

California State University, Sacramento

ENVS 10: Environmental Science Section 10-01 (34134) 10-04 (35908) and 10-80 (34419) Department of Environmental Studies, Spring 2017

INSTRUCTOR: Christine Flowers

CLASS MEETING TIME AND PLACE:

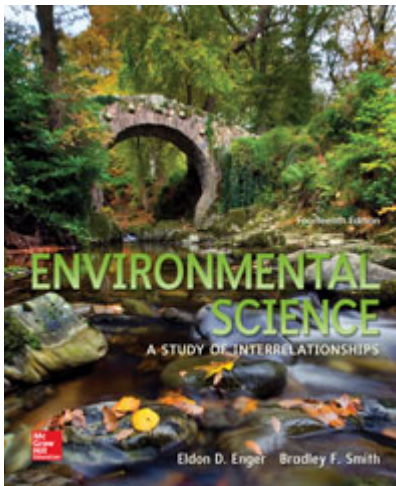
ENVS 10-01 LEC (34134)	Environmental Science	TuTh 11:30AM - 12:45PM	Library 65
ENVS 10-04 LEC (35908)	Environmental Science	TuTh 5:30PM - 6:45PM	Amador Hall 151
ENVS 10-80 LEC (34419)	Environmental Science	TuTh 5:30PM - 6:45PM	Amador Hall 151

OFFICE / HOURS: Tues/Thurs 4:30 to 5:30 Amador 555A or by phone appointment. If you must reach me immediately for an emergency call or text my cell 916-454-9067. When texting please provide your name and section number.

MAILBOX: Ask in Environmental Studies Office, 554A, Amador Hall

EMAIL: cflowers@csus.edu

TEXT: Environmental Science (LLF)(w/Connect Access), Author: Enger, Publisher: McGraw-Hill, Edition: 14th, Year Published: 2016, ISBN 9781259697258. This is available in the bookstore. You have options to purchase an e-book with course connect bundled or separately and rent books etc.



**** This course meets the B2, Life Forms, General Education requirement ****

CATALOG / COURSE DESCRIPTION:

This survey course looks at the earth as an ecosystem composed of biological, chemical, and physical systems. The focus is on the interaction of these systems with each other and with human population, technology, and production. The student should acquire the fundamentals of a scientific understanding of the ecological implications of human activities. Specific topics treated within the context of ecosystem analysis include energy flows, nutrient cycles, pollution, resource use, climate changes, species diversity, and population dynamics. We will investigate and critique national and global human-environmental processes and issues, and then apply them at a local/regional level to gain more relevancy and understanding. The course will include a variety of learning tools, including text, PowerPoint, popular media, video, and the Internet, and various methodologies, such as lecture, discussion, activities, and writing.

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GOALS:

1. Students will be introduced to a range of environmental issues and problems;
2. Students will define each issue in reference to the underlying science, alternative solutions, and influential legal and social issues;
3. Through multiple writing assignments and discussions, students will critically analyze people's relationship with, adaptations to, and modifications of environmental processes through an understanding of the "human footprint" and the repercussions of their choices/decisions.
4. Students will feel more connected to their communities by developing and implementing an action project.

GRADING PLAN:

- 2 Exams - each 25% (50%) Exams may be in class or take home and include multiple choice, short-answer, fill-in-blank, labeling and essay questions.
- Foot Print Assignment (10%) - assignment to be discussed and modeled in class
- Topic Paper (10%) - include topic approval documentation from professor
- Course Project (10%) - participation in activities to support class project
- Completion of McGraw-Hill Course Connect Text Reading Assignments (10%)
- Attendance (5%) - percentage based on actual attendance
- Pop Quizzes (5%) – percentage based on actual scores
- Extra Credit Option:
 - Community Action Project - participate in 2-3 hour volunteer effort and provide 2-page summary of activities, photo documentation and attach verification of activity from volunteer coordinator. (This can add up to 2.5% points on final grade)

Follow this rubric and attendance policy to receive desired grade (all aspects or you may receive the next lower grade):

A – engaged and participating in class discussions and activities; all assignments and exams of excellent quality (comprehensive, thoughtful, critical/creative) and scoring 90% and above.

B – usually engaged and participating; most assignments and exams completed and of good to excellent quality and scoring between 80 and 89%.

C – some participation; most assignments completed and of average quality and scoring between 70 and 79%.

D – scoring between 60 and 69%

F – scoring less than 60%

The instructor will set up a WebCT/SacCT Course to use for communication purposes and post information related to the course. The instructor runs a paperless classroom. Handouts and assignments are posted electronically.

COURSE REQUIREMENTS:

1. Attendance and class participation

Attendance is important! Information is provided through discussions, activities, videos, and lectures. This course covers a significant amount of material, so each missed class drops you can get further behind. A percentage grade is calculated for attendance and participation. You are responsible for reading, completing, and collecting any material, activities, or handouts when you are absent (check SacCT). Presentations and links discussed in class are posted. Short pop

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quizzes will be used throughout the semester to gauge class participation. Attendance and quizzes represent **10% of your final grade**

2. Exams

Two exams will be administered. While the specific information is (mostly) not cumulative, you will be expected to carry over general concepts and the course themes throughout the semester. They may be a combination of in-class and take home exams. The instructor will let you know if you need a scantron (form 882-E) or Greenbook. Make-up exams will only be given to students with an approved university excuse for their absence on exam day. **50% of your final grade.**

3. Ecological Foot Print/Carbon Foot Print Project – Personal Impact on Climate Change

The concept of the Ecological Foot Print and Carbon Footprint will be discussed and modeled in class. Students will each utilize the selected online footprint calculator at <http://footprintnetwork.org/en/index.php/GFN/> and calculate their ecological footprint during the first month of class. Students are to save a screen shot/image of their footprint as calculated for inclusion in the report. Students will also calculate their carbon footprint using the calculator at <http://www.coolcalifornia.org/calculator> Students will complete the carbon footprint, using the advanced settings and complete an action plan. The students should save the action plan as a pdf to be attached the written report. To fulfil the assignment students will compile a 2-page written report of their activity discussing their individual impact on the environment. Attached to the 2-page report should be screen shot of the ecological footprint results and the pdf of the carbon footprint action plan. The written report should be typed in Times New Roman 12 pt. font with line spacing of 1.5. **This project is 10% of final grade. You must put your name and section number on your paper and it must be submitted electronically as a single pdf file.**

4. Topic Paper

Each student will complete an individual written report on a topic of their choice that is approved by the professor. The topic must fit into one of the following categories: Climate Change, Green Chemistry, Environmental Justice, Plastic Pollution, Product Stewardship, Renewable Energy, or Environmental Heroes and Villains. The written report should be 4 pages in length, typed in Times New Roman 12 pt. font with line spacing of 1.5. Use APA style citations. Download comparisons of citation styles at the following link:

https://owl.english.purdue.edu/media/pdf/20110928111055_949.pdf **This project is 10% of the final grade. You must put your name and section number on your paper, include your topic approval form and be submitted as a single pdf file.**

5. McGraw-Hill Course Connect Online Assignments

Each student is responsible for having access to the textbook and McGraw-Hill Course Connect. The text selected is a smart book which will allow you to target your reading and preparation by self-assessments. **Completion of the reading assignment and assessments is 10% of your final grade.** Please use the appropriate link to gain access to your Course Connect Class Access:

<http://connect.mheducation.com/class/c-flowers-section-1-section-4-and-section-80-spring-2017>

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6. Course Project

Each student will participate in activities to support a campus sustainability project that is being led by the professor and/or staff of SacState Sustainability that is approved by the professor. For the Spring of 2017 the focus will be on developing a food rescue project for the campus. Some activities will be completed during scheduled class time and some may require additional time outside of class. The concept is being developed to submit a grant proposal on behalf of the campus. **Participation is 10% of your final grade**

(<http://www.csus.edu/aba/sustainability/>)

7. Extra Credit Options

Community Action Project - participate in 2-3 hour volunteer effort and provide 2-page summary of activities and attach photo documentation and service verification of activity from volunteer coordinator. Approved volunteer opportunities include working with SacState Sustainability on campus initiatives, Sacramento Creek Week, California Coast Cleanup, America Recycles Day, Earth Day, State Parks Day, or other volunteer efforts related to improving your surrounding environment. (This can add up to 2.5 % points on final grade). **You must put your name and section number on your paper and it must be submitted as a single pdf file.**

COLLEGE CLASSROOM ETIQUETTE

The instructor's role is to create a safe and positive learning environment and students are expected to be respectful of others. During the course, discussion of controversial topics will occur, with the expectation that conversation will be tactful, insightful and critical. Persistent interruptions and excessive discussion should be limited allowing all to feel appreciated, respected and heard. Arriving late and leaving early are both disruptive and inconsiderate.

Technology in the classroom is becoming increasingly disruptive when its use is inappropriate and not related to class activities. Therefore, the use of laptops, tablets, and cell phones should be limited to only those activities required for class participation. Failure to comply with this will result in the student being asked to leave the classroom. Neither cheating nor plagiarism will be tolerated. If you cheat or plagiarize in my class, you will fail the class and I will notify the department chair and the Academic Affairs Office. The Academic Senate Policy defining cheating and plagiarism and consequences is online at http://www.csus.edu/acse/03-04_actions.htm#FS%2003-40.

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STRATEGIES FOR SUCCESS

You should plan on spending at least 3-5 hours outside of class each week preparing coursework, reading, or writing. For you to succeed throughout your academic career here are some important considerations:

1. Recognize that you are in higher education and all responsibilities are yours alone.
 - You must choose to “learn” – teachers are facilitators who aid this process, but “learning” is always your decision.
 - Find ways to motivate yourself by connecting to the class material and participating in class.
 - Organize / manage your time and responsibilities.
2. Be pro-active, not re-active.
 - If you have problems, contact me before the due date.
 - Plan for due dates – use a calendar, list, or whatever will help.
3. Engage your brain.
 - Think critically about the material and apply it to your life – find relevancy for the information and concepts.
 - Be prepared for class and be mentally present and engaged.
 - Embrace your own experiences and knowledge, and be open to new experiences and information.
 - Question both the accuracy and relevancy of information presented – find other sources if needed.
4. Improve your writing.
 - Plan for and take the time to develop your writing skills.
 - Re-read / edit all your written work.
 - Know the rules regarding plagiarism and citations / references.
5. Assignments
 - Make sure you carefully read and answer all parts of the assignment
 - Label all assignments appropriately with your name in the document title and hand in materials on time (electronically)
6. Improve your computer skills.
 - Make sure you can access and use Course Connect/SacCT
 - Be able to find and organize Internet information
 - Make sure you can use email and word processing programs

WEEK	Topics	Special Notes-Deadlines – Selected short video segments will be used in class or assigned as supplemental activities. Various websites and online calculators will be used to model concepts. Reading Assignment Due Dates are posted in in Course Connect.
Jan 24/26	What Can Environmental Studies Do For You and What Are Environmental Interrelationships	Review First Day Handout and Calendar, SacCT and Register for Course Connect.
Jan 31/Feb2	The Basics of Environmental Ethics, Risks, Economics and Concerns	Footprintnetwork.org and Coolcalifornia.org
Feb 7/9	Interactions: Environments, Organisms, Communities and Ecosystems	
Feb 14/16	Populations with Focus on Human Population Size and Demographics	http://ngm.nationalgeographic.com/7-billion Foot Print Project Due Thursday Feb 16
Feb 21/23	It's All About Food-Land Use Soil, Agriculture	<i>America Reveled and Cowspiracy Segments</i>
Feb 28/Mar2	Food Rescue Project	
Mar 7/9	Waste Not Want Not - Zerowaste Concepts and Producer Responsibility	
Mar 14/16		Exam 1 March 14th Topic Paper Due Thursday March 16
Mar 21/23		SPRING BREAK Campus Closed
Mar 28/30	Water Water Everywhere?	MARCH 31 Campus Closed
Apr 4/6	The Air We Breathe	Air
Apr 11/13	Do You Have The Energy?	<i>America Revealed Segments Energy² Segments</i>
Apr 18/20		
Apr 25/27		
May 2/4	Climate Change Past and Future	
May 9/11	Class Project	Last week of classes
May16	Exam 2	Finals Week Tuesday May 16th Time: Sect 01 12:45-2:45 and Sect 4 and 80 5:15 to 7:15

