

# Environmental Science (ESCI 1.63Z)

Distance Learning CRN#33829

Jana Sanders

Winter Quarter 2016

4.0 Units

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De Anza College, Division Of Biological, Health & Environmental Sciences  
Environmental Studies Department

**Kirsch Center For Environmental Studies (KC)**

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## DESCRIPTION

An introduction to environmental science as a branch of the sciences and its relation to the scientific field including the scientific method. Review of the principles, concepts and terminology of the environmental sciences and ecological literacy including restoration ecology, landscape ecology, sustainable studies and ecosystem management. Agenda 21 and other environmental indicator tools as they relate to human use of the earth's systems including the hydrosphere, atmosphere, lithosphere and biosphere and the impact on cultural, ethnic and gender groups will be explored.

**INSTRUCTOR INFORMATION: Jana Sanders**

**Office Hours Held: Through email (Wednesdays 10am-12noon)**

**Email Address: sandersjana@deanza.edu**

**Faculty Site: <http://www.deanza.edu/faculty/sandersjana/>**

**ES Dept website: <http://www.deanza.edu/es/>**

\*I do not use the in-Catalyst messaging system (it has too many issues). So you must email me; if you send me a message in Catalyst I may not get it.

## REQUIREMENTS

Be prepared to:

1. "Attend" class by logging on to Catalyst!
2. Complete all reading, journal and activity assignments. (Over 2 weeks of missing work may result in a drop from the course)
3. 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 and use of Catalyst for turning in assignments and contacting the instructor.
4. Review the information on the Catalyst website for this course (Catalyst.deanza.edu)
  - a. You do not need a special journal for this course.
  - b. You will submit your Audio ppt lecture journal 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 work to you computer.
5. Complete a virtual fieldtrip.
6. View all the audio ppt lectures @ 3C Media and all additional videos online, take notes and answer all journal questions (asked during the lectures) & video questions.

7. 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 Brennan, S., M., Pearson Learning Solutions, Custom Edition for De Anza College. 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. Week 10 & Week 11 work must be submitted on time!
8. Complete and turn in the Activity Assignments and the Audio ppt lecture Journal Summaries as instructed and through Catalyst.
9. Pass a Final Assessment. This will be provided to students during Finals Week and will be submitted electronically through Catalyst.
10. Assignment due dates are listed in Catalyst for each assignment.

## OBJECTIVES

- Examine environmental science as a branch of the sciences and its relation to the scientific field including the scientific method.
- Examine and survey ecological concepts and vocabulary.
- Examine and survey the world’s natural resources including water, air, soil, species, ecosystems, energy and minerals (WASSEEM).
- Assess and survey the environmental indicators utilized to assess current trends in our environment.
- Assess and apply ecological literacy to modern life and a technologically based society.
- Examine the environmental method as a problem--solving tool to develop solutions to the problems created by overuse of the world's resources.
- Examine the worldwide strategies developed to address global environmental issues including Agenda 21, the Montreal Protocol, ISO 14000 and the Kyoto Protocol.

## POINT BREAKDOWN:

Initial Assessment	10
Activities 1-11	55
* Journals 1-11 *	110
Virtual Fieldtrip	20
* Midterm Assessment *	50
* Final Assessment *	75
<b>Total:</b>	<b>320</b>

**\* Must be completed in order to pass the course \***

**GRADING SCALE:**

A	89 - 100 %
B	79 - 88
C	69 - 78
D	55 - 68
F	54 & below

**COMPLETE THE WRITTEN ASSIGNMENTS**

- 1. Audio ppt 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: notes, vocab, main points, discussion questions and summary, **if there are additional videos to watch for the week you will also summarize these videos in your journal - include the name and answer all additional video questions.**
  - Discussion questions are given throughout the videos; please pause the video and answer discussion questions for your journal submission.
  - 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!**
- 2. Extra Credit Opportunities:** (Students may earn a **maximum of 15 points extra credit**) Extra credit must be submitted on time! No late extra credit accepted!
- 3. There will be 11 Activities that must be completed by the due dates in Catalyst.**
- 4. Submitting Assignments:** Your Lecture Journals, Activities, and Field Trip are to be submitted through Catalyst. **Emailed assignments are NOT accepted!** Due dates listed in Catalyst. Assignments will close 1 week after due date.
- 5. Late Work Policy: Late work is only accepted up to 1 week after each due date. Any open & outstanding late work is due by Thursday March 10 at 5pm. Week 10 & Week 11 work must be submitted on time! No late finals accepted. No late midterms accepted. All late work will lose 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 lectures/videos/materials in a timely manner.**
- 6. Drops:** Two weeks or more of outstanding journals and/or outstanding assignments may result in a drop from the course.

**\* \* You cannot pass this course without completion of the journal, midterm and final exam. \* \***

**REQUIRED TEXTBOOKS:**

Withgott & Brennan, "Environmental Science: The Science Behind the Stories," Custom Edition for De Anza College.

\*If you cannot purchase one, they are available for free checkout for 2 hours at the

SRC – Although you cannot take it home.

### **COMPUTER/INTERNET AVAILABILITY**

The Kirsch Center (and other campus facilities) has computers available for student use. It is your responsibility to check with the Student Resource Center within the Kirsch Center for hours of operation to ensure that you are able to complete your work and submissions on time.

### **MEDIA COMPONENTS AND AVAILABILITY**

- Audio ppt lectures *Introduction to Environmental Science* video program all available in 3C Media Solutions.

### **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 ESCI 1 hosted by 3C Media Solutions. (Link at the top of the class)

### **PLAGIARISM/COPYING**

**Copying will not be tolerated.** You are only to submit your original work- no copying from other students in the class (or prior classes) and/or the Internet. The college has a strict policy that will be enforced. For more information visit:

<http://www.deanza.edu/studenthandbook/academic-integrity.html>

### **READING SCHEDULE:**

<b>Journal #</b>	<b>Chapter: Topic</b>	
1	1: Science and Sustainability	
2	2: Earth's Physical Systems	
3	3: Evolution, Biodiversity, and Population Ecology	
4	4: Species Interactions and Community Ecology	
5	5: Environmental Systems and Ecosystem Ecology	
6	6: Environmental Ethics and Economics	
7	7: Environmental Policy	
8	18: Global Climate Change	
9	14: Environmental Hazards and Human Health	
10	Case Study: Coyote Valley <a href="http://deanza.edu/es/wildlifecorrproj/Safe%20Passagelowres.pdf">http://deanza.edu/es/wildlifecorrproj/Safe%20Passagelowres.pdf</a>	
11	24: Sustainable Solutions	