

## General Education Course Information Sheet

*Please submit this sheet for each proposed course*

Department & Course Number CEE58SL  
 Course Title Climate change, water quality, and ecosystem functioning  
 Indicate if Seminar and/or Writing II course \_\_\_\_\_

1 Check the recommended GE foundation area(s) and subgroups(s) for this course

**Foundations of the Arts and Humanities**

- Literary and Cultural Analysis \_\_\_\_\_
- Philosophic and Linguistic Analysis \_\_\_\_\_
- Visual and Performance Arts Analysis and Practice \_\_\_\_\_

**Foundations of Society and Culture**

- Historical Analysis \_\_\_\_\_
- Social Analysis \_\_\_\_\_

**Foundations of Scientific Inquiry**

- Physical Science \_\_\_\_\_  
*With Laboratory or Demonstration Component must be 5 units (or more)* \_\_\_\_\_
- Life Science Yes \_\_\_\_\_  
*With Laboratory or Demonstration Component must be 5 units (or more)* \_\_\_\_\_

2. Briefly describe the rationale for assignment to foundation area(s) and subgroup(s) chosen.

This course covers fundamental concepts in ecology, earth science, and microbial water quality.  
The latest research on the relationships between ecosystem and organism disruptions will be  
investigated.

3. "List faculty member(s) who will serve as instructor (give academic rank):

Jennifer Jay, Associate Professor

Do you intend to use graduate student instructors (TAs) in this course? Yes  No \_\_\_\_\_

If yes, please indicate the number of TAs 1

4. Indicate when do you anticipate teaching this course over the next three years:

	2010-2011	Fall	_____	Winter	_____	Spring	_____
		Enrollment	_____	Enrollment	_____	Enrollment	_____
	2011-2012	Fall	_____	Winter	<u>√</u>	Spring	_____
		Enrollment	_____	Enrollment	<u>40</u>	Enrollment	_____
	2012-2013	Fall	_____	Winter	<u>√</u>	Spring	_____
		Enrollment	_____	Enrollment	<u>40</u>	Enrollment	_____

5. GE Course Units

Is this an **existing** course that has been modified for inclusion in the new GE? Yes  No \_\_\_\_\_

If yes, provide a brief explanation of what has changed. The area of environmental science  
covered has changed from wetlands to climate change and ecosystems. Both the discipline-  
specific academic rigor and the extent of community engagement have increased.

Present Number of Units: 5 Proposed Number of Units: 5

6. Please present concise arguments for the GE principles applicable to this course.

- General Knowledge
 

This course covers fundamental life science topics in depth. Specifically, we will learn basic ecology, microbiology, and earth science. Students will learn how earth's biological systems function and their responses to disruption.
- Integrative Learning
 

This class will be particularly strong in helping students integrate concepts across curricula. The course brings together three scientific areas: ecosystems, water quality, and climate change and asks students to investigation relationships. In working with K-12 students, math and graphing will be used to illustrate climate changes that have already occurred. For younger students, math problems can be quite simple, such as plotting temperature over time. For high school students, more complicated problems, such as how varying amounts of snowmelt affect our water supply, can be addressed.
- Ethical Implications
 

Students will discuss our role as educated citizens in addressing one of the largest problems facing humanity: climate change. For so long, the media presented this as a hypothetical issue, and we now have scientific consensus that it is occurring. Students will be directly involving themselves in educating others about science.
- Cultural Diversity
 

Students will be visiting public and private schools in the Los Angeles area, and will be in contact with students of diverse cultural backgrounds. Our long-time service learning partner, St. Anne's, has a student body that is 97% underrepresented in science.
- Critical Thinking
 

Students will be trained to read primary literature articles critically. They will write two research papers on topics of their interest.
- Rhetorical Effectiveness
 

This is an important part of the class. One two-hour session will be spent educating students on communication, and then two two-hour sessions will be spent watching each other practice and giving feedback on presentations.
- Problem-solving
 

Students will learn the scientific method through numerous case studies.
- Library & Information Literacy
 

The extensive internet resources that are available on climate change will be used in class and in working with younger students. For just one example, the Climate Hot Map is an interactive tool with which students can surf the globe and see impacts due to climate change and solutions occurring in specific locations.

**(A) STUDENT CONTACT PER WEEK (if not applicable write N/A)**

- |   |                   |         |
|---|-------------------|---------|
| 1. Lecture:   | <u>4</u>          | (hours) |
| 2. Discussion Section:                                  | <u>          </u> | (hours) |
| 3. Labs:  | <u>          </u> | (hours) |
| 4. Experiential (service learning, internships, other): | <u>2</u>          | (hours) |
| 5. Field Trips:   | <u>          </u> | (hours) |

**(A) TOTAL Student Contact Per Week** 6 **(HOURS)**

**(B) OUT-OF-CLASS HOURS PER WEEK (if not applicable write N/A)**

- |                                  |          |         |
|----------------------------------|----------|---------|
| 1. General Review & Preparation: | <u>1</u> | (hours) |
| 2. Reading                       | <u>4</u> | (hours) |
| 3. Group Projects:               | <u>1</u> | (hours) |

- 4. Preparation for Quizzes & Exams: 1 (hours)
- 5. Information Literacy Exercises: \_\_\_\_\_ (hours)
- 6. Written Assignments: 2 (hours)
- 7. Research Activity: 1 (hours)

**(B) TOTAL Out-of-class time per week** **10** **(HOURS)**

**GRAND TOTAL (A) + (B) must equal at least 15 hours/week** 16 **(HOURS)**

## **CEE58SL Climate change, water quality and ecosystem functioning**

Welcome!






This class covers the science relating climate change, water quality, and ecosystem health. Topics covered fall into 3 general categories: 1) fundamental concepts in ecology including needs of living things, populations and communities, carbon and nutrient cycling through the environment, ecosystem structure and services, and biodiversity; 2) the hydrologic cycle, basic aquatic chemistry, and microbial water quality; and 3) climate change and its impacts on ecosystem functioning and water quality.

We will examine the application of the scientific method in helping to understand and solve problems in environmental science. Case studies will be used to illustrate how natural scientists work on environmental issues. You will research a related topic of your interest and briefly discuss it with the class.

For the service learning component of this course, you will participate in a series of science education projects involving an elementary, middle, or high school audience. Total contact time with students will be 20 hours.

### **Course Goals and Learning Objectives:**

Students should:

-  develop a fundamental understanding of ecosystem functioning
-  develop a basic knowledge of microbial and chemical water quality
-  understand how natural scientists work and how scientific principles and methods are used to examine and solve environmental sustainability problems
-  have a working understanding of Earth's physical, chemical and biological processes as related to climate change
-  become involved in environmental education to a grades 2-12 audience

### **Service Learning:**

1. Is a method whereby students learn and develop through active participation in thoughtfully organized service that is conducted in and meets the needs of communities
2. Is coordinated with an elementary school, secondary school, institution of higher education, or community service program and the community
3. Helps foster civic responsibility

4. Is integrated into and enhances the academic curriculum of the students, or the education components of the community service program in which the participants are enrolled
5. Provides structured time for students or participants to reflect on the service experience

(Definition taken from the Corporation for National Service, Learn and Serve)

**Grading:** Quizzes 20%; Exam 20%; Two individual research papers, 30%; Service learning preparation, work, and service learning journal, 30%. Attendance mandatory.

**Individual research papers:** In each of two five-page documents, each student will review the current state of knowledge on a case of ecosystem and/or water quality disruption that is currently occurring or expected to occur as climate changes. At least five primary literature articles should be cited for each paper, and relevant course readings should also be cited.

**Service learning component of course:**

Description of meaningful work: Students will work in groups of 4 to 5 to conduct a series of environmental/climate science education activities for an elementary, middle, or high school audience. UCLA students will assist K-12 students in various projects including creatively illustrating relevant climate and environmental science concepts and graphing data. Some attention will be placed on solutions to the climate problem, and several activities will highlight renewable energy. For example, younger students will build solar ovens to make s'mores; this project illustrates both the heat trapping that is central to greenhouse warming and the effectiveness of solar energy. Middle school students will also build solar buggies using solar panels, and make solar cells out of raspberry juice in a protocol developed at UCLA CNSI.

All student projects will involve the graphing of data related to parameters such as temperature and storm intensity at various locations around the world. For example, each small group in a class could plot temperature or precipitation data from a location around the globe of the group's choice. Each group could learn about the different challenges in various locations (rising sea level, storms, agricultural impacts, etc.) The Climate Hot Map is a great interactive resource to get students started on this. By looking at all data together, the class could learn about the difference between overall trends and site to site variability.

The service learning component will culminate with a poster session at UCLA for all K-12 students. Working in small groups with UCLA students, K-12 students will make posters showing results of their work. For example, elementary school student posters could include graphs of temperature data that the students created, while older K-12 students might present on variations in snow pack in CA. Poster session will be hosted by the Center for Embedded Networked Sensing at UCLA.

All K-12 students will also tour UCLA in small groups led by the UCLA students in the class.

Connection to course material: Presentations to K-12 students will include the sharing of data from reputable sources such as the Intergovernmental Panel on Climate Change (IPCC) and journals such as Science and Nature.

Required hours of service learning: Students will spend eight two-hour sessions working with students in groups (weeks 3 through 10). An additional four hours contact time with students will occur during the culminating field trip to UCLA.

Community Partners:

1. St. Anne's Middle School. Contact person: Anna Brown, Science Teacher. (annambrown@yahoo.com)
2. Roosevelt Elementary School. Contact person: Jennifer Lynch ([jlynch@smmusd.org](mailto:jlynch@smmusd.org)) and Anna Nitti ([anitti@smmusd.org](mailto:anitti@smmusd.org))
3. Flintridge Preparatory School. Contact person: Nick Ponticello ([nponti@gmail.com](mailto:nponti@gmail.com))

**Lecture Topics:**

I. The Basics of Climate Change (weeks 1 and 2)

Film: An Inconvenient Truth  
Causes and evidence of global climate change  
Natural and anthropogenic forcings  
Introduction to Global Climate Models

II. Climate Change Impacts on Hydrology and Water Quality (weeks 3, 4, and 5)

Background:  
Water as solvent of life  
Basic hydrologic cycle  
Basic water chemistry and biology of natural waters  
Climate impacts:  
On surface water hydrology and quality  
On ocean pH

III. Climate Change Impacts on Ecosystem Functioning (weeks 6, 7, 8, and 9)

Background:  
Needs of living things  
Ecosystem services and biodiversity  
Overview of ecosystem functioning.  
Terrestrial, surface water, and ocean ecosystem structure  
Climate impacts:  
Phenology, abundance, and ranges.

Arctic and Antarctic ecosystems  
Equatorial, boreal, and temperate ecosystems

IV. Closing: Climate Change solutions (week 10)  
Stabilization wedge game

**Reading List (broken down by section of course):**

For the first three sections of the course, readings will come from three sources:

- A. Withgott, J., and S. Brennan, Environmental: The Science Behind the Stories, Pearson, 4<sup>th</sup> edition.
- B. The Intergovernmental Panel on Climate Change (IPCC) 2004 Report
- C. The Climate Change Science Compendium 2009

I. The Basics of Climate Change (weeks 1 and 2)

- A. Withgott, J., and S. Brennan:  
Chapter 18. Global Climate Change
- B. IPCC Report 2004:  
Chapter 1. Assessment of observed changes and responses in natural and managed systems.
- C. Climate Change Science Compendium 2009:  
Chapter 1. Earth Systems (11 pp.)

II. Climate Change Impacts on Hydrology and Water Quality (weeks 3, 4, and 5)

- A. Withgott, J., and S. Brennan:  
Chapter 15. Freshwater Systems and Resources  
Chapter 16. Marine and Coastal Systems and Resources
- B. IPCC Report 2004:  
Chapter 3. Freshwater resources and their management
- C. Climate Change Science Compendium 2009:  
Chapter 3. Earth's Oceans (7 pp.)

III. Climate Change Impacts on Ecosystem Functioning (weeks 6, 7, 8, and 9)

- A. Withgott, J., and S. Brennan:  
Chapter 4. Species Interactions and Community Ecology (W&B)  
Chapter 5. Environmental Systems and Ecosystem Ecology (W&B)
- B. IPCC Report 2004:  
Chapter 4. Ecosystems, Their Properties, Goods, and Services

- C. Climate Change Science Compendium 2009:  
Chapter 4. Earth's Ecosystems (9 pp.)

IV. Closing: Climate Change solutions (week 10)

- A. Withgott, J., and S. Brennan:  
Chapter 21. New Renewable Energy Solutions





## Course Revision Proposal

### Civil & Environmental Engineering 58SL Climate Change, Water Quality, and Ecosystem Functioning

#### Requested revisions that apply:

Renumbering	Title	Format	Requisites	Units	Grading	Description
Multiple Listing:	Add New	Change Number	Delete			
Concurrent Listing:	Add New	Change Number	Delete			

#### CURRENT

#### PROPOSED

	CURRENT	PROPOSED
<a href="#">Course Number</a>	Civil & Environmental Engineering 58SL	Civil & Environmental Engineering 58SL
<a href="#">Title</a>	Wetlands and Water Quality Service Learning Course	Climate Change, Water Quality, and Ecosystem Functioning
<a href="#">Short Title</a>	WETLANDS&WATER QLTY	CLIMATE CHNG&ECOSYS
<a href="#">Units</a>	Fixed: 4	Fixed: 5
<a href="#">Grading Basis</a>	Letter grade only	Letter grade only
<a href="#">Instructional Format</a>	Primary Format Lecture	Primary Format Lecture - 4 hours per week
	Secondary Format None	Secondary Format Activity - 2 hours per week
<a href="#">TIE Code</a>	LECN - Lecture (No Supplementary Activity) [T]	LECN - Lecture (No Supplementary Activity) [T]
<a href="#">GE</a>	No	Yes
<a href="#">Requisites</a>	None	None

<b>Description</b>	Lecture, three hours; outside study, nine hours. Learning and teaching of basic water quality concepts and wetland functions in one of two middle school classrooms in Los Angeles. Topics include photosynthesis, respiration, basic water quality parameters (pH, dissolved oxygen, salinity, turbidity), basic contaminant chemistry and metal precipitation, and role of wetlands in microbial water quality. Field trip with middle school students to Ballona Wetlands. Letter grading.	<b>Lecture, four hours; service learning, two hours; outside study, nine hours. Science related to climate change, water quality, and ecosystem health. Topics include carbon and nutrient cycling, hydrologic cycle, ecosystem structure and services, biodiversity, basic aquatic chemistry, and impacts of climate change on ecosystem functioning and water quality. Participation in series of science education projects to elementary or middle school audience. Letter grading.</b>
<b>Justification</b>		<b>This course is still a water quality/environmental science course, but the focus has shifted to the effects of climate change on water quality and ecosystem functioning. The title change better describes this new focus. Additionally, the course will cover sufficient biology to be a GE course in Life Science. The significant amount of service learning engagement required (20 hours per quarter) in addition to four lecture hours per week made a change to 5 units appropriate.</b>
<b>Syllabus</b>		File <a href="#">CEE58SL_Climate_change_syll5_14_11.doc</a> was previously uploaded. You may view the file by clicking on the file name.
<b>Supplemental Information</b>		<b>None</b>
<b>Effective Date</b>	<b>Winter 2005</b>	<b>Fall 2011</b>
<b>Department</b>	<b>Civil &amp; Environmental Engineering</b>	<b>Civil &amp; Environmental Engineering</b>
<b>Contact</b>		Name <b>MAIDA BASSILI</b>

[Routing Help](#)E-mail  
**maida@ea.ucla.edu****ROUTING STATUS****Role:** Registrar's Office**Status:** Processing Completed**Role:** Registrar's Publications Office - Hennig, Leann Jean (lhennig@registrar.ucla.edu) - 56704**Status:** Added to SRS on 6/30/2011 3:55:09 PM**Changes:** TIE Code, Description**Comments:** Edited course description into official version.**Role:** Registrar's Scheduling Office - Bartholomew, Janet Gosser (jbartholomew@registrar.ucla.edu) - 51441**Status:** Added to SRS on 6/28/2011 10:16:38 AM**Changes:** TIE Code**Comments:** No Comments**Role:** FEC School Coordinator - Soh, Michael Young (N/A)**Status:** Returned for Additional Info on 6/20/2011 11:59:14 AM**Changes:** TIE Code, Justification**Comments:** Routing to Registrar's Office**Role:** Department/School Coordinator - O'byrne, Kathy (kobyrne@college.ucla.edu) - 57867**Status:** Approved on 6/14/2011 10:53:52 AM**Changes:** TIE Code**Comments:** In justification section, should read "20 hours per quarter" (instead of "20 hours per week").**Role:** Registrar's Office - Hennig, Leann Jean (lhennig@registrar.ucla.edu) - 56704**Status:** Returned for Additional Info on 5/26/2011 1:13:27 PM**Changes:** TIE Code**Comments:** Reroute back to Kathy O'Byrne for final approval.**Role:** Department/School Coordinator - Bassili, Maida L (maida@ea.ucla.edu) - 51851**Status:** Returned for Additional Info on 5/26/2011 12:54:53 PM**Changes:** TIE Code**Comments:** Hi Kathy, Forwarded is Professor Jay revised CEE 58SL CIMS proposal per your instructions. Please review and advise if all information requested is provided. Also, please advise us once it get approved.**Role:** HSSEAS Central Administrator - Reneau, Myrna L (mirna@ea.ucla.edu) - 52941**Status:** Returned for Additional Info on 5/26/2011 12:16:01 PM**Changes:** TIE Code**Comments:** Routing back to Maida

<b>Role:</b>	Department/School Coordinator - Bassili, Maida L (maida@ea.ucla.edu) - 51851
<b>Status:</b>	Returned for Additional Info on 5/20/2011 10:45:45 AM
<b>Changes:</b>	TIE Code
<b>Comments:</b>	Hi Myrna, Please find forwarded updated proposal for CEE 58SL from Professor Jenny Jay. Please proceed and once approved, please forward to Kathy O'byrne (kobyrne@college.ucla.edu)for final approval. Thank you
<b>Role:</b>	Department Chair or Designee - Chen, Jiun-Shyan (jschen@seas.ucla.edu) - 74620
<b>Status:</b>	Approved on 5/20/2011 10:38:01 AM
<b>Changes:</b>	TIE Code
<b>Comments:</b>	No Comments
<b>Role:</b>	UgC Curriculum Committee Co-chair or Designee - Stolzenbach, Keith D (stolzenb@seas.ucla.edu) - 67624
<b>Status:</b>	Approved on 5/20/2011 9:37:25 AM
<b>Changes:</b>	TIE Code
<b>Comments:</b>	Approved. Need to apply for GE status after it is approved.
<b>Role:</b>	Department/School Coordinator - Bassili, Maida L (maida@ea.ucla.edu) - 51851
<b>Status:</b>	Returned for Additional Info on 5/19/2011 3:11:48 PM
<b>Changes:</b>	TIE Code
<b>Comments:</b>	Hi Keith, Forwarded is updated proposal of CEE 58SL that Jenny forwarded along with the new uploaded syllabus. Please check and forward to Professor Chen. Thank you.
<b>Role:</b>	Department Faculty Member - Jay, Jennifer Ayla (jjay@seas.ucla.edu) - 75365
<b>Status:</b>	Approved on 5/19/2011 2:02:40 PM
<b>Changes:</b>	TIE Code
<b>Comments:</b>	I updated the syllabus in three ways: 1) I changes to a new environmental science text because I believe it to be superior. Assigned chapters have been updated; 2) the 20 hours contact time for the service learning component will all be with the elementary or middle school age students, rather than other organizations; and 3) the community partners are a middle school and a YMCA.
<b>Role:</b>	Department/School Coordinator - Bassili, Maida L (maida@ea.ucla.edu) - 51851
<b>Status:</b>	Returned for Additional Info on 3/2/2011 12:44:35 PM
<b>Changes:</b>	TIE Code
<b>Comments:</b>	Hi Jenny, It seems that there is a problem with the submission of CEE 58SL. Please see comments provided by the registrar's office.
<b>Role:</b>	FEC School Coordinator - Soh, Michael Young (N/A)
<b>Status:</b>	Returned for Additional Info on 3/2/2011 12:05:31 PM
<b>Changes:</b>	TIE Code
<b>Comments:</b>	Maida - please see comments from Kathy re: SL portion of course. Also, if course is requesting GE credit, proposal must be submitted to GE Governance Committee.
<b>Role:</b>	Department/School Coordinator - O'byrne, Kathy (kobyrne@college.ucla.edu) - 57867
<b>Status:</b>	Returned for Additional Info on 3/1/2011 10:56:51 AM
<b>Changes:</b>	TIE Code

**Comments:** Have some basic questions about logistics of connecting students with sites, and the necessity of alternative work (e.g., Tree People). Would like to consult with the instructor. In course description, it states "outside instruction 9 hours", which doesn't mesh with the syllabus. Also says "one of two middle schools", but I believe the syllabus has a community partner that is an after school program.

**Role:** Registrar's Office - Hennig, Leann Jean (lhennig@registrar.ucla.edu) - 56704

**Status:** Returned for Additional Info on 2/17/2011 9:50:05 AM

**Changes:** TIE Code

**Comments:** Reroute to Kathy O'Bryne to review.

**Role:** Registrar's Scheduling Office - Thomson, Douglas N (dthomson@registrar.ucla.edu) - 51441

**Status:** Added to SRS on 2/2/2011 3:50:22 PM

**Changes:** Short Title, TIE Code, Effective Date

**Comments:** No Comments

**Role:** HSSEAS Central Administrator - Reneau, Myrna L (mirna@ea.ucla.edu) - 52941

**Status:** Approved on 1/20/2011 5:46:54 PM

**Changes:** TIE Code

**Comments:** Approved by the FEC Jan 20th 2011

**Role:** Department/School Coordinator - Isom, Chauncey A (chauncey@ea.ucla.edu) - 62891

**Status:** Approved on 1/19/2011 4:22:40 PM

**Changes:** TIE Code, Justification, Syllabus

**Comments:** Note: I copied Prof. Jay's explanation regarding the C&EE 58SL unit change from the comment field to the justification field for clarity.

**Role:** HSSEAS Central Administrator - Reneau, Myrna L (mirna@ea.ucla.edu) - 52941

**Status:** Approved on 1/14/2011 4:12:19 PM

**Changes:** TIE Code

**Comments:** Please review

**Role:** Department/School Coordinator - Bassili, Maida L (maida@ea.ucla.edu) - 51851

**Status:** Returned for Additional Info on 1/13/2011 12:02:15 PM

**Changes:** TIE Code

**Comments:** Hi Myrna, Totally forgot about forwarding this course to you before the holidays. Please include in the next FEC meeting for discussion. Thank you.

**Role:** Department Chair or Designee - Chen, Jiun-Shyan (jschen@seas.ucla.edu) - 74620

**Status:** Approved on 11/4/2010 6:32:27 PM

**Changes:** TIE Code

**Comments:** No Comments

**Role:** Department Chair or Designee - Stolzenbach, Keith D (stolzenb@seas.ucla.edu) - 67624

**Status:** Approved on 11/4/2010 9:28:14 AM

**Changes:** TIE Code, Description

**Comments:** Send a draft proposal to the GE office ASAP to get their feedback.

<b>Role:</b>	Department Faculty Member - Jay, Jennifer Ayla (jjay@seas.ucla.edu) - 75365
<b>Status:</b>	Approved on 10/29/2010 6:20:09 AM
<b>Changes:</b>	Units, Instructional Format, TIE Code, Description, Syllabus
<b>Comments:</b>	The significant amount of service learning engagement required (20 hours per week) in addition to four lecture hours per week made a change to 5 units appropriate.

<b>Role:</b>	Department/School Coordinator - Stolzenbach, Keith D (stolzenb@seas.ucla.edu) - 67624
<b>Status:</b>	Returned for Additional Info on 9/29/2010 3:45:36 PM
<b>Changes:</b>	TIE Code
<b>Comments:</b>	Jenny, I am sending this back to you as I know you are revising it.

<b>Role:</b>	Department Faculty Member - Jay, Jennifer Ayla (jjay@seas.ucla.edu) - 75365
<b>Status:</b>	Approved on 8/13/2010 2:43:43 PM
<b>Changes:</b>	TIE Code, Syllabus
<b>Comments:</b>	The syllabus has been updated, and the new one uploaded.

<b>Role:</b>	Department Faculty Member - Stolzenbach, Keith D (stolzenb@seas.ucla.edu) - 67624
<b>Status:</b>	Returned for Additional Info on 8/5/2010 11:00:09 AM
<b>Changes:</b>	TIE Code
<b>Comments:</b>	I am routing this back to Jenny so she can make the wording here compatible with the GE application wording.

<b>Role:</b>	Department Faculty Member - Jay, Jennifer Ayla (jjay@seas.ucla.edu) - 75365
<b>Status:</b>	Approved on 7/29/2010 9:07:36 PM
<b>Changes:</b>	Short Title, Instructional Format, TIE Code, GE, Description, Justification
<b>Comments:</b>	The new syllabus, description, and justification has been added.

<b>Role:</b>	Initiator/Submitter - Bassili, Maida L (maida@ea.ucla.edu) - 51851
<b>Status:</b>	Submitted on 7/22/2010 3:27:31 PM
<b>Comments:</b>	Initiated a Course Revision Proposal

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[cims@registrar.ucla.edu](mailto:cims@registrar.ucla.edu) or (310) 206-7045