

# Sustainability, Certificate

## Requirements

The undergraduate Certificate in Sustainability requires 24 s.h. of credit. Students must maintain a grade-point average of at least 2.00 in work for the certificate.

The certificate may be earned by any student admitted to the University of Iowa who is not enrolled in a UI graduate or professional degree program. Undergraduate to Graduate (U2G) students may earn the certificate when the undergraduate classification is primary.

Work for the certificate includes four introductory core courses, three courses from preapproved breadth area electives, and one project/integrative systems course. Students may be able to count certificate courses toward requirements for other majors, minors, or other certificates. They may count a maximum of three courses in a single department or program toward the certificate. A maximum of 6 s.h. of approved transfer credit may be counted toward the certificate. Certificate courses may not be taken pass/nonpass. A course may be used to satisfy only one certificate requirement.

Individuals must declare their intent to earn the certificate; see the Certificate in Sustainability website for details.

Sustainability embraces many disciplines, methodologies, and institutional practices. Certificate students must have knowledge of the interdisciplinary nature of the field, which is represented by the program's breadth electives: dynamics of natural systems; dynamics of human systems; and communication, ethics, and interpretation. They also must have experience with analyzing real-life problems in and outside of the classroom and in working collaboratively to solve such problems.

The Certificate in Sustainability requires the following coursework.

## Introductory Core

Course #	Title	Hours
Both of these:		
GEOG:1070	Contemporary Environmental Issues	3
GEOG:2013/ BUS:2013/ SUST:2013/ URP:2013	Introduction to Sustainability	3
One of these:		
ENGL:1510	Introduction to Environmental Literature	3
JMC:1800	Twenty-first-Century Science: Environmental Communication in the Digital Age	3
One of these:		
EES:1080/ ENVS:1080	Introduction to Environmental Science	3-4
EES:1085/ ENVS:1085	Fundamentals of Environmental Science	4

## Breadth Electives

Students complete at least 3 s.h. in each of the following three breadth areas.

### Dynamics of Natural Systems

Course #	Title	Hours
At least 3 s.h. from these:		
BIOL:1260	Plants and Human Affairs	3
BIOL:2374/ GEOG:2374	Biogeography	3
BIOL:2673/ ENVS:2673	Ecology	3
CBE:2040	Environment, Energy, and Climate Change	3
CBE:2050/CEE:2050	Severe and Unusual Weather	3
CBE:5405	Green Chemical and Energy Technologies	3
CBE:5425/CEE:5115	Atmospheric Chemistry and Physics	3
CEE:4102	Groundwater	3
CHEM:4873	Atmospheric and Environmental Chemistry	3
EES:1040	Evolution and the History of Life	3-4
EES:1290	Energy and the Environment	3
EES:1400	Natural Disasters	3
EES:2310/ GEOG:2310	Introduction to Climatology	3
EES:3070	Marine Ecosystems and Conservation	3
EES:4630	Hydrogeology	4
GEOG:1020	The Global Environment	3
GEOG:2950	Environmental Conservation	4
GEOG:3340	Ecosystem Services	3
IALL:3131	Ecology	4
Or both of these:		
EES:2010/ ENVS:2010/ GEOG:2010	Interdisciplinary Environmental Seminar	1
EES:3080	Introduction to Oceanography	2

### Dynamics of Human Systems

Course #	Title	Hours
At least 3 s.h. from these:		
AMST:1154	Food in America	3
ANTH:1046/ GEOG:1046/ GWSS:1046/ SJUS:1046	Environmental Politics in India	3
ANTH:2100	Anthropology and Contemporary World Problems	3
ANTH:2261	Human Impacts on the Environment	3
ANTH:3103	Environment and Culture	3
ANTH:3240/ NAIS:3240	Cultural Resources Management Archaeology: Practice and Practicalities	3

ANTH:3260	Pleistocene Peopling of the Americas	3
ARTH:1090	Earthly Paradises: A Global History of Gardens	3
ARTH:3090	Contemporary Architecture	3
CBE:2030	Energy and Society	3
CBE:4459/ CEE:4159/IGPI:4159	Air Pollution Control Technology	3
CEE:3790	Resilient Infrastructure and Emergency Response	3
CEE:4158/ OEH:4920	Solid and Hazardous Wastes	3
CHEM:1050	Chemistry of Our World	3
CPH:2200	Climageddon: Understanding Climate Change and Associated Impacts on Health	3
CPH:3500/ GHS:3500	Global Public Health	3
CPH:4200	Agriculture, Food Systems, and Sustainability	3
ECE:5630	Sustainable Energy Conversion	3
ECON:3625/ URP:3135	Environmental and Natural Resource Economics	3
ECON:3650	Policy Analysis	3
EES:1115/ ENVS:1115/ GEOG:1115/ HIST:1115	The History of Oil	3
EES:4790	Applied Environmental Geology	3
GEOG:1090	Globalization and Geographic Diversity	3
GEOG:2110/ GHS:2110	Eight Billion and Counting: Introduction to Population Dynamics	3
GEOG:2410	Environment and Development	3
GEOG:2910	The Global Economy	3
GEOG:3070/ GHS:3070	Hungry Planet: Global Geographies of Food	3
GEOG:3210/ CPH:3400	Health, Work, and the Environment	3
GEOG:3300/ GHS:3300	Envisioning Future Worlds: Sustainable Development and Its Alternatives	3
GEOG:3420	Sustainable and Green Building Concepts	3
GEOG:3780/ GHS:3780/ HIST:3240/ POLI:3431	U.S. Energy Policy in Global Context	3
GEOG:3800	Environmental Economics and Policy	3
GEOG:3920/ URP:3001	Planning Livable Cities	3
GEOG:4150/ GHS:4150/ IGPI:4150	Health and Environment: GIS Applications	3
GEOG:4750/ URP:4750	Environmental Impact Analysis	3

GHS:3162/ HIST:3162	History of Global Health	3
GHS:3560	Global Garbage and Global Health	3
HIST:3247	American Disasters	3
HIST:3263	American Ruins	3
IS:3200	Sustainable Development	3
ME:4048	Energy Systems Design	4
NAIS:1290/ AMST:1290/ GHS:1290/ HIST:1290	Native American Foods and Foodways	3
PBAF:2020/ URP:2020	Environment and Society: Sustainability, Policy, and Politics	3
POLI:1400	Introduction to Comparative Politics	3
POLI:1500	Introduction to International Relations	3
POLI:2417	Comparative Environmental Policy	3
POLI:3424	Global Development	3
SOC:1040	Energy, Sustainability, and Society	3
TDSN:3200	Product Design	4
TDSN:4010	Furniture Design I	4
URP:6253/ PBAF:6253	Designing Sustainable and Healthy Cities	1-3
URP:6256/ PBAF:6256	Environmental Policy	3

## Communication, Ethics, and Interpretation

Course #	Title	Hours
At least 3 s.h. from these:		
AFAM:2770/ GHS:2770/ SOC:2770	Black and White Community Politics	3
CNW:2740	The Art and Craft of Writing about the Environment	3
ENGL:2329	Topics in Modern British Literature Before 1900 (when topic is British literature and environmental history)	3
ENGL:3165	Literature and the Environment	3
ENTR:3500	Social Entrepreneurship	3
FREN:1007	Nature/Ecology French Philosophy and Fiction	3
GEOG:4770/ AFAM:4770/ GHS:4770	Environmental Justice	3
HIST:3230	American Environmental History	3
JMC:3185	Topics in Understanding Media (when topic is risk communication)	3
LAW:8622	International Environmental Law	3
MGMT:2000	Introduction to Law	3

RHET:3700	Advocacy and Sustainability: Crafting Stories of People, Place, and Resilience	3
SCLP:3895	Topics in Sculpture (when topic is art at the edge of the landfill)	4
URP:6273/ PBAF:6273	Community Development Through Creative Placemaking	3

## Project/Integrative Systems

All students complete coursework from the following.

Course #	Title	Hours
At least 3 s.h. from these:		
ABRD:3445	India Winterim (with consent of advisor)	3
ANTH:2261	Human Impacts on the Environment	3
CBE:4410/CEE:4107	Sustainable Systems	3
CNW:3660	Multimedia Writing (when topic is environmental writing and filmmaking)	3
EES:3150	Sustainability Project	2
ENTR:3700	Sustainable Product Innovation and Management	3
ENTR:4100	International Entrepreneurship, Culture, and Social Impact	3
ENVS:3230	Special Topics (when topic is prairie restoration)	3
EVNT:3180	Sustainable Events	3
GEOG:2930	Water Resources	3
GEOG:3001	Special Topics (when topic is sustainability)	3
GEOG:3400	Iowa Environmental Policy in Practice	3
GEOG:3760/ GHS:3760	Hazards and Society	3
GHS:4100	Topics in Global Health (when topic is sustainability)	3
MKTG:4250	Marketing and Sustainability	3
TDSN:3260	Design for Production (when topic is special issues and topics in design)	4
URP:4170	Megacities Seminar	3
URP:4752	Eight Generation Planning: Envisioning Regenerative Cities	3
URP:6256/ PBAF:6256	Environmental Policy	3
URP:6273/ PBAF:6273	Community Development Through Creative Placemaking	3