

## Cover Sheet: Request 12660

### MET 4XXX Managing for a Changing Climate

#### Info

Process	Course New Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Esther Mullens emullens@ufl.edu
Created	5/2/2018 5:46:03 PM
Updated	3/17/2019 4:29:15 PM
Description of request	This course is an interdisciplinary survey of the science of climate variability and change, and the impacts of c climate change on multiple sectors, including society, economy, policy, ecosystems, and indigenous populations.

#### Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CLAS - Geography 011609000	Jane Southworth		8/27/2018
No document changes					
College	Conditionall Approved	CLAS - College of Liberal Arts and Sciences	Joseph Spillane	The College Curriculum Committee conditionally approves this request, with the following: 1) change weekly contact hours to 3; 2) use catalog style for course description (eliminating "this course will introduce" and "in addition to discussing"); 3) needs full set of links and policies (per syllabus.ufl.edu)	10/14/2018
No document changes					
Department	Approved	CLAS - Geography 011609000	Jane Southworth		1/4/2019
No document changes					
College	Approved	CLAS - College of Liberal Arts and Sciences	Joseph Spillane		1/12/2019
No document changes					
University Curriculum Committee	Commented	PV - University Curriculum Committee (UCC)	Lee Morrison	Added to February agenda.	2/13/2019
No document changes					
University Curriculum Committee	Conditionall Approved	PV - University Curriculum Committee (UCC)	Casey Griffith	Please clarify request as discussed with Joe Spillane in Feb. UCC meeting.	2/19/2019
No document changes					
College	Approved	CLAS - College of Liberal Arts and Sciences	Joseph Spillane		3/17/2019
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			3/17/2019
No document changes					

Step	Status	Group	User	Comment	Updated
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 12660

### Info

**Request:** MET 4XXX Managing for a Changing Climate

**Description of request:** This course is an interdisciplinary survey of the science of climate variability and change, and the impacts of c climate change on multiple sectors, including society, economy, policy, ecosystems, and indigenous populations.

**Submitter:** Esther Mullens emullens@ufl.edu

**Created:** 4/10/2019 9:52:58 AM

**Form version:** 11

### Responses

**Recommended Prefix** MET

**Course Level** 4

**Number** XXX

**Category of Instruction** Advanced

**Lab Code** None

**Course Title** Managing for a Changing Climate

**Transcript Title** Managing for Climate

**Degree Type** Baccalaureate

**Delivery Method(s)** Online, On-Campus

**Co-Listing** No

**Co-Listing Explanation** n/a

**Effective Term** Fall

**Effective Year** 2019

**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 interdisciplinary survey of climate variability and change. Topics include the physical science basis for climate change, followed by sectoral analysis of climate impacts, adaptation, and mitigation options. Active learning, discussions, and roleplaying facilitate understanding of critical issues facing the human and natural world.

**Prerequisites** GEO2242 or GEO2200

**Co-requisites** none

**Rationale and Placement in Curriculum** This course will equip students with a deeper understanding of climate science and impacts. It is a new course affiliated with the Department of Geography, and forms one of several proposed new courses that will grow the department's weather and climate course list toward an eventual minor and major in meteorology.

**Course Objectives** This course is hybrid format.

By the end of the course, Students should be able to describe the basic science of anthropogenic climate change and its causes. They should understand the difference between natural climate variability and climate change. They will be able to articulate how climate is monitored, and how a global climate model works. They will be able to describe regional climate impacts across the United States on sectors such as infrastructure, culture and wildlife and current and emerging adaptation strategies. They should be able to critically evaluate climate change information and dispel common misconceptions surrounding climate change science. Students will gain understanding of international climate policy through their paper and project assignments. Students will have ample opportunity to demonstrate their oral and written communication, and team work through four projects and four paper

assignments spread over the course. Additionally, students will demonstrate their understanding of international climate policy through a mock UN negotiation as part of their project.

**Course Textbook(s) and/or Other Assigned Reading** There is no required text. All videos, assignment details, and additional information will be available via embedded youtube links available through Canvas.

**Weekly Schedule of Topics** Students will watch 2-6 instructor-developed videos per week, read assigned material, and interact with each other and the instructor through comments and discussion in canvas. These activities will be in lieu of attending a regular lecture. Once per week, students will meet for in class session where we will connect course concepts to management decisions and students will participate in active learning via discussions, peer review, and project work. Attendance in class is mandatory. Students will also self-report time spent on the online component once every 2-3 weeks, as part of their participation.

An example week:

Sec. 3.1 & 3.2 (- 1 week's assigned lectures and reading)

6 videos (between 6 and 10 minutes each)

5 readings, totaling around 80 pages.

6 supplemental readings (not required, but encouraged)

one quiz (20 questions) - there are 8 quizzes over the 16 weeks.

Discussions (we have up to 4 open threads at a time. Students are expected to post an average of twice per week, or 10 times per four week period).

Students engage in a semester-long project composed of four distinct activities which build towards a final 'mock UN' climate change negotiation. The project is a combination of group work and individual effort. They also have four paper assignments spread over the course of the semester.

Topics covered include:

Week 1: Course overview

Week 2: Energy in the climate system, climate and carbon.

Week 3: climate variability

Week 4: Climate modeling - global and regional

Week 5: Climate observations and climate projections

Week 6: Impacts of climate change

Week 7: Policy and economics

Week 8/9: Climate vulnerability

Week 10: Decision-making for climate impacts

Week 11: Impacts to coasts and wildlife

Week 12: Impacts to ecology

Week 13: Impacts to human health and security

Week 14: Adaptation to climate change

Week 15: Final Group project preparation (no class on reading day)

Week 16: Mock UN debate in lieu of final exam (i.e., final project activity conducted during exam time)

## **Links and Policies**

### **Attendance**

Class attendance is mandatory. 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 who can demonstrate that they were unable to submit an assignment by the deadline due to an excused absence and who can provide appropriate documentation for the absence will be given a reasonable period of time to make up the late work.

### **Accommodations**

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, [www.dso.ufl.edu/drc/](http://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/>.

### Expectations of you

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.

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-conduct-honor-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.

### Counseling and Wellness

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.

### Writing Assistance

The writing studio is committed to helping University of Florida students meet their academic and professional goals by becoming better writers. Visit the writing studio online at <http://writing.ufl.edu/writing-studio/> or in 302 Tigert Hall for one-on-one consultations and workshops.

**Grading Scheme** The final grade will be calculated based on the following anticipated weights. However, the course instructor reserves the right to alter these weights prior to the start of the class. Weights posted to the final syllabus will be final.

Individual Writing Assignments 40%

Online Assignments 15%

In-Class Participation 15%

Semester Project 30%

Percentages necessary to earn a given final grade will be no higher than the following (i.e., a curve may be applied at the end of the semester to raise grades, but not to lower them):

A > 90%

B+ 87-90%

B 83-87%

B- 80-83%

C+ 77-80%

C 73-77%

C- 70-73%

D+ 67-70%

D 63-67%

D- 60-63%

F < 60%

**Instructor(s)** Dr Esther D. Mullens, Assistant Professor in Geography, University of Florida.