Introduction to Environmental Studies ENVR110, Spring 2016

PROFESSOR NICHOLAS HENSHUE

Syllabus last updated 1/14/16

Expectations: Environmental studies is a multi-disciplinary science, encompassing the best of chemistry, biology, earth science, and life science. Discussions about politics, consumerism, economics, and art are also prevalent in looking at "the big picture". This is one of the few classes you can take to talk about everything from hunting to cars, and recycling to development. Students will be exposed to the (very) basic introductions of many environmental fields. Topics include ecology, pollution, energy, and population. To this end, each one of my students is expected to work to their full capability. You will be unable to merely show up for a class and anticipate a passing grade. Intensive reading, writing and higher level thought are expected of each of my students, with approximately an in-class to out-of-class preparation ratio of 1:1.

Location: 218 Comenius Hall

Time: 8:55-10:05, Monday and Wednesday
Office Hours: Wednesday, by appointment only
Cell Phone (for emergencies only): 610.704.7344
Email: henshuen@moravian.edu or nick@henshue.org

Required Course Materials: See bibliography

Evaluation:

6 bi-weekly quizzes @ \approx 30Pts each (50%); homework assignments and participation (25%); and a final exam (25%)

Grading Scale:		
A (92-100)	B- (80-82)	D+ (68-70)
A- (90-92)	C+ (78-80)	D (62-68)
B+ (88-90)	C (72-78)	D- (60-62)
B (82-88)	C- (70-72)	F (0-60)

You must notify me beforehand if you need to reschedule a quiz. If you do not, you will receive a zero for that quiz. Period. Moravian College policies regarding academic honesty will be enforced. Please familiarize yourself with the Academic Honesty Policy included in your student handbook, and on the web at http://www.moravian.edu/studentlife/handbook/academic/academic/2.html.

Tests will consist of short answer, multiple choice/fill-in-the-blank AND essay questions. Typically quizzes will be 10 multiple choice and 3-5 short answers or essays. They will contain questions from the readings, discussions, notes, and in-class activities. EVERYTHING IS FAIR GAME FOR THE QUIZZES. If there is a disagreement with my grading of a particular question, you may submit a 'reevaluation request' in writing to me (an email is fine) no longer than one week after the quizzes have been handed back to you. This request should consist of the following: 1—identify the question in dispute, 2—provide an explanation as to why the question was incorrectly evaluated (in the your opinion), 3—propose a suggested remedy. I will then review this request carefully and return a written decision to you within a week. Please note that a re-evaluation on a quiz item can be scored either UP or DOWN from the current grade, and the final grade is binding.

I have been doing this a long time. If you have an issue, PLEASE come talk to me. There isn't too much I haven't heard or dealt with. Good communication is the root of any professional relationship.

This course is structured to be very reading intensive. I have spent years putting together the list of articles that you will be reading, and they are good. No, really. All of the readings not located in the two books on the bookstore list will be provided for you as .PDF files on Blackboard. The syllabus contains all the assignment titles and the dates they are due. Please check Blackboard regularly for announcements and assignments. If you miss a class, be sure to check with a classmate for any missed assignments. You will not be given extra time to complete an assignment, simply because you have missed a class.

The use of cell phones is not permitted in class. Stay on task with your electronics. Facebook and Reddit will be there after lecture. You are paying to be in my class. Make it count.

Attendance is mandatory. You will be permitted to miss two classes (one week's worth) after which you will drop one full letter grade for each missed class.

Should you have any individual concerns regarding a documented disability please discuss this with me privately before or during the first week of class in person or via email. Students who wish to request accommodations in this class for a disability should contact the Academic Support Center, located in the lower level of Monocacy Hall, or by calling 610-861-1401. Accommodations cannot be provided until authorization is received from the Academic Support Center.

BIBLIOGRAPHY:

Required	books:
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Leopold, Aldo, and Charles Walsh. Schwartz. A Sand County Almanac, and Sketches Here and There.
London: Oxford UP, 1968. Print.

☐ Martenson, Chris. The Crash Course: The Unsustainable Future of Our Economy, Energy, and Environment. Hoboken, NJ: Wiley, 2011. Print.

Both are available through the B&N Moravian bookstore, online, and in book stores. Rumor has it that the Oxford Publishers edition of A Sand County Almanac is the only one that has held all of Aldo Leopold's original text. Other editions have been edited for use in public schools in Kansas and Texas. Try and get the Oxford Press edition, if possible.

Bibliography for provided resources and further reading for ENVR110, F2014.

Do about It. New York: PublicAffairs, 2009. Print.

A Crude Awakening: The Oil Crash. Dir. Basil Gelpke and Raymond McCormack. Lava Productions,
2006. DVD.
Abel, Daniel C. Environmental Issues: Looking towards a Sustainable Future, Fourth Edition. S.l.: Pearson
Custom, 2012. Print.
Bryson, Bill. A Short History of Nearly Everything. New York: Broadway, 2003. Print.
Easton, Thomas A. Taking Sides. Boston: McGraw-Hill, 2010. Print.
Graaf, John De, David Wann, and Thomas H. Naylor. Affluenza: How Overconsumption Is Killing Us-
and How We Can Fight Back. Print.
Majumdar, Shyamal K. Biological Diversity: Problems and Challenges. Easton, PA: Pennsylvania
Academy of Science, 1994. Print.
Majumdar, Shyamal K., and E. Willard Miller. Pennsylvania Coal: Resources, Technology, and Utilization.
Easton, PA: Pennsylvania Academy of Science, 1983. Print.
Morin, Peter Jay. Community Ecology. Chichester, West Sussex: Wiley, 2011. Print.
Quammen, David. The Song of the Dodo: Island Biogeography in an Age of Extinctions. New York:
Scribner, 1996. Print.
Royte, Elizabeth. Garbage Land: On the Secret Trail of Trash. New York: Little, Brown, 2005. Print.
Smith, Robert Leo., and T. M. Smith. Ecology & Field Biology. San Francisco: Benjamin Cummings,
2001. Print.
Sodhi, Navjot S., and Paul R. Ehrlich. Conservation Biology for All. Oxford: Oxford UP, 2010. Print.
Weber, Karl. Food, Inc.: How Industrial Food Is Making Us Sicker, Fatter and Poorer - and What You Can

COURSE OUTLINE

This schedule is tentative, and may be revised as the semester moves forward. As noted, please allow sufficient time to prepare for each class, as most of the readings are greater than 20 pages. There will frequently be additional assignments (Homework Due) to complete that we did not finish in class. This column will vary significantly based on the class's progress. The Reading column will not.

		Topic	Reading due	Homework Due
Week	18-Jan	Introduction to environmental issues		
1	20-Jan	Environmental history	The Tragedy of the Commons β	
Week	25-Jan	Ecology I	January-December α	Env opinion essays
2	27-Jan	Ecology II	CH2 Cons Bio For All β	
Week	1-Feb	Biodiversity I	CH3 Cons Bio For All β	quiz 1
3	3-Feb	Biodiversity II	CH4 Cons Bio For All β	
Week	8-Feb	Population Ecology I	Personal Recollections of the Passenger Pigeon β	Bean Biodiversity
4	10- Feb	Population Ecology II	Chapter 10, Ecology and Field Bio β	
Week	15- Feb	Human population I	Part II (CH5-9) in δ	Quiz 2
5	17- Feb	Human Population II	What's Eating America?	World Population Web Lab
Week	22- Feb	Agriculture	"The Worst Mistake" β	Population Math Lab
6	24- Feb	Agriculture II	Chapter 4 (Food, Science) & 7 (Cheap Food), Food INC.	
Week	29- Feb	Water resources	CH 21+22 δ	
7	2-Mar	Water resources II	Flushing it Away, Garbage Land β	Quiz 3
Week	7-Mar	Spring Break!		Complete Healthy Home
8	9-Mar	Spring Break!		Audit while at home!
Week	14- Mar	Metals and minerals	CH 19+20 δ	Carrying Capacity Math Lab
9	16- Mar	Nonrenewable Energy	Part IV (CH 15-18) δ	

Week	21- Mar	Coal	Origin, Char and Prop of PA Coal	Quiz 4
10	23- Mar	Natural Gas and Oil	A Crude Awakening - 1:22:00 on YouTube. MAY BE DEPRESSING β	Coal Math Lab
Week	28- Mar	Air Pollution I	Getting the Lead Out, Short History of Nearly Everything CH 10 B	
11	30- Mar	Climate Change I	Global Warming's Terrifying New Math β	
Week	4-Apr	Climate Change II	Global Warming Skepticism, Taking Sides, Issue 8 β	Quiz 5
12	6-Apr	Renewable Energy I	Biofuels and National Security, Taking Sides, Issue 11 β	Greenhouse Gas Math Lab I&II
Week	11- Apr	Renewable Energy II	Why Bother? β	
13	13- Apr	Garbage/Recycling	Intro-CH 4 Garbage Land- NOTE- Long reading but worth it!	Blowing in the Wind Math Lab
Week	18- Apr	Stuff	Affluenza, CH 1, 2, 9, & 10	Quiz 6
14	20- Apr	Economics of nature	part III (CH 10-14) δ	
Week	25- Apr	Conservation	IL&IA, AZ&NM, Chihuahua & Sonora, OR&UT α	
15	27- Apr	Land ethic	Part III (The Upshot)α	

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2-May	Final Exam	11:30-1:30 Comenius Hall

Reading codes:

α= A Sand County Almanac, by Aldo Leopold
3- found on course Blackboard website in that week's folder
δ- The Crash Course, by Chris Martenson