

Minor in Sustainability

Offered through the College of Innovation and Design

Student Learning Outcomes

1. Apply sustainability related science and technology tools
2. Develop ethical reasoning to address sustainability issues
3. Identify appropriate sustainability policies

General Requirements

- Hours:

Category	Minimum Hours
Core	6
Concentration	6
In Practice	3
Electives	As needed
Total	15*

**at least 3 credit hours of unduplicated coursework*

- Levels: at least 6 hours at 300+ level
- Area: at least 6 hours from outside student's home department

Core (6 hours - minimum GPA of 2.000 in the core course)

- Successfully complete two of the following courses to apply for this minor:
 - BIOL 370 - Introductory Environmental Science
 - EE 777J - Sustainability and Energy
 - ENGT 370 - Environmental Engineering Technology
 - GEOL 200 - Introduction to Environment and Sustainability
 - GEOL 300 - Energy, Resources and Environment
 - ME 360D - Sustainability and Technology
 - ME 702/PHYS 702 - Energy and Sustainability
 - PHS 416 : Introduction to Environmental Health
 - WSUA 102A - Energy Science and The Environment (FYS)
 - WSUA 102U - Building a Sustainable Planet (FYS)

Concentrations (minimum 6 hours)

Select two of the following concentrations and take at least six (6) hours of courses:

- *Behavioral and Social*
 - Courses

Course	Hours	Title
EEPS 721	3	Current Issues in Global Environmental Science
GEOL 690AC	2	Issues in Marine Environments

Course	Hours	Title
HNRS 398K	1-3	Travel Seminar: Costa Rica Sustainability
LASI 300	3	Global Issues
SCWK 610Z	1-3	Eco-Sustainability in SCWK
WOMS 508	3	Women and the Environment
WSUA 102A	3	Energy Science and The Environment
WSUA 102U	3	Building a Sustainable Planet
ID720	3	Sustainable Teams & Organizations

- ***Economic and Finance***

- Courses

Course	Hours	Title
IME 255	3	Engineering Economy
FIN 635	3	Commodity and Energy Trading

- ***Energy Efficiency and Waste Management***

- Courses

Course	Hours	Title
ECE 596	3	Renewable Energy Engineering (?)
EE 777J	3	Sustainability and Energy
ENGT 370	3	Environmental Engineering Technology
ENGT 510	3	Solar and Wind Engineering
ENGT 492	3	Energy Management and Sustainability
ENGT 600	3	Water and Wastewater Treatment
ENGT 610	3	Hydraulics and Hydrology
IME 780AL	3	Energy Analytics & Management
ME 360D	3	Sustainability and Technology
ME 702	3	Energy and Sustainability
ME 753	3	Advanced Materials for Energy Systems

- ***Ethics and Policy***

- Courses

Course	Hours	Title
PADM 785	3	Public Works Administration
PHIL 530	3	Ethics of Space Exploration
PHIL 590AD	3	Environmental Ethics
POLS 305	3	Environmental Politics
POLS 340	3	Global Challenges

- ***Natural Science and Public Health***

- Courses

Course	Hours	Title
BIOL 370	3	Introductory Environmental Science
BIOL 418	4	General Ecology
BIOL 530	3	Applied and Environmental Microbiology
BIOL 560	2	Plant Ecology
BIOL 561	2	Plant Ecology Lab
BIOL 570	3	Conservation Biology
BIOL 575	3	Field Ecology
GEOG 235	3	Meteorology
GEOL 102	3-4	Earth Science and the Environment
GEOL 200	3	Introduction to Environment and Sustainability
GEOL 235	3	Meteorology
GEOL 300	3	Energy, Resources and Environment
GEOL 310	3	Oceanography
GEOL 570	3	Biogeology
GEOL 621	3	Geochemical Cycling
GEOL 640	6	Field Geology
GEOL 650	3	Geohydrology
GEOL 657	3	Earth Science Instructional Methods
GEOL 678	3	Geologic Perspectives on Climatic Change
GEOL 690G	3	Applied Environmental Geology
PHS 416	3	Introduction to Environmental Health
PHS 816	3	Environmental Health
PHYS 761	3	Environmental Physics

In Practice (3 hours)

- Required exit course:

Course	Hours	Title
ID 509	3	Applied Sustainability & Innovation

Electives (as needed)

Select as many courses as needed to complete the requirement. Courses may be chosen from the declared or other concentrations as well as core area that were not already counted towards other category requirements.

For additional information, please contact:

Maggie Schoonover
Director of Sustainable Innovation
College of Innovation & Design
Maggie.schoonover@wichita.edu