

Cover Sheet: Request 12285

GEO 3XXX Geographical Sciences & Sustainability

Info

Process	Course New Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Jane Southworth jsouthwo@ufl.edu
Created	2/6/2018 4:47:44 PM
Updated	9/13/2019 8:00:33 AM
Description of request	The most critical issue facing the world today is the sustainability of both human and physical systems in the 21st century. This course will address these systems and how interactions between them shape the world we live in. Cutting edge geographic technologies: spatial analysis, GIS and satellite imagery, are utilized.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CLAS - Geography 011609000	Jane Southworth		4/10/2018
Letter of support - thiele-sustainability.doc					2/6/2018
College	Recycled	CLAS - College of Liberal Arts and Sciences	Joseph Spillane	This request is recycled: 1) the course description should be rewritten using approved catalog style (see http://clas.ufl.edu/curriculum/do) 2) the prerequisites are confusing--if you mean any (B) or (P) course, the request should simply state that; 3) eliminate the first paragraph under Course Objectives; 4) for the UCC, eliminate the additional text under Weekly Schedule of Topics and just weeks and topics; 5) add the university course evaluation policy under Links and Policies (see http://syllabus.ufl.edu/media/aa Policy.pdf); 6) please clarify and simplify the grading and assignment section (and reformat so that it is not all CAPS).	5/6/2018
No document changes					
Department	Approved	CLAS - Geography 011609000	Jane Southworth	I addressed all the concerns raised thanks Jane	8/24/2018
No document changes					

Step	Status	Group	User	Comment	Updated
College	Conditionally Approved	CLAS - College of Liberal Arts and Sciences	Joseph Spillane	The College Curriculum Committee conditionally approves, with the following: 1) make sure course objectives are all specific and measurable; 2) you could delete the lengthy topic discussions in the weekly schedule.	9/21/2018
No document changes					
Department	Approved	CLAS - Geography 011609000	Jane Southworth		4/24/2019
No document changes					
College	Approved	CLAS - College of Liberal Arts and Sciences	Joseph Spillane		4/24/2019
No document changes					
University Curriculum Committee	Commented	PV - University Curriculum Committee (UCC)	Lee Morrison	Added to the September agenda.	9/13/2019
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			9/13/2019
No document changes					
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
College Notified					
No document changes					

Course|New for request 12285

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Submitter: Jane Southworth jsouthwo@ufl.edu

Created: 9/12/2019 12:13:38 PM

Form version: 7

Responses

Recommended Prefix GEO

Course Level 2

Number xxx

Category of Instruction Introductory

Lab Code None

Course Title Geographical Sciences and Sustainability

Transcript Title Geog Scienc & Sustain

Degree Type Baccalaureate

Delivery Method(s) On-Campus

Co-Listing No

Co-Listing Explanation na

Effective Term Earliest Available

Effective Year Earliest Available

Rotating Topic? No

Repeatable Credit? No

Amount of Credit 3

S/U Only? No

Contact Type Regularly Scheduled

Weekly Contact Hours 3

Course Description An examination of the most critical environmental issues facing the world today. Emphasis is placed on the sustainability of both human and physical systems in the 21st century utilizing cutting edge geographic technologies: spatial analysis, GIS and satellite imagery.

Prerequisites NA

Co-requisites none

Rationale and Placement in Curriculum This course will address some critical issues in both human and biophysical systems and their complexity e.g. climate change, biodiversity, etc. and as such these themes and discussions require enough background in an introductory science course that this should be understandable. In addition, it is placed at a more intermediate level to indicate that this is not just a lecture and multi choice format course - this is more in depth, hands on activities and more in depth critical thinking. Hence the level of 3000 and the prereq of a basic science course.

Course Objectives

Specific Learning outcomes

- Students will understand the scientific method and be able to discuss different approaches, beyond that of traditional experimental design, as are more common in the geosciences
- Students will be able to identify how sustainability, both of societies and the environment, is one of the most significant issues in the world today.
- Students will be able to describe the sources experts use to explore the relationship between society and sustainability, including geographic methods, techniques and theories.
- Students will communicate major ideas and issues on society and sustainability through class activities, an individual project, and weekly discussions.

Course Textbook(s) and/or Other Assigned Reading TITLE: Global Change and the Earth System: A Planet under Pressure Series: Global Change - The IGBP Series

AUTHORS: Steffen, W., Sanderson, R.A., Tyson, P.D., Jäger, J., Matson, P.A., Moore III, B., Oldfield, F., Richardson, K., Schellnhuber, H.-J., Turner, B.L., Wasson, R.J. 1st ed. 2004. 2nd printing, 2004, XII, 332 p. 258 illus., 145 in color. With CDROM. Hardcover, ISBN 978-3-540-26594-8

Available free online:

<http://www.igbp.net/publications/igbpbookseries/igbpbookseries/globalchangeandtheearthsystem2004.5.1b8ae20512db692f2a680007462.html>

Weekly Schedule of Topics

TOPIC 1: week 1, Jan 8th

INTRODUCTION: Introduction to this course, approaches and methods in science and the Scientific Method

TOPIC 2: weeks 3 & 4, Jan 22nd & Jan 29th

What is special about Geography & the tools used in Geographical Sciences, as they relate to Sustainability

TOPIC 3: week 5, Feb 5th

CHAPTER 1: An Integrated Earth System [pages 1-9]

The interactions between environmental change and human societies

TOPIC 4: weeks 6 & 7, Feb 12th & Feb 19th

CHAPTER 2: Planetary Machinery: The Dynamics of the Earth System Prior to Significant Human Influence [pages 11-73]

TOPIC 5: weeks 8 and 10, Feb 26th & March 12th

CHAPTER 3: The Anthropocene Era: How Humans are Changing the Earth System [pages 81- 135]

TOPIC 6: weeks 11 & 12, March 19th & March 26th

CHAPTER 4: Reverberations of Change: The Responses of the Earth System to Human Activities [pages 143-196]

TOPIC 7: weeks 13 & 14, April 2nd & April 9th

CHAPTER 5: Living with Global Change: Consequences of Changes in the Earth System for Human Well-Being [pages 203-249]

TOPIC 8: week 15

CHAPTER 6: Towards Earth System Science and Global Sustainability [pages 255-299]

Links and Policies Class Attendance and Make-Up Policy

Class attendance is expected. Each unexcused absence will result in a 10 point reduction in the final grade. Excused absences are consistent with university policies in the undergraduate catalog (<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>) and require appropriate documentation.

Students Requiring Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Course Evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

Class Demeanor

Students are expected to arrive to class on time and behave in a manner that is respectful to the instructor and to fellow students. Please avoid the use of cell phones and restrict eating to outside of

the classroom. Opinions held by other students should be respected in discussion, and conversations that do not contribute to the discussion should be held at minimum, if at all.

Materials and Supplies Fees

There are no additional fees for this course.

University Honesty Policy

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (<https://www.dso.ufl.edu/sccr/process/student-conducthonor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Counseling and Wellness Center

Contact information for the Counseling and Wellness Center:

<http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Grading Scheme Grading Policy

Final Project = 300 points (30% grade)

Weekly Discussions = 25 points each (300 points total, 30% grade)

Weekly Class Activities/HW = 25 points each, except assignment 15 which is worth 50 points (400 points total, 40% grade) - see list of assignment topics below

Total grade out of 1000 points (100%)

Percent Grade Grade Points

93.4-100 A 4.00

90.0-93.3 A- 3.67

86.7-89.9 B+ 3.33

83.4-86.6 B 3.00

80.0-83.3 B- 2.67

76.7-79.9 C+ 2.33

73.4-76.6 C 2.00

70.0-73.3 C- 1.67

66.7-69.9 D+ 1.33

63.4-66.6 D 1.00

60.0-63.3 D- 0.60

0-59.9 E 0.00

More information on grades and grading policies is here:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

List of assignments was requested by UCC committee and so they are listed below:

1. The methods used in the Geosciences
2. The Scientific Method
3. Posters: Geographical Sciences & Sustainability
4. Humans and the Anthropocene
5. The Carbon Cycle Discussion Questions
6. Carbon cycle and feedbacks diagrams
7. Group poster creation: topic of Water
8. Ocean Circulation and Climate Change
9. Worksheet on CO₂ in the atmosphere
10. Systems diagram worksheet and the global food system
11. Wicked problems worksheet
12. Systems thinking and wicked problems of global food security
13. Case study 5.1 Climate's Tangled Web: work through and submit word file with answers and diagrams
14. Tour builder assignment

15. Create a class activity on module of your choice [50 points]

Instructor(s) Dr. Jane Southworth



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February 2, 2018

To Whom It May Concern:

I am writing in strong support of "Geographical Sciences and Sustainability," a new course developed by Dr. Jane Southworth, Department of Geography.

Last year I requested that Dr. Southworth create this course, and consulted with her during its development. Once it receives a permanent course number, it will become one of the Core Courses of the Sustainability Studies major. The major requires its students to take a Core Course in each of three areas: humanities, natural sciences and social sciences. Dr. Southworth's course will be one of two offerings we will have in the natural sciences. It will greatly increase options for our students, and will be much appreciated.

I will be submitting the request for inclusion of this course to the Sustainability Studies Core Course roster simultaneously with Dr. Southworth's submission of the new course to the UF/CLAS curriculum committees.

Sincerely,

A handwritten signature in black ink, appearing to read 'Les Thiele'.

Les Thiele
Director,
Sustainability Studies