
ENVIRONMENTAL STUDIES 1

Introduction to Environmental Studies

Instructors: Jana Sanders

E S -001.65Z
Winter 2016

Call #31166
4.0 Units

DE ANZA COLLEGE, DIVISION OF BIOLOGICAL, HEALTH & ENVIRONMENTAL SCIENCES (BHES)
ENVIRONMENTAL STUDIES DEPARTMENT – KIRSCH CENTER FOR ENVIRONMENTAL STUDIES
Mediated Learning Course available at Kirsch Center, Stewardship Resource Center, SRC, (408) 864-5322

INSTRUCTIONS TO STUDENTS – You must complete the Initial Assessment in Catalyst!
This demonstrates that you have read and understand the course syllabus and the due dates for assignments!
Access Catalyst through your “My Portal” or by going to the Distance Learning webpage
<http://www.deanza.edu/distance/>

DESCRIPTION

An introductory study of environmental issues, their underlying causes and potential solutions from an interdisciplinary perspective, considering history, culture, philosophy and ethics, law and regulation, politics, economics, and management practices. Topics include current environmental issues related to nature/wildlife preservation, natural resource use and conservation, pollution control and prevention, and energy use and climate change. Students learn how their personal and career choices and actions can protect nature, preserve natural resources, prevent pollution, reduce energy demands and decrease climate change impacts for the benefit of current and future generations. (One field trip may be required outside of class time-there is a virtual option.)

View the video lectures in 3C Media. Link provided in Catalyst.

Please check with staff at the Stewardship Resource Center (SRC) for the times that it is open.
The SRC is NOT open on Fridays.

INSTRUCTOR INFORMATION: Jana Sanders

Office Hours Held: Through email (Wednesdays 10am-12noon)
Email Address: sandersjana@deanza.edu
Faculty Site: <https://www.deanza.edu/faculty/sandersjana/>
ES Dept website: <http://www.deanza.edu/es/>

REQUIREMENTS

Be prepared to:

1. **Complete an initial assessment** based on the information in this course syllabus. The purpose of this assessment is to ensure that students understand the assignment process, syllabus policies and use of Catalyst for turning in assignments.
2. **Review the information on the Catalyst website for this course (Catalyst.deanza.edu) or visit the Kirsch Center for Environmental Studies, Stewardship Resource Center (SRC)** for course information, use of text books in the Kirsch Center, assignment instructions and other information.
 - a. You **do not** need a special journal for this course.
 - b. **You will submit your Journal Summary assignments electronically in Catalyst.**
 - c. You will copy and paste your submissions into the assignment area for each Journal Summary; **OR** you can attach a WORD or PDF file. **Note:** file name must have .doc, .docx or .pdf extensions **ONLY**. **The instructor will not open or grade any other file types.** It is recommended that you save your Journal Summaries and other work on your computer.
3. **You will select your field trip option in Week 3.** All fieldtrip worksheets are found under week 4.
 - a. **Option #1: Non-Driver (virtual) field trip – Completed at the Kirsch Center SRC.** The Non-Driver (virtual) field trip done at the Kirsch Center SRC will consist of internet searches to complete questions about John Muir’s home and also 2 videos that must be watched at the Kirsch Center

- b. **Option #2: Non-Driver (virtual) field trip completed on your computer.** This is an accommodation for students who are not able to come to the Kirsch Center as many students who take this course are not in the De Anza College area.
- c. **Option #3: Self-guided field trip** to the John Muir National Historic Site, in Martinez, CA.
- 4. **There are 7 Review Assignments that must be completed by the due dates given in Catalyst.**
- 5. View all the **lectures in 3C Media, take notes on main points & vocab, and answer all journal questions.**
- 6. Complete all readings in the required text.
 - a. The **textbook** that students will use for this class is the custom version of Environmental Science – The Science Behind the Stories, by Withgott, J. and Laposata, M., Pearson Learning Solutions, 5th Edition. **Note:** This is a special, custom version of the textbook and contains additional information about our ES program and the Kirsch Center. Other editions of the textbook are available. Students who purchase these other versions are responsible for using the index of the book to research the pertinent reading assignments.
 - b. There are **NO** other resource materials that need to be purchased.
 - c. **Each late Journal assignment submission will lose up to 3 points. Late work is only accepted up to 1 week after due date. After 1 week no further submissions will be accepted. No late work will be accepted during finals week! All late work is due by the end of Week 5. (Week 6 work must be submitted on time) No late finals accepted! Late assignments lose up to 50% of points.**
- 7. Complete and turn in the **Student Environmental Action Plan, the Review Assignments, and the ppt lecture Journal Summaries** as instructed and through Catalyst.
- 8. Pass a **Final Assessment. This multiple-choice exam will be accessible to students during Finals Week and will be submitted electronically through Catalyst.**
- 9. **Assignment due dates** are listed in Catalyst for each assignment.

OBJECTIVES

After completing the reading assignments and watching the recorded lectures, you should be able to:

1. Examine environmental studies as an emerging field of study and its relation to the scientific field and other disciplines.
2. Assess and apply environmental and ecological concepts to modern life and a technologically based society.
3. Assess and explore the career opportunities in the environmental studies field.
4. Analyze the history of human use and exploitation of the earth's natural resources.
5. Examine the relationship between resource degradation and the changing role of humans in society.
6. Compare and contrast the history of land use ethics in Western versus non-Western cultures.
7. Explore the impact of the industrial revolution and other technological advances on the human relationship with nature.
8. Evaluate the effects of the conservation movement in the United States.
9. Assess the political system within the United States and its relationship to environmental degradation.
10. Analyze how ethics, politics and the current economic system within the United States have influenced environmental policies and regulation.
11. Assess the relationship between environmental degradation and the cycle of poverty.
12. Examine and describe the world's natural resources including air (the atmosphere), water (the hydrosphere), soil (the lithosphere) and species (the biosphere).
13. Assess and debate the current state of the world's natural resources and the impacts on human populations.
14. Analyze and explore possible solutions to the current state of the world's resources.

STUDENT LEARNING OUTCOMES:

1. Assess (apply) the criteria necessary to be successful in the Environmental Studies class.
2. Demonstrate a coherent understanding of the relationships between human use and exploitation of natural resources, environmental and ecological concepts and possible solutions and sustainable practices.

COURSE MATERIALS

Purchase at the De Anza College Bookstore/or check out for use at the SRC in the Kirsch Center
 [Phone: 408-864-8701 • <http://distance.deanza.fhda.edu/Bookstore.html>]

Environmental Science: The Science Behind the Stories, Withgott, J., and Laposata M., Pearson Learning Solutions, 5th Edition

(NOTE: This is a custom edition modified with specific information about De Anza College and the Environmental Studies Department.)

MEDIA COMPONENTS AND AVAILABILITY

PowerPoint lectures: *Introduction to Environmental Studies* video programs all available in 3C Media.

Viewing Directions for *Introduction to Environmental Studies (ES 1)* video programs:

- View audio ppt videos of the lecture using the active links in Catalyst for 3C Media.

STUDY EACH WEEK'S ASSIGNMENTS

The course content comes from the lectures and textbook readings.

Work on the lessons in the following order:

- Read the textbook assignment (prior to the next lecture video).
- Watch the lecture
- Complete any required written assignments (Journal note/questions, reviews).

COMPLETE THE WRITTEN ASSIGNMENTS

- Student Action Plan:** Each student will develop a Personal Environmental / Sustainability Action Plan
- Discussion/Lecture Topic Journal:** You are required to submit **weekly** electronic lecture journal summaries for this class through Catalyst.
 - The lecture journal must include all discussion topics assigned by the instructor **during** the videos (specifically, journal entry number & titles, date, discussion questions, vocab, notes & summary, **if there are additional videos to watch for the week you will also summarize these videos in your journal/answer the video questions – include the name.**
 - Discussion questions are given throughout the videos; please pause the video and answer discussion questions for your journal submission. You will submit BOTH notes & discussion answers together.
 - Completion of the lecture electronic journal is mandatory; if lecture journals are not submitted/completed, you will not pass the course.** The Lecture Discussion Journal is worth **110 points!**
- Extra Credit Opportunities: (Students may earn a **maximum of 15 points extra credit**) – these are listed in Catalyst. (optional)
- Review Assignments:** There are 7 Reviews Assignments that must be completed by the due dates in Catalyst.
- Assignment Submissions:** Your Lecture Journals, Review Assignments, Field Trip and Student Environmental Action Plan are to be submitted through Catalyst. Emailed assignments will not be accepted!
- Late Work Policy:** Late work is only accepted up to 1 week after each due date. Any outstanding and acceptable late work is due by Sunday March 20 at 4:30pm. Week 6 work must be submitted on time! No late finals accepted. All late work will lose points! Late journals lose up to 3 points. Late assignments lose up to 50% of points. Technical difficulties are not an excuse for late work as deadlines are posted well in advance and it is the student's responsibility to ensure they have access to the course videos and materials in a timely manner.
- Drops:** One week or more of outstanding journals and/or outstanding assignments may result in a drop from the course. (This is a time-compacted course so 1 week has 2 weeks worth of work!)

TESTING AND GRADING

There is one scheduled Final Assessment. It is a multiple-choice exam and is **mandatory**. You will not pass the course without completing and submitting the Final Assessment. **Students will take the final assessment individually by electronic submission in Catalyst.** No late finals accepted.

All work in your Journals, Review Assignments, Field Trip, and Student Environmental Action Plan must be your own work – you may work in groups, but your work must be in your own words and writing. If you are unsure about the meaning and definition of plagiarism, be sure to discuss with the instructor- this topic is also discussed in the introductory lecture.

Final Grades:

Point Breakdown:

Grading Scale:

Initial Assessment*	15	A	89 – 100%
Final Assessment*	100	B	79 – 88%
Review Assignments	49	C	69 – 78%
Kirsch Center Treasure Hunt	15	D	55 – 68%
Student Action Plan*	30	F	54% & below
Lecture Discussion Journal*	110		
Field Trip	20		
Homework 1	10		
Worksheets for <i>Six Degrees</i> Video	30		
Total Points	379 points		

***Must be completed in order to pass this course.**

You are required to comply with all rules and regulations as outlined in the Biological, Health and Environmental Sciences Division Handbook, as well as those of De Anza College (see De Anza College Catalog). The BHES Division Student Handbook is also available online at: <http://www.deanza.edu/bhes/StudentHandbook.pdf> as well as in the Science Center and Kirsch Center for Environmental Studies Resource Centers in hard copy. All information in the Student Handbook applies to this course and students will be held accountable for this information. In addition to outlining expectations of classroom behavior, this handbook contains many helpful resources for students as well as ideas to help student succeed in the sciences.

**“There are a lot of things in life that are worth the pain. Being a leader is one of them.”
Ronald Heifetz (author, *Leadership Without Easy Answers*, 1994)**

“There are two spiritual dangers in not owning a farm. One is the danger of supposing that breakfast comes from the grocery, and the other that heat comes from the furnace.” *Aldo Leopold, A Sand County Almanac*

<p>“Introduction to Environmental Studies” Lecture Schedule Overview</p> <p>Winter 2016</p>

Week & Lectures to View:	This Week’s Topics	Assignments Due:	
	<i>ALL LATE WORK RESULTS IN LOSS OF POINTS</i>		
Week 1: Journal 1: ES 1 Lecture 1 Intro 1 & ES 1 Lecture 1 Humans & Earth	Intro to ES 1 Humans and the Earth/History Environmental Issues, Causes Sustainability Personal Resource Inventory What is Environmental Studies ?	Initial Assessment Journal 1 Homework 1 Review Assignment 1	
Week 2: Journal 2: Environmental Method, & Champions of the Land, & Human History Journal 3: Global Environmental Challenges	Human History Agricultural->Industrial -> Environmental Revolution Native Americans and the Land U.S. Environmental History Champions of the Land (Muir) Hetch-Hetchy Debate Global Challenges	Journal 2 Part 1 of 6 Degrees Review Assignment 2 Kirsch Center Treasure Hunt Journal 3	

<p>& Preservation vs. Conservation</p>	<p>Preservationist vs. Conservationist</p>		
<p>Week 3: Journal 4: 3 Types of Federal Lands & Natural Resources & Oil on Ice & Drilling in ANWR YouTube video clips Journal 5: Environmental Ethics & Env. Hazards & Human Health</p>	<p><u>Human Use of Natural Resources</u> Wolves of Yellowstone NPS Sustaining our Forests National Parks Wilderness Areas Ecological Restoration Arctic Wildlife Refuge Debate Video: Oil on Ice Brief History of Oil Threatened Natural Capital Water Mineral Resources Threatened Humans The Green Revolution</p>	<p>Part 2 of 6 Degrees Part 3 of 6 Degrees Part 4 of 6 Degrees Fieldtrip Selection Journal 4 Review 3 Journal 5 Review 4</p>	
<p>Week 4: Journal 6: Environmental Politics Part 1 and Part 2, & Environmental Law Journal 7: Environmental Economics Part 1 & Part 2, & The Story of Stuff Thanksgiving Holiday: Nov. 26 - Nov. 29</p>	<p><u>Environmental Ethics</u> The Land Ethic (Leopold) Toxics Environmental Hazards Cultural Hazards Love Canal & Superfund Achieving a Low Waste Society <u>Environmental Politics</u> Environmental Law: Clean Air Act CEQA <u>Economics, Environment & Sustainability</u> Ecological vs conventional views of economic activity Economic worth of Earth's ecological services</p>	<p>Part 5 of 6 Degrees Mission Statement Field Trip Journal 6 Journal 7</p>	
<p>Week 5: Journal 8: Case Study-A Path to Sustainability in San Diego, & Who Killed the Electric Car Journal 9: US Energy Policy, & TEDx videos</p>	<p>Sustainable Cities Transportation Systems TOD Transit Oriented Development Env. Advocacy & Policy US Energy Policy Energy Waste Centralized vs. Decentralized Energy: Renewable versus Nonrenewable resources Sustainable Living Vegan Lifestyle</p>	<p>Review Assignment 5 Review Assignment 6 Journal 8 Journal 9 Review Assignment 7</p>	

