SUSTAINABILITY MINOR

Sustainability is often defined as "meeting the needs of today without compromising the ability of future generations to meet their own needs." The minor in sustainability at Iowa State University is available to any ISU student who wants to further learn about sustainability issues affecting humans today and in the future.

The interdisciplinary minor in sustainability exposes students to ideas and issues related to a sustainable, balanced and ethical future for the planet and its inhabitants. The minor is at the interplay between environmental, social and economic factors in improving the quality of human life within the capacity of supporting ecosystems.

The minor will help students understand the dynamics of biological population growth and decline in the natural world, predator-prey models, over-exploitation of natural resources, energy balances, and much more. Students also will learn how human behavior affects the natural world and the ability of earth to sustain life.

In addition, students in the minor will understand how the decisions they make as consumers, workers, resource owners, citizens and policymakers affect human welfare in this and future generations. Students also will be able to articulate why some environmental, social and economic profiles are sustainable and others are not.

The minor will provide students knowledge sufficient to apply sustainable practices in their personal and professional lives.

The colleges of Agriculture and Life Sciences, Design, Engineering, and Liberal Arts and Sciences sponsor the minor in sustainability.

Requirements for the minor in sustainability

The minor in sustainability may be earned by completing a total of 15 credits including two required courses and nine elective credits from an approved list. Of the nine elective credits, at least six credits must be at the 300 level or higher. The minor must include at least 9 credits that are not used to meet any other department, college, or university requirement.

Required courses:

Emphasis Electives:					
ANTHR 230	Globalization and the Human Condition	3			
SOC 220	Globalization and Sustainability	3			

A B E 325	Biorenewable Systems	3
A B E 380	Principles of Biological Systems Engineering	3
A B E 388	Sustainable Engineering and International Development	3

A B E 480	Engineering Analysis of Biological Systems	3
AGRON 120	Introduction to Renewable Resources	3
AGRON 160	Water Resources of the World	3
AGRON 342	World Food Issues: Past and Present	3
AGRON 342H	World Food Issues: Past and Present, Honors	3
AGRON 404	Global Change	3
AGRON 446	International Issues and Challenges in Sustainable	3
	Development	
AGRON 450	Issues in Sustainable Agriculture	3
ANTHR 336	Global Development	3
ARCH 345	Building Science and Technology I	2
ARCH 346	Building Science and Technology II	3
ARCH 346L	Building Science and Technology II Lab	2
ARCH 347	Building Science and Technology III	3
ARCH 347L	Building Science and Technology III Lab	2
ARCH 348	Building Science and Technology IV	3
ARCH 348L	Building Science and Technology IV Lab	2
ARCH 445	Building Science and Technology V	2
ARCH 558	Sustainability and Green Architecture	3
ARCH 575	Contemporary Urban Design Theory	3
ARCH 597	Seminar on the Built Environment III: Theory	3
ARTIS 460	Sustainable Design and Fabrication of Furniture	3
ARTIS 465	Artists, Designers and Sustainable Development	3
ARTIS 466	Studio Abroad: Africa	3
BIOL 204	Biodiversity	2
BIOL 355	Plants and People	3
BIOL 381	Environmental Systems I: Introduction to	3-4
	Environmental Systems	
BIOL 382	Environmental Systems II: Analysis of	3
	Environmental Systems	
BIOL 471	Introductory Conservation Biology	3
BIOL 472	Community Ecology	3
BIOL 484	Ecosystem Ecology	3
C E 388	Sustainable Engineering and International	3
	Development	
C R P 201	The North American Metropolis	3
C R P 291	World Cities and Globalization	3
C R P 293	Environmental Planning	3
C R P 320	Urban Geography	3
CRP417	Urban Revitalization	3
C R P 429	Planning in Developing Countries	3
C R P 445	Transportation Policy and Planning	3
C R P 484	Sustainable Communities	3

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SUS E 521	Foundation of Sustainable Design	3
SUS E 531	Human Dimensions of Sustainability	3
SUS E 540	Methods for Sustainable Design	3
SUS E 550	Making Resilient Environments	3
TSM 324	Soil and Water Conservation Management	3
TSM 325	Biorenewable Systems	3
WLC 484	Technology, Globalization and Culture	3