 8757N	Entrepreneurship and New Venture Creation	
UPD 340	Neighborhood And Community Development	
UPD 432	Urban Environment Planning And Design	
<b>Analytical Tools</b>		

Select one of the following:

3-4

GEOG 401	Advanced Geographic Information Science
GEOG 450	Gis Fundamentals for Research Applications
GEOG 444	Spatial Data Analysis
UPD 420	Transportation Planning

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**Total Credits**

**18-20**

Courses which do not apply as credit in the Minor program are: GEOG 417, GEOG 398, ENV-STDY 499WI

## Requirements

Minimum of 18 hours, Minimum of 9 hours from UMKC

Minimum of 9 Junior/Senior (300/400) level courses.