***Twin Cities Campus***

# Sustainability Studies Minor

*College of Food, Agri & Natural Resource Sciences*

**College of Food, Agricultural and Natural Resource Sciences**

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2016
- Required credits in this minor: 15 to 18
- NA

One of the greatest challenges facing the 21st-century world is jointly sustaining the environment, as well as human health and well-being. The sustainability studies minor provides students from across the University with a unique opportunity to address this sustainability challenge. Students will explore the fundamental ecological, social, ethical, political, and economic forces that influence the long-term quality and viability of human society and the natural environment. The introductory core course provides a conceptual overview of various models for understanding sustainability, and uses case studies to demonstrate the challenges of putting sustainability into practice. Additional electives are chosen from courses that explore multiple disciplinary perspectives related to sustainability. Finally, the capstone experience allows students to synthesize and apply their knowledge to real sustainability problems.

For this minor, students must complete 6 credits of required courses for the core and the capstone, and 9-12 restricted electives, for a total of 15-18 credits.

## Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

## Minor Requirements

**Core**

SUST 3003 - Sustainable People, Sustainable Planet [ENV] (3.0 cr)
SUST 4004 - Sustainable Communities (3.0 cr)

**Electives**

Take three courses, not more than one from each of four categories. You may also petition for study abroad, summer, special topics, new, and other courses to count toward elective requirements. You may complete up to one online course as an elective. You may complete up to one 1xxx or 2xxx level elective, pending approval from the minor advisor or coordinator.
Take 3 or more course(s) from the following:

**Economics and Policy**

Take no more than 1 course(s) from the following:
•AFEE 3361 *{Inactive}*[GP] (3.0 cr)
•AFEE 5361 *{Inactive}*(3.0 cr)
•APEC 3611W - Environmental and Natural Resource Economics [ENV, WI] (3.0 cr)
•CEGE 5212 - Transportation Policy, Planning, and Deployment (3.0 cr)
•CEGE 5214 - Infrastructure Systems Engineering (3.0 cr)
•ESPM 3241W - Natural Resource and Environmental Policy [SOCS, CIV, WI] (3.0 cr)
•ESPM 3245 - Sustainable Land Use Planning and Policy [ENV] (3.0 cr)
•ESPM 3251 - Natural Resources in Sustainable International Development [GP] (3.0 cr)
•ESPM 3261 - Economics and Natural Resources Management [SOCS, ENV] (4.0 cr)
•ESPM 3602 - Regulations and Corporate Environmental Management (3.0 cr)
•ESPM 3603 - Environmental Life Cycle Analysis (3.0 cr)
•ESPM 3604 - Environmental Management Systems and Strategy (3.0 cr)
•ESPM 4242 - Methods for Environmental and Natural Resource Policy Analysis (3.0 cr)
•ESPM 5602 - Regulations and Corporate Environmental Management (3.0 cr)
•GCC 3001 *{Inactive}*[ENV] (3.0 cr)
•GCC 5008 - Policy and Science of Global Environmental Change [ENV] (3.0 cr)
•PA 5232 - Transportation Policy, Planning, and Deployment (3.0 cr)

**•Social Science and Humanities**

Take no more than 1 course(s) from the following:
•ANTH 3041 *{Inactive}*(3.0 cr)
•ANTH 4053 - Economy, Culture, and Critique [SOCS, GP] (3.0 cr)
•ENGL 3501 - Public Discourse: Coming to Terms with the Environment [LITR, ENV] (3.0 cr)
•ESPM 3011W - Ethics in Natural Resources [CIV, WI] (3.0 cr)

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- GEOG 3379 - Environment and Development in the Third World [SOCS, ENV] (3.0 cr)
- GLOS 3303 *{Inactive}*[SOCS, ENV] (3.0 cr)
- GLOS 3613W - Stuffed and Starved: The Politics of Eating [SOCS, GP, WI] (3.0 cr)
- GLOS 4305 *{Inactive}*[ENV] (3.0 cr)
- GLOS 4311 - Power, Justice & the Environment [DSJ] (3.0 cr)
- HSCI 3244 - Nature's History: Science, Humans, and the Environment [HIS, ENV] (3.0 cr)
- HECU 3592 *{Inactive}*(4.0 cr)
- PHIL 3301 - Environmental Ethics [ENV] (4.0 cr)
- SOC 3613W - Stuffed and Starved: The Politics of Eating [SOCS, GP, WI] (3.0 cr)
- SOC 4305 - Environment & Society: An Enduring Conflict [ENV] (3.0 cr)
- SOC 4311 - Power, Justice & the Environment [DSJ] (3.0 cr)

**•Biophysical Sciences**

Take no more than 1 course(s) from the following:

- AGRO 3203W - Environment, Global Food Production, and the Citizen [GP, WI] (3.0 cr)
- AGRO 5321 - Ecology of Agricultural Systems (3.0 cr)
- ANSC 3203W - Environment, Global Food Production, and the Citizen [GP, WI] (3.0 cr)
- CHEM 4601 - Green Chemistry [ENV] (3.0 cr)
- EEB 3001 - Ecology and Society [ENV] (3.0 cr)
- EEB 3407 - Ecology (3.0 cr)
- EEB 3408W - Ecology [WI] (4.0 cr)
- EEB 4609W - Ecosystem Ecology [ENV, WI] (3.0 cr)
- ESCI 3005 - Earth Resources (3.0 cr)
- ESCI 3402 - Science and Politics of Global Warming [ENV] (3.0 cr)
- ESPM 3108 - Ecology of Managed Systems [ENV] (3.0 cr)
- FNRM 3101 - Park and Protected Area Tourism (3.0 cr)
- FW 4102 - Principles of Conservation Biology [ENV] (3.0 cr)
- GEOG 3401W - Geography of Environmental Systems and Global Change [ENV, WI] (3.0 cr)
- HORT 3131 - Student Organic Farm Planning, Growing, and Marketing (3.0 cr)
- HECU 3591 *{Inactive}*(4.0 cr)
- ESCI 5402 - Science and Politics of Global Warming (3.0 cr)

**•Design and Technology**

Take no more than 1 course(s) from the following:

- ARCH 4561 - Architecture and Ecology [ENV] (3.0 cr)
- BBE 4733 - Renewable Energy Technologies [TS] (3.0 cr)
- CEGE 3501 - Introduction to Environmental Engineering [ENV] (3.0 cr)
- CEGE 4561 - Solids and Hazardous Wastes (3.0 cr)
- CEGE 5570 *{Inactive}*(3.0 - 9.0 cr)
- CEGE 5571 *{Inactive}*[GP] (3.0 - 4.0 cr)
- CEGE 5572 *{Inactive}*(1.0 - 2.0 cr)
- CEGE 5573 *{Inactive}*(1.0 - 5.0 cr)
- CHEN 5551 *{Inactive}*(3.0 cr)
- ESPM 3601 - Sustainable Housing--Community, Environment, and Technology [TS] (3.0 cr)
- HSG 3482 *{Inactive}*[TS] (3.0 cr)
- LA 3003 - Climate Change Adaptation (3.0 cr)
- LA 3004 *{Inactive}*(4.0 cr)
- LA 3501 - Environmental Design and Its Biological and Physical Context [ENV] (3.0 cr)
- LA 3514 *{Inactive}*[CIV] (3.0 cr)
- LA 4755 *{Inactive}*[TS] (3.0 cr)
- URBS 3751 - Understanding the Urban Environment [ENV] (3.0 cr)
- LA 5514 *{Inactive}*(3.0 cr)

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