

LSC Use Only  
 Proposal No: LSC  
 Action-Date:

UWUCC Use Only Proposal No: 14-89a  
 UWUCC Action-Date: AP-2/24/15 Senate Action Date: App-4/28/15

**Curriculum Proposal Cover Sheet - University-Wide Undergraduate Curriculum Committee**

Contact(s) Susan Comfort, Brian Cope, Chris Jeffords, Amanda Poole, Karen Rose Cercone, Josiah Townsend, Tami Whited	Email <a href="mailto:scomfort@iup.edu">scomfort@iup.edu</a> , <a href="mailto:pooleab@iup.edu">pooleab@iup.edu</a>
Proposing Department/Unit: CHSS-CNSM/Sustainability Studies Comm.	Phone x2261, x2735

Check all appropriate lines and complete all information. Use a separate cover sheet for each course proposal and/or program proposal.

**1. Course Proposals (check all that apply)**

New Course                      Course Prefix Change                      Course Deletion

Course Revision                      Course Number and/or Title Change                      Catalog Description Change

Current course prefix, number and full title: \_\_\_\_\_

Proposed course prefix, number and full title, if changing: \_\_\_\_\_

**2. Liberal Studies Course Designations, as appropriate**  
 This course is also proposed as a Liberal Studies Course (please mark the appropriate categories below)

Learning Skills    Knowledge Area    Global and Multicultural Awareness    Writing Across the Curriculum (W Course)  
 Liberal Studies Elective (please mark the designation(s) that applies – must meet at least one)

Global Citizenship                      Information Literacy                      Oral Communication

Quantitative Reasoning                      Scientific Literacy                      Technological Literacy

**3. Other Designations, as appropriate**

Honors College Course                      Other: (e.g. Women's Studies, Pan African)

**4. Program Proposals**

Catalog Description Change                      Program Revision                      Program Title Change                      New Track

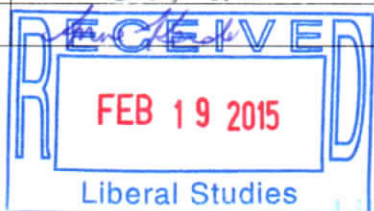
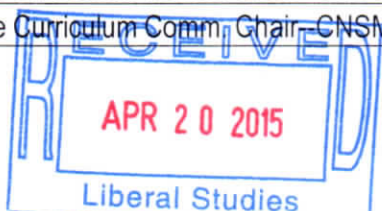
New Degree Program                      X **New Minor Program**                      Liberal Studies Requirement Changes                      Other

Current program name: **Sustainability Studies Minor**

Proposed program name, if changing: \_\_\_\_\_

**5. Approvals**

	Signature	Date
Department Curriculum Committee	<i>Susan Comfort</i>	9/19/14
Department Chairperson(s)	<i>[Signature]</i>	9/19/14
College Curriculum Comm. Chair--CHSS	<i>[Signature]</i>	9/19/14
College Curriculum Comm. Chair--CNSM	<i>[Signature]</i>	10/3/14



Received  
 JAN 15 2015

Received  
 OCT 8 2014  
 Liberal Studies

College Dean--CHSS	<i>[Signature]</i>	9/19/14
College Dean--CNSM	<i>[Signature]</i>	10/3/14
Director of Liberal Studies (as needed)		
Director of Honors College (as needed)		
Provost (as needed)	<i>[Signature]</i>	10/10/14
Additional signature (with title) as		
UWUCC Co-Chairs		

## **Sustainability Studies Minor Program – Application to the UWUCC**

**2/19/2015**

Dear UWUCC Committee Members:

We are writing to submit our revised Sustainability Studies Minor proposal, which includes the Minor proposal, a course proposal for SUST 201 and a course proposal for SUST 484. We appreciate the feedback of the UWUCC, as well as other departmental and college level curriculum committees who have helped us to shape this minor.

Our main revisions here include a clarification of our definition of sustainability, and a clear categorization of courses that reflect this definition. We believe that this adds much more clarity and coherence to the composition of the minor, which was already composed of carefully vetted classes, but was not organized in a manner that revealed their relevance to the program. We have also included five possible pathways through the minor to demonstrate the varieties of interdisciplinary thematic threads that may be woven together into coherent, innovative concentrations of study.

We take the recommendation of a mandatory capstone class very seriously, and we include here a preliminary course proposal for it (SUST 484). However, at this time, we feel that two required core classes would undermine our ability to get this program off the ground. We made this decision after carefully considering the other interdisciplinary minor programs at IUP, which do not have mandatory capstone courses, and are often unable to fill optional capstone classes. We first plan on offering a capstone synthesis class as a recommended course, in the form of a SUST 481 special topics class. At that point, based on enrollment, student feedback, and program review, the steering committee may decide to make this course a mandatory part of the minor program. We anticipate regular revisions to the minor program as an increasing number of related courses make it through the curricular process, such as the Sustainability of Chemistry; the Anthropology of Climate Change; Sustainable Development (Sociology); and Environmental Racism (Sociology).

We believe that this Sustainability Studies Minor will grow to become a flourishing program at IUP—one that dynamically engages different disciplinary understandings of sustainability toward socio-environmental solutions to the urgent problems of our time. Our inclusive and rigorous planning process has ensured that the minor has a solid foundation to begin generating exciting and timely pedagogy, research and community engagement.

Sincerely,

The Sustainability Studies Committee

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### **Part I: Sustainability Studies Minor Program Curriculum Proposal, Revised 2/19/15**

### **Part II: Endorsements for Sustainability Studies Minor Program (from IUP Departments, Chairs, College Deans, Curriculum Committees)**

- CNSM Curriculum Committee (Chair, Dr. Anne Kondo)
- Geoscience (Chair, Dr. Steve Hovan)
- Biology (Dr. Megan Knoch)
- CHSS (Dean Yaw Asamoah)
- Anthropology (Chair, Dr. Phil Neusius)
- Economics (Chair, Dr. Nicholas Karatjas)
- English (Chair, Dr. Gian S. Pagnucci)
- History (Chair, Dr. R. Scott Moore)
- Philosophy (Chair, Dr. Mary MacLeod)
- Political Science (Chair, Dr. John Sitton)
- Sociology (Chair, Dr. Alex Heckert)
- Art (Chair, Dr. Andrew Gillham)
- Criminology (Chair, Dr. Rob Mutchnik)
- Food & Nutrition (Chair, Dr. Rita Johnson)
- Information Systems and Decision Sciences (Chair, Dr. Pankaj)
- Nursing (Chair, Dr. Theresa Gropelli)

### **Part III: Sample Sustainability Studies Minor Programs**

- University of Maryland
- University of Florida
- Auburn University

### **Part IV: Course Proposal for SUST 201: Introduction to Sustainability**

### **Part V: Course Proposal for SUST 484: Sustainability Capstone**

## Sustainability Studies Minor

### Catalog Description

The Sustainability Studies minor is an interdisciplinary program that draws from expertise across the University. The program conceptualizes “sustainability” as an interdisciplinary approach to knowledge production and action that focuses on “the health and integrity of human societies and the natural world” (Evans, 2012). Sustainability is classically defined as a stool with three legs -- the social, the economic, and the environmental; the purpose of this program is to address the challenges of sustainability by balancing the humanities, social sciences, and natural sciences. The minor equips students to broaden their thinking about the origins of sustainability problems and possible solutions to include human institutions, ethics and cultures as well as technologies and natural sciences. In so doing, the minor aims to foster student agency with regard to research on sustainability, responsibility to both human and non-human life, and civic engagement with local sustainability projects. The theoretical and practical knowledge that the minor is designed to convey will prepare students to make well informed decisions regarding sustainable personal lifestyles, and to contribute to the creation of ecologically responsible public policy. The minor can supplement all majors in the University. Career possibilities include positions in design, law, food industries, planning and architecture, education, building certification, renewable energy, and waste management.

Students must complete 18 credits to earn a minor in Sustainability Studies. Students must also complete a capstone experience (described below). The program’s interdisciplinary approach encourages students to take courses from a variety of departments. The program is structured as follows:

1. All students will take SUST 201, “Introduction to Sustainability.”
2. Students must then take at least 12 credits from Category A, defined as courses in which substantial content is foundational to engagement with sustainability. These credits must be distributed across three “clusters,” each of which denotes a major aspect of sustainability (see below). Having taken one course from each of the three clusters, students will then be able to take the remaining Category A credits from a cluster of their choosing.
3. Only three credits may come from Category B, defined as courses in which significant content is foundational to engagement with sustainability. Because their content may vary, courses from Category B must be approved by the program director to count for the minor.
4. At least six credits must be at the 300 level or above.
5. Only one course may come from the student’s major.
6. With the exception of SUST courses, no course prefix may be used more than twice without written permission from the program director.

7. Special topics, independent study courses, and internship courses may be applied to either Category A or Category B with the approval of the Sustainability Studies Committee.
8. Students should consult with the program director to determine if there are any prerequisites for the courses listed below. Through counseling, the program coordinator will work with individual departments to determine if students may qualify for prerequisite exemptions.
9. Students will work with an advisor from the Sustainability Studies Program to develop a capstone experience that synthesizes their knowledge and skills related to sustainability. This requirement may be fulfilled by one of the following options: a portfolio, conference presentation, or other scholarly activity approved by the program director.

**Required Course:** SUST 201 Introduction to Sustainability 3cr

**Category A:**

**Cluster I: Ethics, Culture, and Society**

ANTH 420	Cultural Ecology	3cr
ANTH 430	Anthropology of Food	3cr
ENGL 361	Environmental Literature	3cr
HIST 385	People in Nature: An Introduction to Environmental History	3cr
PHIL 270	Ethics and the Environment	3cr
RLST 365	Native North American Religions	3cr

**Cluster II: Natural Sciences and Environmental Stewardship**

BIOL 103	Life on Earth	4cr
BIOL 114	Environmental Science	3cr
BIOL 115	Biotic Diversity of North America	3cr
BIOL 201	Principles of Ecology and Evolution	4cr
BIOL 221	Environmental Health and Protection	4cr
BIOL 272	Conservation of Plant and Animal Resources	3cr
BIOL 450	Field Biology at Pymatuning Laboratory of Ecology	4cr
BIOL 490	Field Studies in Biology	3cr
GEOS 101	The Dynamic Earth	3cr

GEOS 103	Oceans and Atmospheres	3cr
GEOS 310	Environmental Geology	4cr
GEOS 370	Oceanography	4cr
PHYS 101	Energy and Our Environment	3cr
PSYC 331	Environmental Psychology	3cr

**Cluster III: Environmental Policy, Economics, and Law**

CRIM 374	Environmental Crime and Justice	3cr
ECON 361	Environmental Economics	3cr
FDNT 470	Human Food Consumption Patterns	3cr
GEOG/RGPL 103	Global Cities: Issues in Planning and Development	3cr
GEOG 104	World Geography: Global Context	3cr
GEOG/RGPL 343	Geography of Fresh Water Resources	3cr
GEOG/RGPL 345	Biogeography for Environmental Managers	3cr
GEOG/RGPL 440	Conservation: Environmental Analysis	3cr
MKTG 444	Green Marketing	3cr
RGPL 426	Environmental Land Use Planning	3cr

**Category B:**

ANTH 110	Contemporary Anthropology	3cr
ANTH 213	World Archaeology	3cr
ANTH/SOC 314	Native Americans	3cr
ANTH 444	Medical Anthropology	3cr
ART 113	Three-Dimensional Design	3cr
ART 213	Woodworking: Function and Form	3cr
BIOL 323	Introduction to Toxicology and Risk Assessment	3cr
BIOL 362	Ecology	3cr
BIOL 456	Ecological Toxicology	3cr
BIOL 460	Fundamentals of Environmental Epidemiology	3cr
ECON 338	Poverty in Africa	3cr
ECON 339	Economic Development I	3cr
ECON 365	Economics of Tourism	3cr

FDNT 143	Current Issues in Nutrition and Wellness	3cr
GEOG 230	Cultural Geography	3cr
GEOG 335	Geography of Energy	3cr
GEOS 150	Geology of National Parks	3cr
GEOS 152	Physical Resources of the Earth	3cr
GEOS 201	Foundations of Geology	4cr
GEOS 324	Geology of Oil and Gas	4cr
HPED 143	Physical Well-Being	3cr
JRNL 375	World News Coverage	3cr
JRNL 466	Community Journalism	3cr
NURS 143	Healthy People – Promoting Wellness	3cr
PHIL 122	Contemporary Moral Issues	3cr
PLSC 250	Public Policy	3cr
PLSC 389	International Development Strategies	3cr
PSYC 330	Social Psychology	3cr
RLST 485	Selected Topics in Feminist Studies of Religion	3cr
SOC 337	Society, Globalization, and Risk	3cr
SOC 340	Sociology of Industry	3cr
SOC 417	Global Service Learning	3cr

## 2. Rationale

### 1. Appropriateness to Mission

A Minor Program in Sustainability Studies would advance IUP and PASSHE primary missions as “a leading public university strongly committed to undergraduate and graduate instruction, scholarship, and public service,” to quote from IUP’s Vision and Mission statement. First, the SUST minor would provide tremendous opportunities for the enhancement of innovative interdisciplinary instruction at a historical moment when dynamic problem-solving and fresh ideas are needed to address mounting environmental and social challenges. At the heart of the SUST minor is a holistic approach to pedagogy rooted in an integrated understanding of the interconnectedness of all species and systems, and thus the promotion of instruction that aims to foster ecological and social well-being.

Second, the emphasis on interdisciplinary holistic approaches will also stimulate dynamic knowledge-production both inside and outside the classroom, as faculty and students develop new knowledge through peer-reviewed research and scholarship. Indeed, a SUST minor committed to stimulating new research agendas will ensure that IUP is among the leading public institutions that contributes to knowledge on adaptation and resilience in the face of climate change. Many institutions are currently organizing research agendas to understand and care for the new ecologies of climate zones, for example. Third, a SUST minor will ensure IUP and PASSHE continue to be leaders in public service, as classrooms are reconceived as “Living Learning Labs” that foster learning and the application of classroom knowledge in the context of civic engagement on projects like waste stream analysis or community recycling assistance. Also, a SUST minor would facilitate



programming, such as “Research to Action Symposiums,” “Sustainable Neighborhood Forums” and “Cleantech Challenges,” which partner universities with communities and businesses to open solar factories, community gardens, and building retrofitting operations. For these three main reasons, a SUST minor is entirely appropriate to the missions of IUP and PASSHE.

## 2. Need

Among academic professionals around the world, there is a rapidly growing consensus that humanity is at the crossroads of profound environmental, social, and economic change—and universities must play a key role not just in responding but also in shaping these changes through innovative teaching and research in sustainability (Mulkey, AASHE 2013). As a set of guiding principles and pedagogies for IUP and PASSHE, sustainability has the potential to reinvigorate our existing programs and also address a growing student interest. The Princeton Review notes that 62% of students surveyed in 2013 report that a college’s commitment to the environment impacts their decision to apply to and attend a school (Princeton Review 2013). At the same time, with a commitment to sustainability, IUP and PASSHE could become catalysts and conduits for positive adaptation as communities and businesses confront the challenges of rapid change. In fact, many regional universities including Chatham and Carnegie Mellon, and other national universities and colleges such as Arizona State, Portland State, Unity College, and Appalachian State are considered leaders in sustainability education (Mayberry, AASHE 2013). In part, these universities have risen to prominence because of their innovative commitments to sustainability. IUP and PASSHE have an opportunity to join this growing list of influential and innovative campuses.

## 3. Academic Integrity

The Sustainability Studies minor will be coordinated and regularly assessed by the Sustainability Studies committee composed of at least 4 full time faculty members at IUP. Given an interdisciplinary program, this committee should represent at least three different departments. These faculty members are in charge of proposing program revisions, evaluating the program on a regular basis (at one- and five-year intervals), and maintaining contacts with professional and academic organizations that are at the forefront of Sustainability Studies initiatives. This committee will meet on a regular basis during the academic year.

This minor is predominately constructed from an interdisciplinary collection of courses currently being taught at IUP. In addition to one required introductory course, students will be required to take 15 credits from an approved list of courses. These courses are already approved under departmental and college assessment and academic integrity guidelines. The Sustainability Studies Committee has worked with faculty and departmental chairs to identify courses for inclusion in the minor program. The Committee evaluated these courses based on these recommendations, a review of the catalog description, and where appropriate, a review of the syllabus of record. Courses that focus at least 70% of their material on the topic of sustainability are designated category A. Courses that focus on the topic of sustainability for at least 30% are designated Category B. Special topics, independent study courses, and internship courses may be applied to either category with the approval of the Sustainability Studies Committee.

Our proposed introductory course, SUST 201 Introduction to Sustainability, is being developed in accordance with policies set forth by the Liberal Studies and University-Wide Undergraduate Curriculum Committees.

## 4. Coordination with Other Programs

This minor offers a way for students to gain expertise in Sustainability Studies from an interdisciplinary perspective that is not currently offered at IUP. While many existing courses address the topic of sustainability at IUP from the vantage point of individual departments, this minor will focus on interdisciplinary perspectives, asking students to synthesize a range of natural, social scientific and humanistic approaches to understanding and acting on issues related to sustainability.

Currently, Sustainability Studies is a growing interdisciplinary field across U.S. college campuses. Vibrant programs in other universities in our region, such as Chatham, Penn State and Slippery Rock suggest the widespread and growing student support for this program. In the PASSHE system, there is a minor program at Clarion and a certificate program in Education for Sustainability at West Chester. While the specific classes offered as electives may vary between these programs, some of these classes may transfer into the minor at IUP, based on an evaluation of varied syllabi by the Sustainability Studies Committee.

#### 5. Assessment and Accreditation

The Sustainability Studies Committee will meet on a regular basis during the academic year for programming purposes. This committee will be in charge of developing a plan for assessing student learning outcomes. These assessment tools and procedures will be implemented on an annual basis. The program will also undergo a program review every five years in order to evaluate and maintain the integrity of the minor program.

#### 6. Resources Sufficiency

The Sustainability Studies minor currently needs little in terms of resources. Much of the staff-faculty support, learning materials, and facilities already exist because they are part of current course offerings that will fall under the Sustainability Studies minor. The introductory course will be a new course offering, requiring a periodic commitment of 3 faculty work-load hours from participating departments (detailed below).

- a. Staff- Faculty and support: Instructors for SUST 201: Introduction to Sustainability will rotate across disciplines. This course will be offered every Fall Semester. Participating faculty instructors for this course are currently located in the Departments of Anthropology, Biology, History, Economics, and English. Additional faculty members are welcome to apply to teach the course. Consequently, these departments have assured a commitment of support on a rotating basis (three work-load hours once every three or four years) for their faculty member to teach this course.
- b. Learning resources- books, periodicals, films, cassettes, compact disks, etc.: This program will use existing materials at the university. It requires no further materials at this time.
- c. Facilities or facility modifications: No facility modifications are required. We require a room to host a class of 20-50 students once a year.
- d. Other: N/A

#### 7. Impact on Educational Opportunity

The interdisciplinary nature of the Sustainability Studies minor offers a valuable educational opportunity for student exploration of key environmental and social challenges in the immediate future and in the long term. The SUST minor will enable student success and achievement by engaging them to think critically about the interconnections among social, economic, political, environmental, health, and many other related dimensions of creating a sustainable future. The anchor course in the minor, SUST 201: Introduction to Sustainability, as well as other courses in the minor provide students with opportunities for exploring specific disciplinary perspectives, while also enabling them to work toward synthesizing disciplinary perspectives in critical approaches to problem-solving as well as in scholarly and community dialogue.

See, e.g., the institutions affiliated with the North American Collegiate Sustainability Programs, which has forged partnerships with schools across Canada, the US, and Mexico.

### 3. A Summary of the Program (including a list of courses, requirements and restrictions).

This program is designed around a holistic vision of sustainability with the goal of fostering transformative interdisciplinary knowledge. Implementing a holistic approach to sustainability our program strives for innovative knowledge-making stemming from critical engagement with foundational areas of economy, ecology, society and culture. Students will explore these various knowledge areas through taking elective courses offered by five of the six colleges at IUP. There is one required courses in the minor, SUST 201 (Introduction to Sustainability), which will introduce students to the value of interdisciplinary research and action on socio-environmental issues. In SUST 201, students will develop conceptual frameworks for understanding sustainability; practice approaching problems and questions via relational, historical, and systems thinking; examine connections between local and global scales, and interrelated domains of culture, ecology, social justice, and health.

4. A course sequence (which illustrates a recommended schedule for students in the new program)

Required Courses:

SUST 201: Introduction to Sustainability

5 Electives. 1 course must be from CHSS course offerings. 1 course from CNSM. No prefix to be used more than twice (except for SUST). No more than 3 credits from major (without written consent from the director of the minor). No more than three credits from Category B (without written consent from the director of the minor). Six credits must be 300 level or above.

Sample Pathways Through the SUST Minor:

Pathway #1: Sustainability Studies and Food

ANTH 430	Anthropology of Food
PHIL 270	Ethics and the Environment
BIOL 272	Conservation of Plant and Animal Resources
FDNT 470	Human Food Consumption Patterns
ECON 338	Poverty in Africa

Pathway #2: Cultures and Histories of Sustainability in Human-Non-Human Environments

ANTH 420/581	Cultural Ecology
HIST 385	People in Nature: An Intro to Environmental History
BIOL 221	Environmental Health and Protection
GEOG/RGPL 103	Global Cities: Issues in Planning and Development
ECON 339	Economic Development

Pathway #3: Sustainability, Ethics and Environmental Policy

PHIL 270	Ethics and the Environment
BIOL 114	Environmental Science
PSYC 331	Environmental Psychology
ECON 361	Environmental Economics
ANTH 444	Medical Anthropology

Pathway #4: Sustainability and Human-Non-Human Diversity

RLST 365	Native North American Religions
ENGL 361	Environmental Literature
BIOL 115	Biotic Diversity of North America
GEOS 150	Geology of National Parks
ANTH/SOC 314	Native Americans

Pathway #5: Sustainability, Energy Cultures and Histories

ANTHRO	Cultural Ecology
HIST 385	People in Nature: An Intro to Environmental History
GEOS 101	The Dynamic Earth
PHYS 101	Energy and Our Environment
GEOG/RGPL 440	Conservation: Environmental Analysis

**From:** Anne Kondo

**Chair, NSM CCC**

**Re:** Sustainability Minor

**Date:** Sept. 16, 2014

**Dear Dr. Comfort,**

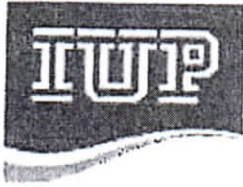
At its last meeting, the Natural Sciences and Mathematics (NSM) College Curriculum Committee (CCC) discussed the proposal for the Sustainability Minor. The Committee and Dean Snavelly were enthusiastic in their support of the minor, particularly because of its interdisciplinary structure. The only correction was that the two PSYC courses should be listed under NSM. The committee felt the Dean should sign off on the resources section of the cover page, since NSM faculty were involved in the delivery of some courses. If you deliver a corrected version of the proposal to the Dean's Office (WEY 303), she will sign the cover page.

**Good luck with the minor,**

**Sincerely,**

**Anne Kondo**

**Cc:** Deanne Snavelly



Geoscience Department  
Indiana University of Pennsylvania  
111 Walsh Hall  
Indiana, Pennsylvania 15705

**Dr. Steven A. Hovan, Chair**  
(724) 357-2379 *office*  
(724) 357-6208 *fax*  
email: hovan@iup.edu

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July 24, 2014

To: Sustainability Minor team

From: Steve Hovan, Chairperson, Geoscience Dept

RE: proposed new course (SUST201) and Minor (Sustainability Studies)

I've shared the course proposal SUST201 and the Minor in Sustainability studies with my departmental colleagues and am pleased to provide you with a letter of support from Geosciences for both of these proposals. We think this course will nicely complement the work our department does related to mineral and energy resource as well as our focus with environmental geosciences.

We wish your department all the best with the new course. It sounds very interesting and should prove to be a great addition to the course offerings for IUP's Liberal Studies program.

Sincerely,

A handwritten signature in black ink, appearing to read "Steve A. Hovan", is written over a light blue horizontal line.

Steve Hovan  
Chair, Geoscience Department

**Subject:** Minor in Sustainability Studies  
**From:** "Megan E Knoch" <megan.knoch@iup.edu>  
**Date:** 10/1/2014 10:32 AM  
**To:** <Amanda.Poole@iup.edu>  
**CC:** "Dr. N. Bharathan" <bharathn@iup.edu>

Greetings Dr. Poole,

The Biology Department has reviewed your proposal for the Minor in Sustainability Studies and gladly offers you our full support. This proposal is well-developed and will provide students with solid interdisciplinary training. We appreciate the time an effort that went into this proposal and will continue to provide the necessary coursework for students to complete this minor.

Best Regards,  
Megan Knoch  
Biology Department Undergraduate Curriculum Committee Chair

Dr. Megan E. Knoch  
Associate Professor  
Department of Biology  
Indiana University of Pennsylvania



**Subject:**

**Partial College Support for Your FPDC Grant Proposal**

**From:**

**Yaw Asamoah <osebo@iup.edu>**

**Date:**

**4/15/2014 8:23 AM**

**To:**

**Susan Comfort <scomfort@iup.edu>, Amanda B Poole <amanda.poole@iup.edu>, "dlweaver@iup.edu" <dlweaver@iup.edu>**

Hello Susan and Amanda,

While I regret that your FPDC grant proposal "Innovation in Teaching and Learning Sustainability" was not funded, I am impressed with your project and have decided to commit \$3,968 in College ESF funds in partial support of the project. This figure is the sum of \$3,120 (for proposed travel expenses) and \$1,848 (for Student Wages). I notice that other departments indicated their support for your project, and I trust that that commitment on their part has not changed.

Please let Ms. Debbie know the ESF cost center into which the funds should be transferred.

wishing you much success on your project,  
very sincerely yours,  
yaw asamoah

--

Yaw A. Asamoah, Dean  
College of Humanities & Social Sciences  
201 McElhane Hall  
Indiana University of Pennsylvania  
Indiana, PA 15705-1087

Phone: 724.357.5764

Fax: 724.357.4816

RE: Sustainability studies proposal

**Subject:** RE: Sustainability studies proposal  
**From:** "Phil Neusius" <phun@iup.edu>  
**Date:** 4/9/2014 3:55 PM  
**To:** "'Amanda B Poole'" <amanda.poole@iup.edu>  
**CC:** "'Phillip D. Neusius'" <phun@iup.edu>

Amanda,

I have reviewed your proposal for a sustainability minor. It looks like an excellent addition to the IUP curriculum. I fully support the creation of this interdisciplinary minor.

Phil

Dr. Phil Neusius, Chair  
Anthropology Department  
Indiana University of Pennsylvania  
phun@iup.edu

**From:** Amanda B Poole [mailto:amanda.poole@iup.edu]  
**Sent:** Monday, April 07, 2014 1:22 PM  
**To:** Neusius, Phillip D  
**Subject:** Sustainability studies proposal

Hi Phil,

We have come up with this minor proposal and are now floating it to you and other chairs to solicit letters of support. In my case, I would love any feedback you have in terms of how to frame this to move it through the various administrative bodies. I'll follow up shortly with the SUST 2XX course proposal (the only required course for the minor).

Hope all is well (I have been working from home today on my article!)

Amanda

\*\*\*\*\*  
Dr. Amanda Poole  
Assistant Professor, Dept. of Anthropology  
Indiana University of Pennsylvania  
McElhaney Hall, Rm G1K  
\*\*\*\*\*

Re: Sustainability Studies Minor Proposal- Request Approval

**Subject:** Re: Sustainability Studies Minor Proposal- Request Approval

**From:** Nicholas Karatjas <karatjas@iup.edu>

**Date:** 4/18/2014 9:07 AM

**To:** Amanda B Poole <amanda.poole@iup.edu>

The Department of Economics supports the proposed minor program in Sustainability Studies.

Nicholas Karatjas

Dr. Nicholas Karatjas, Chair  
Department of Economics  
Indiana University of PA  
213 McElhaney Hall  
Indiana, PA 15705  
724.357.2640 Phone

On 4/14/2014 4:40 PM, Amanda B Poole wrote:

letter of support

**Subject:** letter of support  
**From:** Gian Pagnucci <pagnucci@iup.edu>  
**Date:** 4/18/2014 12:44 PM  
**To:** Amanda B Poole <amanda.poole@iup.edu>, Susan Comfort <scomfort@iup.edu>

Hello Amanda and Susan,

The Department of English fully supports the proposal for a Minor in Sustainability Studies. Attached please find a detailed letter outlining that support.

Good luck as you work through the curriculum approval process.

Gian

\*\*\*\*\*

Gian S. Pagnucci, Ph.D.  
Chair of Department of English  
Distinguished University Professor  
Indiana University of Pennsylvania  
Department of English  
Leonard Hall, Room 110  
421 North Walk  
Indiana, PA 15705-1094

Office Phone: 724-357-2261  
Fax: 724-357-2265  
Web Site: <http://www.english.iup.edu/pagnucci>

\*\*\*\*\*

On Apr 14, 2014, at 4:40 PM, Amanda B Poole <[amanda.poole@iup.edu](mailto:amanda.poole@iup.edu)> wrote:

Greetings,

We are writing to solicit a statement of approval from your department for this proposed minor program in Sustainability Studies. We are attaching the pdfs of our minor proposal, the course proposal for the single required course (SUST 2XX), the related new course proposal questionnaire, and five sample syllabi of similar courses from other universities. You will note in the minor proposal that courses from your department are included in the proposed program. Thank you for your recommendations regarding sustainability-related courses from your department, which were very helpful to us as we compiled a strong list of classes offered across campus. We would appreciate it if you could get back to us by Friday morning (10 am), so that we can submit this proposal to the next college chairs meeting.

Best wishes,



Indiana University of Pennsylvania  
DEPARTMENT OF ENGLISH

Leonard Hall, Room 110  
421 North Walk  
Indiana, PA 15705-1015

P: (724) 357-2261  
F: (724) 357-2265

January 24, 2013

To Whom It May Concern:

I am writing this letter to express enthusiastic support for the Sustainability Studies Minor being proposed by the Sustainability Studies Working Group. I am Chair of the Department of English at Indiana University of Pennsylvania and Distinguished University Professor. I believe this minor would be of strong interest to students who are majoring or minoring in English.

In my judgment this proposed minor is highly valuable because our world and environment are in crisis and we must increase our work to educate students on how to create a society that is more sustainable. From fluctuating weather patterns in Pennsylvania to severe droughts in California to loss of animal species, we are putting our environment in peril with our present ways of living. This proposed minor will help further develop a direct educational effort to counteract these environmental problems. The time to act is now before it is too late. So I strongly wish to urge approval of this minor so that students can be offered a variety of opportunities to learn from sustainability experts. If we can educate students effectively about sustainability practices now, hopefully in the years ahead these students will find solutions to all these environmental problems we now face.

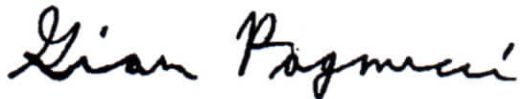
I believe there are two specific resource implications the proposal has that directly affect IUUP's Department of English. First, the proposal requires that we offer English 361: Environmental Literature often enough to be taken by students in the Environmental Studies Minor. We use a 4-semester course rotation in the English Department, and I can ensure that English 361 will be offered as part of this rotation. This should meet the needs of English majors and minors as well as any new Environmental Studies minors. This is a relatively easy thing for the department to accomplish since we already do offer English 361 about once every 4 semester.

Second, the proposal will require that Dr. Susan Comfort occasionally be released from teaching one English course to teach a SUST 2XX course. Since Dr. Comfort would be one of at least 5 people rotating through to teach this course, I believe we could meet this need. Dr. Comfort is an outstanding member of the Department of English whose research on environmental literature and sustainability issues is well known and widely respected in her field. Dr. Comfort thus is a natural fit to periodically teach SUST 2XX

since the department's offerings fluctuate and we have consistently had a large population of graduate students available to fill in on a temporary basis to cover 1 or 2 courses when the need arises.

Thank you for considering this proposed minor. I urge all the appropriate curriculum committees to approve the proposal quickly. If I can be of further assistance, please feel free to contact me at your convenience.

Sincerely,

A handwritten signature in black ink that reads "Gian Pagnucci". The signature is written in a cursive, flowing style.

**Gian S. Pagnucci, Ph.D.**  
**Chair of Department of English**  
**IUP Distinguished University Professor**  
<http://www.english.iup.edu/pagnucci>  
Email: [pagnucci@iup.edu](mailto:pagnucci@iup.edu)  
Office: (724) 357-2261  
Fax: (724) 357-2265



Indiana University of Pennsylvania

[www.iup.edu](http://www.iup.edu)

Department of History  
Keith Hall, Room 203  
390 Pratt Drive  
Indiana, Pennsylvania 15705-1014

P 724-357-2284  
F 724-357-6478  
[www.iup.edu/history](http://www.iup.edu/history)

Dr. R. Scott Moore  
Chair, Department of History  
203 Keith Hall  
Indiana University of Pennsylvania  
Indiana, PA 15705  
(724) 357-2284  
[rsmoore@iup.edu](mailto:rsmoore@iup.edu)

To: Dr. Comfort, et al.  
Re: Letter of Support for proposed Sustainability Studies minor  
Date: April 10, 2014

I am writing this letter to endorse the proposed Sustainability Studies minor. The History Department believes strongly in both the viability of the proposed minor and in the value it will provide to students, faculty, and the greater University community. It has the full support of the department.

Sincerely,

A handwritten signature in cursive script that reads 'R. Scott Moore'. The signature is written in black ink and is positioned above the printed name.

R. Scott Moore

Re: Sustainability Studies Minor Proposal- Request Approval

**Subject:** Re: Sustainability Studies Minor Proposal- Request Approval

**From:** Mary MacLeod <mmacleod@iup.edu>

**Date:** 4/17/2014 8:38 PM

**To:** Amanda B Poole <amanda.poole@iup.edu>

Hello, Amanda.

On behalf of the Department of Philosophy, I support your SUST Minor program proposal.

Given the wide range of options in Categories A and B, and assuming the program enrolls under 100, I expect we can meet SUST minor seat needs in both PHIL 270 and PHIL 122. I expect we could meet seat needs for higher enrollments, too.

Congratulations – an innovative program with conscience and growth potential, proposed thanks to you and your team. May it take off "like a rocket" and help us see Earth from space.

- Mary

Mary MacLeod  
Associate Professor  
IUP Philosophy, Chair (Sutton 439)  
[mmacleod@iup.edu](mailto:mmacleod@iup.edu)  
(724) 357 - 2310



Re: Sustainability Studies Minor Proposal- Request Approval

**Subject:** Re: Sustainability Studies Minor Proposal- Request Approval

**From:** John Sitton <jfsitton@iup.edu>

**Date:** 4/16/2014 12:12 PM

**To:** Amanda B Poole <amanda.poole@iup.edu>

Hello Amanda,

Political Science supports the proposed minor in Sustainability Studies.  
John (Chair of PLSC)

On 4/14/2014 4:40 PM, Amanda B Poole wrote:

Greetings,

We are writing to solicit a statement of approval from your department for this proposed minor program in Sustainability Studies. We are attaching the pdfs of our minor proposal, the course proposal for the single required course (SUST 2XX), the related new course proposal questionnaire, and five sample syllabi of similar courses from other universities. You will note in the minor proposal that courses from your department are included in the proposed program. Thank you for your recommendations regarding sustainability-related courses from your department, which were very helpful to us as we compiled a strong list of classes offered across campus. We would appreciate it if you could get back to us by Friday morning (10 am), so that we can submit this proposal to the next college chairs meeting.

Best wishes,

Amanda Poole

\*\*\*\*\*  
Dr. Amanda Poole  
Assistant Professor, Dept. of Anthropology  
Indiana University of Pennsylvania  
McElhane Hall, Rm G1K  
\*\*\*\*\*

**Subject:** Re: Sustainability Studies Minor Proposal- Request Approval  
**From:** Alex Heckert <Alex.Heckert@iup.edu>  
**Date:** 4/17/2014 5:46 PM  
**To:** Amanda B Poole <amanda.poole@iup.edu>

Amanda,  
The Department of Sociology is supportive of the proposed minor in Sustainability Studies.  
Thank you,  
Alex Heckert  
Chair  
Sociology

On 4/14/2014 4:40 PM, Amanda B Poole wrote:

Greetings,

We are writing to solicit a statement of approval from your department for this proposed minor program in Sustainability Studies. We are attaching the pdfs of our minor proposal, the course proposal for the single required course (SUST 2XX), the related new course proposal questionnaire, and five sample syllabi of similar courses from other universities. You will note in the minor proposal that courses from your department are included in the proposed program. Thank you for your recommendations regarding sustainability-related courses from your department, which were very helpful to us as we compiled a strong list of classes offered across campus. We would appreciate it if you could get back to us by Friday morning (10 am), so that we can submit this proposal to the next college chairs meeting.

Best wishes,

Amanda Poole

\*\*\*\*\*  
Dr. Amanda Poole  
Assistant Professor, Dept. of Anthropology  
Indiana University of Pennsylvania  
McElhane Hall, Rm G1K  
\*\*\*\*\*

RE: Sustainability Studies Minor Proposal- Request Approval

**Subject:** RE: Sustainability Studies Minor Proposal- Request Approval

**From:** "Andrew Gillham" <gillham@iup.edu>

**Date:** 4/16/2014 9:39 AM

**To:** "Amanda B Poole" <amanda.poole@iup.edu>

Dear Amanda,

The Department of Art supports the Sustainability Studies Minor Proposal.

Andrew

Andrew Gillham  
Chairperson  
Department of Art  
115 Sprowls Hall  
IUP  
(724)357-2530  
gillham@iup.edu

**From:** Amanda B Poole [mailto:amanda.poole@iup.edu]

**Sent:** Monday, April 14, 2014 4:41 PM

**To:** Neusius, Phillip D; Luciano, Carl S; Pagnucci, Gian S; Benhart, John E; Hovan, Steven A; rmartin@iup.edu; Nicholas.Karatjas@iup.edu; Rita.Johnson@iup.edu; rsmoore@iup.edu; LPalmer@iup.edu; MacLeod, Mary; talwar@iup.edu; chandler@iup.edu; aheckert@iup.edu; ferguson@iup.edu; gillham@iup.edu; michele.papakie@iup.edu; jfsitton@iup.edu; George.Long@iup.edu; Bhagat, Parimal Satish; rgsonl@iup.edu; Pankaj.Pankaj@iup.edu

**Cc:** Comfort, Susan M; Jeffords, Christopher R; Whited, Tamara L; Cope, Brian Dickenson; Lassiter, Tracy J; Townsend, Josiah H

**Subject:** Sustainability Studies Minor Proposal- Request Approval

Greetings,

We are writing to solicit a statement of approval from your department for this proposed minor program in Sustainability Studies. We are attaching the pdfs of our minor proposal, the course proposal for the single required course (SUST 2XX), the related new course proposal questionnaire, and five sample syllabi of similar courses from other universities. You will note in the minor proposal that courses from your department are included in the proposed program. Thank you for your recommendations regarding sustainability-related courses from your department, which were very helpful to us as we compiled a strong list of classes offered across campus. We would appreciate it if you could get back to us by Friday morning (10 am), so that we can submit this proposal to the next college chairs meeting.

Best wishes,

Amanda Poole

\*\*\*\*\*  
Dr. Amanda Poole  
Assistant Professor, Dept. of Anthropology  
Indiana University of Pennsylvania  
McElhaney Hall, Rm G1K  
\*\*\*\*\*

**Subject:Re: Reminder--Support Needed for SUST Minor Program**

**From:** Robert Mutchnick <rjmutch@iup.edu>

**Date:** 11/17/14 08:58 AM

**To:** Susan M Comfort <scomfort@iup.edu>

Susan,

I write as Chair of the Department of Criminology to lend my support for the Sustainability Studies Minor Proposal. Though Criminology does not play a large part in the course offerings we still believe the minor adds to the depth and breadth of opportunities for our students.

Rob

Robert Mutchnick

Professor and Chair

Department of Criminology

204 Wilson Hall

Indiana University of Pennsylvania

Indiana, PA 15705

724.357.2720

rjmutch@iup.edu

On Nov 14, 2014, at 11:22 AM, Susan M Comfort <scomfort@iup.edu> wrote:

Dear Rob,

Hello! I realize it's a very hectic time of the semester, but I am writing again with the hope that you will take a few moments to provide us with a brief statement of support for the Sustainability Studies Minor Proposal. You need only reply to this email with your statement.

As I explained in the previous email, one of your courses is listed among the course options in our minor proposal, which I again attach for your reference. The UWUCC has requested that we obtain statements from all departments from which courses are drawn to build our Minor.

So far, the Sustainability Studies Minor Proposal has received enthusiastic support from departments and college deans across campus, and, at this point, it needs support from only a few remaining departments (among which is yours) in order to advance through the UWUCC.

We have also held two very successful programs, one of which featuring a speaker on climate change just last week, was filled to capacity with students and faculty.

I have just been informed that the last committee meeting of the UWUCC is this coming Tuesday, November 18, so we're hoping to obtain all the necessary documentation by then.

Would it be possible for you to send us your statement by Monday, November 17?

Again, if you have any questions, please let me know. I am more than happy to meet with you if you wish. You may also direct questions to Dr. Amanda Poole in the Department of Anthropology, <amanda.poole@iup.edu>.

Thank you,

Sincerely,

Susan Comfort

<Sustainability Studies--Minor Proposal--Final.docx>

**Subject:Re: Reminder--Support Needed for SUST Minor Program**

**From:** Rita M. Johnson <Rita.Johnson@iup.edu>

**Date:** 11/14/14 07:08 PM

**To:** Susan M Comfort <scomfort@iup.edu>

Here is my statement.

Faculty in the Department of Food and Nutrition support the development of the Sustainability Studies Minor and are happy to teach, "Sustainable Nutrition". This course is currently being taught under the special topics number and will be submitted for a permanent number after it is taught three times."

Please let me know if this is not what you need.

Rita M. Johnson, PhD, RDN, LDN

Chair and Associate Professor

Department of Food and Nutrition

911 South Drive, Ackerman 102

Indiana, PA 15705-1087

Rita.Johnson@iup.edu

Office Location: Ackerman 101

724-357-3007 (Department fax)

724-357-3281 (Rita's office)

724-357-4440 (Department office)

Fall 2014 Office Hours

M-F 3:30 - 5:00

Please make an appt via email with me or in person with Mrs. Lemasters in ACK 101.

On Fri, 14 Nov 2014 11:28:20 -0500

"Susan M Comfort" <scomfort@iup.edu> wrote:

Dear Rita,

Hello! I realize it's a very hectic time of the semester, but I am writing again with the hope that you will take a few moments to provide us with a brief statement of support for the Sustainability Studies Minor Proposal. You need only reply to this email with your statement.

As I explained in the previous email, one of your courses is listed among the course options in our minor proposal, which I again attach for your reference. The UWUCC has requested that we obtain statements from all departments from which courses are drawn to build our Minor.

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Thank you,

Sincerely,

Susan Comfort

r Proposal--Final.docx>

**Subject:** RE: Sustainability Studies Minor Proposal- Request Approval  
**From:** "Pankaj \ (PC\)" <pankaj@iup.edu>  
**Date:** 4/18/2014 2:49 PM  
**To:** "Amanda B Poole" <amanda.poole@iup.edu>  
**CC:** "James Rodger" <jrodger@iup.edu>, "Pankaj \ (PC\)" <pankaj@iup.edu>

Hi Amanda,

Apologies for the late reply but you have the support of MISDS department.

Thanks  
Pankaj

**From:** Amanda B Poole [mailto:amanda.poole@iup.edu]  
**Sent:** Monday, April 14, 2014 4:41 PM  
**To:** Neusius, Phillip D; Luciano, Carl S; Pagnucci, Gian S; Benhart, John E; Hovan, Steven A; rmartin@iup.edu; Nicholas.Karatjas@iup.edu; Rita.Johnson@iup.edu; rsmoore@iup.edu; LPalmer@iup.edu; MacLeod, Mary; talwar@iup.edu; chandler@iup.edu; aheckert@iup.edu; ferguson@iup.edu; gillham@iup.edu; michele.papakie@iup.edu; jfsitton@iup.edu; George.Long@iup.edu; Bhagat, Parimal Satish; rgsoni@iup.edu; Pankaj.Pankaj@iup.edu  
**Cc:** Comfort, Susan M; Jeffords, Christopher R; Whited, Tamara L; Cope, Brian Dickenson; Lassiter, Tracy J; Townsend, Josiah H  
**Subject:** Sustainability Studies Minor Proposal- Request Approval

Greetings,

We are writing to solicit a statement of approval from your department for this proposed minor program in Sustainability Studies. We are attaching the pdfs of our minor proposal, the course proposal for the single required course (SUST 2XX), the related new course proposal questionnaire, and five sample syllabi of similar courses from other universities. You will note in the minor proposal that courses from your department are included in the proposed program. Thank you for your recommendations regarding sustainability-related courses from your department, which were very helpful to us as we compiled a strong list of classes offered across campus. We would appreciate it if you could get back to us by Friday morning (10 am), so that we can submit this proposal to the next college chairs meeting.

Best wishes,

Amanda Poole

\*\*\*\*\*  
Dr. Amanda Poole  
Assistant Professor, Dept. of Anthropology  
Indiana University of Pennsylvania  
McElhane Hall, Rm G1K  
\*\*\*\*\*



**Subject:**Re: Sustainability Studies Minor Proposal--Request Approval

**From:** Theresa M Gropelli <theresa.gropelli@iup.edu>

**Date:** 11/08/14 01:07 PM

**To:** Susan M Comfort <scomfort@iup.edu>

Susan

This is fine and I have no problem with your proposal. However you should know that NURS 143 is not being offered at all in the Spring Semester. We could not offer it for budget reasons. This practice could continue.

Theresa

On Sat, 08 Nov 2014 13:04:00 -0500

"Susan M Comfort" <scomfort@iup.edu> wrote:

Hi, Theresa,

We have NURS143 listed as a Category A course. The immediate impact to Nursing may be some increased enrollment in this course, which we see is a Liberal Studies course designed for non-nursing majors. A less tangible impact may be the enrollment in the course by students with an eagerness and critical ability to connect human health and the "holistic approaches" to health emphasized and valued in your course, with related issues in other disciplines.

We have listed your course among our courses because of the inherent connection between the "promotion of wellness" and the study of sustainability, which is the interdisciplinary exploration of systems that promote balance and equity within and between human and non-human communities. We are confident that the inclusion of your course in Sustainability Studies will thus benefit both your department and the larger objectives of IUP to deepen and broaden student knowledge of timely and urgent issues.

If I can answer any further questions, please let me know.

Thanks again,

Susan

On Sat, 08 Nov 2014 12:17:34 -0500

"Theresa M Gropelli" <theresa.gropelli@iup.edu> wrote:

Susan

I am not familiar with this. What impact does this have to the department Nursing and Allied Health. Can you just summarize this for me? Thanks

Theresa Gropelli

On Sat, 08 Nov 2014 11:53:52 -0500

"Susan M Comfort" <scomfort@iup.edu> wrote:

Dear Dr. Gropelli,

I am writing in my capacity as co-chair (with Amanda Poole, Anthropology) of the new Sustainability Studies committee to solicit a statement of approval from your department for the proposed minor program in Sustainability Studies. Attached to this email is the minor proposal and the course proposal for the singled required course (SUST 201). You will note in the minor proposal that courses from your department are included in the proposed program. We contacted your department last year for recommendations regarding sustainability-related courses from your department, which were very helpful to us as we compiled a strong list of classes offered across campus.

The minor program is now under review by the UWUCC, and we are hoping to advance it to the Senate early next semester. To move it along in a timely fashion, we would appreciate it if you could get back to us by Friday morning, 11/14, so that we can forward your statement to the committee.

Thank you so much for your ongoing support for what we believe will be a worthy and valuable program at IUP. If you have any questions, don't hesitate to contact me. Sincerely,

Susan Comfort

## **Sample Sustainability Studies Minor Programs**

University of Maryland  
Sustainability Studies Minor

Website: <http://www.sustainability.umd.edu/content/curriculum/Minor.php>

Description: This is an all-campus minor sponsored by the college of Agriculture and Natural Resources and the School of Public Policy. This minor requires 15 credits of coursework. It will complement any major on campus and provide both intellectual breadth and depth in a challenging new area of inquiry that is gaining a high level of interest in businesses, government agencies, and non-governmental organizations. A minor in Sustainability Studies and a major in a discipline will provide excellent thinking and problem-solving skills for you as a citizen, employee, or graduate student. The minor is ideal for sophomores and juniors, but open to students at any credit-level.

Housed by: College of Agriculture and National Resources, and the School of Public Policy.

Required classes: (a) ANGR/PUAF 301, Sustainability;

Electives: (b) one approved 3 credit course from each of three thematic areas: Science and Technology, Policy and Institutions, and Social and Human Dimensions; (c) 3 credits comprised of an additional approved course, internship, or approved study abroad experience.

### List of minor-approved courses:

ANSC 227 Eating with Eyes Wide Open  
AOSC 123 Causes and Implications of Global Change  
AOSC 200/201 Weather and Climate/Weather and Climate Laboratory  
AOSC 433 Atmosphere Chemistry & Climate  
ARCH 418M Measuring Sustainability  
ARCH 478Q Selected Topics in Architecture: Bridge Design  
AREC 200 The Chesapeake Bay Ecosystem: Intersection of Science, Economics, and Policy  
BSCI 124 Plant biology for Non-Science Majors  
BSCI 126 Pollinators in Crisis  
BSCI 215 Global Sustainability: A Biologist's Perspective  
BSCI 361 Principles of Ecology  
BSCI 363 The Biology of conservation and Extinction  
ENSP 101 Introduction to Environmental Science  
ENST 100 International Crop Production-Issues and Challenges in the 21st Century  
ENST 214 Introduction to Fish and Wildlife Sciences  
ENST 314 Fisheries Management and Sustainability  
ENST 426 Emerging Environmental Threats  
ENST 440 Crops, Soils, and Civilization  
GEOG 201/211 Geography of Environmental Systems/Lab  
GEOG 441 Coastal Oceans  
GEOG 442 Biogeography and Environmental Change  
GEOL 120 Environmental Geology  
GEOL 123 Causes and Consequences of Global Change  
INAG 123 Intro to Sustainable Agriculture  
LARC 160 Introduction to Landscape Architecture  
LARC 450 Environmental Resources  
PHYS 105 Physics for Decision Makers: Global Energy Crisis  
PLSC 171 Introduction to Urban Ecosystems  
PLSC 226 Plant Diversity

PLSC 425 Green Roofs and Urban Technology  
PLSC 452 Environmental Horticulture  
ANTH 266 Changing Climate, Changing Cultures  
ARCH 289I Sustainability at College Park  
AREC 240 Introduction to Economics and the Environment  
AREC 365 World Hunger, Population, and Food Services  
AREC 489G sustainable Economic Development  
AREC 489J Energy and Environmental Economics  
BMGT 468V Transformative Action: Effective Methods of Social Change  
BMGT 496 Business Ethics and Society  
ENSP 102 Introduction to Environmental Policy  
ENSP 330 Introduction to Environmental Law  
ENSP 340 Water: Science, Ethics, and Law  
ENSP 350 Energy Resources: Science and Policy in the 21st Century  
GEOG 331 Introduction to Human Dimensions of Global Change  
GVPT 273 Introduction to Environmental Politics  
AMST 418G Cultural Themes in America: Food, Trauma, and Sustainability  
ANTH 222 Introduction to Ecological and Evolutionary Anthropology  
ANTH 298E Anthropological Approaches to Sustainable Development  
ANTH 322 Method and Theory in Ecological Anthropology  
ANTH 448F Environmental Archaeology  
ANTH 450 Theory and Practice of Environmental Anthropology  
ANTH 469P Culture, Cognition, and Environment  
ARCH 271 People, Planet and Profit: Building Sustainable Places  
ARCH 461 Sustainability in Architecture  
BIOE 289A Designing a Sustainable World  
ENGL 398V Writing about the Environment  
ENST 233 Introduction to Environmental Health  
GEOG 130 Developing Countries  
GEOG 140 Natural Disasters: Earthquakes, Floods, and Fires  
GEOG 202 Introduction to Human Geography  
GEOG 330 As the World Turns: Society and Sustainability in a Time of Great Change  
GEOG 332 Economic Geography  
GEOG 415 Land Use, Climate Change, and Sustainability  
GEOG 431 Culture and Natural Resource Management  
GVPT 306 Global Environmental Politics  
HIST 141 Carbon: Element at the Center of History  
HIST 189B Making Sense of Sustainability—Marylanders and their Environment in History  
HIST 205 Environmental History  
HIST 405 Environmental History  
LARC 451 Sustainable Communities  
LARC 461 People and the Environment  
LARC 452 Green Infrastructure & Community Greening  
MIEH 210 Environmental Justice  
PHIL 261 Philosophy of the Environment  
PHIL 209C Heated Debates: Philosophy and Climate Change  
PLSC 289I Greening Cities: Who wins, who loses, and who cares?  
SOCY 305 Scarcity & Modern Society  
SPHL 400 Introduction to Global Health  
URSP 250 The Sustainable City: Exploring Opportunities and Challenges  
URSP 289Q Quality of Urban Life

University of Florida  
Sustainability Studies Minor

Website: <http://sustainability.clas.ufl.edu/minor.html>

Description: The Minor in Sustainability Studies is an academically rigorous, interdisciplinary program of study that provides students with knowledge and skill development in the emerging field of Sustainability Studies. It is designed to complement any major area of study.

Housed by:

Required classes: IDS 2154: Facets of Sustainability

Electives: Select five courses, with at least one course from each cluster  
(A minimum of three courses of no fewer than three credits each must be at the 3000 level or above.)

Cluster A: Ethics, Culture and Human Behavior or

Cluster B: Economics, Law and Policy or

Cluster C: Production Systems and the Built Environment or

Cluster D: Ecology and Environmental Stewardship

Students may apply to enroll in IDS 4942, Sustainability in Action, a 3-credit capstone course that has a service learning, internship or integrative research project component. If accepted into this capstone course students need only complete four Cluster courses (12 credits), one from each of the four clusters.

List of minor-approved courses:

Cluster A: Ethics, Culture, and Human Behavior

AEB 4126 Agricultural and Natural Resource Ethics (GE-H or S)

AMH 3630 American Environmental History

ANT 4006 Human Rights and Culture

ANT 4403 Environment and Cultural Behavior (GE-S)

FOR 3202 Society and Natural Resources (GE-S)

FNR 4070C Environmental Education Program Development

GEO 3427 Plants, Health and Spirituality

PHI 3633 Bioethics

PHM 3032 Ethics and Ecology (GE-H)

REL 2104 Environmental Ethics (GE-H)

REL 2166 Religion and Environmental Crisis (GE-H and N)

REL 3103 Religion and Nature in North America (GE-H)

REL 3169 Religion and Environmental Movements of the Global South

REL 3492 Religion, Ethics and Nature (GE-H)

REL 4173 Religion, Ethics and Sustainable Agriculture

REL 4188 Environmental Values and Practice

SCE 4342 Environmental Education Method and Materials

SYD 4020 Population (GE-S and N)

SYD 4510 Environment and Society

SYD 4512 Social Institutions and Environment

SYO 4530 Social Inequality (GE-S and D)

SYG 2010 Social Problems and Solutions (GE-S)

WIS 4523 Human Dimensions of Natural Resource Conservation

WST 3349 Ecofeminism

WST 3930 or REL 3154 Gender and Nature

Cluster B: Economics, Law, and Policy

AEB 2451 Economics of Resource Use (GE-S)  
AEB 3450 Introduction to Natural Resource and Environmental Economics  
AEB 4123 Agricultural and Natural Resource Law  
AEB 4282 International Humanitarian Assistance (GE-S and N)  
AEB 4283 International Development Policy (GE-S)  
CPO 4793 Environmental Politics of the Global South  
ECP 3113 Population Economics (GE-S and N)  
ECP 3302 Environmental Economics and Resource Policy (GE-S)  
EUH 3683 The History of Consumption  
EUS 4931 or ALS 4905 Climate Change and the European Union: Science and Policy  
FNR 4660 Natural Resource Policy and Economics  
FOR 4664 Sustainable Ecotourism Development  
FYC 4408 Organizational Leadership for Nonprofits  
FYC 4409 Working with Nonprofit Organizations in Community Settings  
FYC 4427 Non-Governmental Organizations  
GEO 2500 Global and Regional Economies (GE-S)  
GEO 3372 Conservation of Resources  
INR 4350 International Environmental Relations  
LEI 3250 Introduction to Outdoor Recreation and Parks  
POT 3503 Environmental Ethics and Politics  
PUP 3204 Politics and Ecology (GE-S)  
PUP 4224 Florida Environmental Politics  
SYO 4352 Consumption, Economy and Society (GE-S)

Cluster C: Production Systems and the Built Environment

ARC 1000 Architecture and Humanity (GE-H)  
ARC 3291 Vernacular Architecture and Sustainability  
ARC 3880 Sustainable Architecture  
AGG 3501 Environment, Food and Society (GE-B)  
AGR 4212 Alternative Cropping Systems  
ALS 3133 Agricultural and Environmental Quality (GE-P)  
AOM 2520 Global Sustainable Energy: Past, Present and Future  
BCN 1582 International Sustainable Development (GE-S and N)  
BCN 3730 Construction, Safety, Health and the Environment  
DCP 3200 Methods of Inquiry for Sustainability and the Built Environment  
DCP 3210 Sustainable Solutions for the Built Environment  
DCP 3220 Social and Cultural Sustainability for the Built Environment  
DCP 4941 Practicum in Sustainability and the Built Environment  
EES 3008 Energy and Environment (GE-P)  
EES 4050 Environmental Planning and Design  
EES 4316 Industrial Ecology  
EES 4401 Public Health Engineering (GE-P)  
ENV 4612 Green Engineering Design and Sustainability  
PAS 2024 Global and Regional Perspectives in Fisheries (GE-B)  
FOR 3162C Silviculture  
FOR 4060 Global Forests  
FOR 4090C Urban Forestry  
HOS 3281C Principles of Organic and Sustainable Crop Production  
HOS 4283C Advanced Organic and Sustainable Crop Production  
LAA 2330 Site Analysis  
LAA 4260 Water Conservation Through Site Design and Green Roofs  
SWS 3022 Introduction to Soils in the Environment (GE-P)  
SWS 4116 Environmental Nutrient Management (GE-P)  
SWS 4231C Soil, Water and Land Use (GE-P)  
SWS 4233 Soil and Water Conservation  
SWS 4245 Water Resource Sustainability  
SWS 4550 Soils, Water and Public Health  
SWS 4932 Forest and Soil Ecosystem Services  
URP 4000 Preview of Urban and Regional Planning (GE-H)

Cluster D: Ecology and Environmental Stewardship

BOT 2800C Plants in Human Affairs (GE-B)  
BSC 2005 Biological Sciences (GE-B)  
BSC 2011 Integrated Principles of Biology 2 (GE-B)  
EES 4103 Applied Ecology (GE-B)  
ENV 4101 Elements of Atmospheric Pollution (GE-P)  
FOR 2662 Forests for the Future (GE-S)  
FOR 3004 Forests, Conservation and People (GE-B)  
FOR 3153C Forest Ecology (GE-B)  
GEO 2200 Physical Geography (GE-P)  
GEO 3250 Climatology (GE-P)  
GEO 3280 Principles of Geographic Hydrology (GE-P)  
GEO 3341 Extreme Floods (GE-P and N)  
GEO 3352 The Human Footprint on the Landscape  
GLY 2010C Physical Geology (GE-P)  
GLY 2030C Environmental and Engineering Geology (GE-P)  
GLY 3074 The Oceans and Global Climate Change (GE-P)  
GLY 3083C Introduction to Marine Science (GE-P)  
GLY 3882C Hydrogeology and Human Affairs  
PCB 3034C Introduction to Ecology  
PCB 3601C Plant Ecology  
PCB 4043C General Ecology  
SWS 2007 The World of Water (GE-P)  
SWS 2008 Land and Life (GE-B)  
SWS 4223 Environmental Biogeochemistry  
SWS 4244 Wetlands  
WIS 2040 Wildlife Issues in a Changing World (GE-B)  
WIS 2552 Biodiversity Conservation: Global Perspectives (GE-B and N)  
WIS 3401 Wildlife Ecology and Management  
WIS 3402 Wildlife of Florida  
WIS 3434 Tropical Wildlife  
WIS 4554 Conservation Biology  
WIS 4934 Special Topics  
\*more listed on the website (additional non cluster electives)

Auburn University

Sustainability Studies minor

Website:

[http://www.auburn.edu/academic/provost/undergrad\\_studies/academic\\_sustainability/student\\_minor.html](http://www.auburn.edu/academic/provost/undergrad_studies/academic_sustainability/student_minor.html)

Description: The mission of Academic Sustainability Programs is to support and encourage interdisciplinary teaching and research programs that incorporate sustainability principles in all academic units on campus, and to enhance interaction between campus operations and academic activities in sustainability.

Colleges involved: College of Agriculture, College of Architecture, Design, and Construction, College of Business, College of Education, College of Engineering, College of Human Sciences, College of Liberal Arts, College of Sciences and Mathematics, Office of the Provost, School of

Forestry and Wildlife Sciences, School of Nursing, School of Pharmacy, and School of  
Veterinary Medicine

Started: 2010-2012

Required courses:

SUST 2000 Introduction to Sustainability  
SUST 5000 Senior Capstone in Sustainability

Electives:

Society and Markets

CADS 2000 Global Consumer Culture  
FOWS 4310 Ecotourism  
FOWS 5320 Environmental Services  
RSOC 3190 Food, Agriculture, and Society  
RSOC 5650 Sociology of Natural Resources and the Environment

Environment

AGRN 5000 Soils and Environment Quality  
AGRN 5400 Bioenergy and the Environment  
ARCH 4900 Readings in Landscape Architecture  
BIOL 3060 Ecology  
BIOL 5090 Conservation Biology  
BIOL 5150 Community Ecology  
BSEN 3500 Natural Resource Conservation Engineering  
CADS 3970 Sustainable Design and LEED Accreditation  
CPLN 5070 Planning and the Environment  
CPLN 5500 and 5600 Environmental Planning  
FORV 4970/7970 Urban Ecology  
FOWS 2033 Introduction to Environmental Education  
FOWS 4310 Ecotourism  
FOWS 5320 Environmental Services  
GEOG 2020 Physical Geography  
GEOG 5010 Urban Geography  
GEOG 5210 Climatology  
GEOG 5510 Human-Environment Interaction  
GEOG 5550 Geography of Water Resources  
HIST 3550 American Environmental History  
HIST 3620 Landscape and Culture  
MATL 2210 Materials for Sustainable Energy Production and Storage  
MATL 2220 Materials and the Environment  
MATL 2230 Mineral Resources: Availability and Processing  
MECH 5970 Renewable Energy Resources and Applications  
RSOC 5650 Sociology of Natural Resources and the Environment

Social Justice

ANSC 2010: Animals and Society  
ANTH 3700 Political Ecology  
CPLN 5060 Sustainable Transportation Planning  
CPLN 5070 Planning and the Environment  
FORV 5310 Environmental Ethics  
FOWS 2033 Introduction to Environmental Education  
FOWS 4310 Ecotourism  
FOWS 5320 Environmental Services  
GEOG 5010 Urban Geography  
HDFS 4700 Gender in Close Relationships  
HIST 3550 American Environmental History  
HIST 3620 Landscape and Culture  
HUSC 2000/2007 Hunger: Causes, Consequences, and Responses  
RELG 4970 Religion and the Environment  
RSOC 3190 Food, Agriculture, and Society