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# ENSC 105.01: Environmental Science Online

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ENSC 105 ~ ONLINE ENVIRONMENTAL SCIENCE

Dr. Vicki Watson & Matt Erickson, MS

Spring 2013

Class Goals:

- Provide students with opportunities to make a difference
- Help students build:
  - Scientific literacy
  - Skills in critical thinking, research & self-instruction
  - Understanding of the scientific basis of environmental issues, policies, laws
  - Habit of informed, active participation in social decisions
  - Habit of service to their community and the earth

<u>Week</u>	<u>Lecture Topic</u>	<u>Readings*</u>
1 (1/28)	Course goals & mechanics:	<i>Course polices, assignments, etc.</i> M – Humans and Sustainability <a href="http://www.earthcharter.org">www.earthcharter.org</a>
2 (2/4)	Literacy ~ Scientific & Ecological	M – Environmental Economics Scientific vs Philosophical Statements
3 (2/11)	Ecosystems - energy flow, productivity Cycles, environmental fate – can't throw anything away <i>Ecosystem services, tragedy of the commons</i>	M – Ecosystems <i>Ecosystem Services Website, Daily, Hardin</i>
4 (2/18)	Communities – connections: can't do just one thing Kinds of diversity; all creatures have a role Change, disturbance, condition	M – Community Ecology <a href="http://www.worldwildlife.org/wildworld">www.worldwildlife.org/wildworld</a>
5 (2/25)	Populations – genetic diversity, adaptation, flexibility, growth, limits, carrying capacity	M – Population dynamics
6 (3/4)	<b>***EXAM 1*** Wednesday, March 6 – 7:00-9:00pm</b>	Study Guide 1
<b>Scientific Basis of Environmental Laws &amp; Policies</b>		
7 (3/11)	NEPA, pop policy, kinds of env. Laws	M- Major events in US Env. History <a href="http://www.epa.gov/compliance/nepa/index.html">http://www.epa.gov/compliance/nepa/index.html</a>
8 (3/18)	Land Conservation Policy	M – Biodiversity, Ecosystems Approach
9 (3/25)	Water (Clean Water Act, etc) Toxics (TSCA, FIFRA, etc)	M – Water Resources M – Hazardous Waste <i>O.S.F statement on toxics</i>
10 (4/1)	Spring Break	Enjoy your Environment!
11 (4/8)	Air (Clean Air Act & G. Smith Guest Lecture) Eco-footprint Calculator	M – Air Pollution <a href="http://www.earthday.net/footprint/index.asp">http://www.earthday.net/footprint/index.asp</a>
12 (4/15)	Biodiversity (ESA, etc) Food (AgroEcology)	M – Sustaining Wildlife M – Food Resources
13 (4/22)	Climate	M – Climate Change
14 (4/29)	Energy and Waste	M- Energy Resources <i>Ecoliteracy</i>
15 (5/6)	<b>***EXAM 2*** Wednesday, May 8 – 7:00-9:00pm</b>	Study Guide 2

\*Textbooks used in this course:

M = G. Tyler Miller's *Sustaining the Earth* (use table of contents & index to find associated readings)

Additional readings will be posted on Moodle.

## ENSC 105 – Assignments

Spring 2013

All assignments are due the week indicated below. For example, Week #1 begins on Monday, January 28th . Any assignments for the week are due by the end of the week, Friday at 5:00 pm. In this example any assignments due for Week #1 should be turned in by Friday, February 1, before 5:00pm. This pattern is true for all assignments.

Late assignments will lose 10% of the points for every week they are late, unless other arrangements have been made IN ADVANCE.

Assignment Format ~ plain Emails are fine for all correspondence, but FOR GRADED ASSIGNMENTS: I would like your assignments (such as proposals, reports, etc) attached to an email as a separate file, preferably MS Word. You should complete these assignments just as you would if you were going to hand in a paper copy. Instead of printing them out, you'll just be emailing me a copy.

Please keep a copy of all assignments turned in as a record.

### Week Assignment

1 (1/28) Send instructor an email introducing yourself and your interests. Purchase books.

2 (2/4) Learning Contract due

3 (2/11) Proposal (10 pts) due for Community Service Project.

4 (2/18) Proposal (10 pts) due for Research Paper and Letter.

5 (2/25) Revised Community Service Project Due.

6 (3/4) EXAM #1 this week. \*\*\*March 6, 7:00 – 9:00 PM\*\*\*

7 (3/11) Revised Research Paper and Letter Proposal Due.

8 (3/18) Nothing due. Check out some field trip opportunities (extra credit).

9 (3/25) Nothing due, but you need to be working on your paper.

10 (4/1) Spring Break

11(4/8) Research paper and Letter Due Friday 4/12 by 5:00 PM

12 (4/15) Nothing due.

13 (4/22) Nothing due.

14 (4/29) Community Service Project Report due Friday 5/3 by 5:00 PM(final week to submit field trip write-ups)

15 (5/6) EXAM #2 this week. \*\*\*May 8, 7:00 – 9:00 PM\*\*\*

ENSC 105 – Grading  
 Spring 2013  
 Grade based on percentage of 500 points earned

**HOW TO EARN POINTS (maximum possible points shown):**

<u>Point Value</u>	<u>Item</u>
200	2 Exams (100 each)
25	Introductory Letter
25	Learning Contract
50 (25 x2)	Special Topic Questions
<b>100 Total</b>	<b>Service Project</b>
10	- Proposal
90	- Report & Thank you Letter
<b>100 Total</b>	<b>Research Project</b>
10	- Proposal
70	- Report
20	- Letter to decision maker
<b>50 (Extra Credit)</b>	<b>Field trips or Conferences &amp; Reports on same</b>

Total Points Possible = 500 + 50 E.C.