

BIO 138 Environmental Science Lecture

Henry Ford Community College

- I. Instructor** Mrs. Judith Kelly
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- II. Division Name** Science
- III. Course Number & Title** BIO 138 Environmental Science
- IV. Credit Hours** 3
- V. Total Contact Hours** 47
- VI. Prerequisite** None
- VII. Co-requisites** None
- VIII. Course Grading Scale** A-E
- IX. Catalog Description** Environmental Science is an interdisciplinary study, combining ideas and information from the natural sciences (such as biology, chemistry, and geology) and the social sciences (such as economics, politics, and ethics) to present a general idea of how nature works and how everything in nature is interconnected. Current environmental concerns are discussed. Human modification of natural systems and strategies for promoting environmental health are emphasized.
- X. Course Goals** This course will present the fundamental concepts of

environmental science. After completing this course students will be able to:

- use scientific laws, principles, models, and concepts to understand environmental and resource problems and possible solutions.
- understand how these concepts, problems and solutions are connected.
- develop a list of principles, concepts, and rules to serve as guidelines in making decisions.
- think logically and critically.

XI. Major Core Course Objectives

Students who successfully complete the assignments should be able to:

1. Analyze experimental data. *
2. Demonstrate use of critical thinking skills in the analysis of experimental data. *
3. Write a formal report using a standard format.
4. Demonstrate familiarity with library resources and electronic media and use criteria with which to judge reliability of various resources.
5. Recall and restate basic scientific facts and concepts, as listed in the individual unit objectives.
6. Recognize the components of an ecosystem and explain the relationships among them.
7. Describe the major sources of pollution.

8. Describe effects of pollutants on ecosystem structure and function.
9. Analyze current environmental problems.
10. Describe the concept of sustainability and how it applies to solutions to current environmental problems.
11. Describe the process of global climate change and its possible impacts on the Earth

* critical thinking assessment

XII. Course Textbook & Materials

Living in the Environment. 15th Edition. G. Tyler Miller

Download the Audio book in MP3 file format

<http://audiobook.brookscole.com/miller15>

Use the access code inside your textbook to register for a personal user name and password.

XIII. Course Grading Policy

Assessment methods for this course include weekly assignments and discussion board activities and 4 exams.

XIV. Packets

Packets are readings, activities, and assignments for a particular week. You will be able to access a course packet every Monday morning at 9:00AM. The packet will provide details regarding the readings required for that particular week as well as specifics for the activities and/or assignments that are due for that week. All of the activities and assignments from that packet will be due the following Monday at 9:00AM.

XV. Activities/Assignments

The activities and assignments will vary throughout the semester. The assignments will consist of writing which will reflect your performance of an activity and your

understanding of the subject matter of the packet. The specifics of each assignment will be expressed in each weekly packet.

XVI. Late Assignments

Assignments that are turned in late will result in a 10% deduction *per day* from the overall grade of the assignment. Late assignments are accepted *only* one week after their due date.

Quizzes and exams must be completed within the week that they are due. Late quizzes and exams are not accepted for credit.

XVII. Participation & Drop Policy

Students are expected to complete all weekly assignments and activities contained within this course. Penalties may be imposed, at the discretion of the individual instructor, whenever the quality of the student's work has been affected by non-participation and non-completion of course assignments and activities.

Drop Policy

For Fall Semester 2007, the official college policy for the last day to withdraw from courses is November 8, 2007.

Tuition Refunds

Refunds on tuition and fees (except registration fees) may be obtained on all classes of fifteen-week duration officially dropped according to the following schedule:

100% 1st week of classes

50% 2nd week of classes

No tuition refunds are given after the end of the second week of classes and no exceptions are made for students who enter late. Courses of other than fifteen-week duration have differing refund schedules. Details may be obtained in the Office of the Registrar.

Students receiving federal financial aid have additional refund options available to them. They should review the brochure Financial Aid Information Guide and Consumer

Information Supplement, available in the Financial Aid Office.

XVIII. Online Conduct Policy

A. Students at HFCC are expected to show respect for order, law, the personal rights of others, and the educational mission of the College, as well as to maintain standards of personal integrity.

B. Students working online will be held to the same behavioral standards as students in traditional classrooms. Please be aware that I will be observing your threaded discussions with each other, and I will review those discussions, commenting where appropriate with the goal of helping you to better understand the course content. Specifically, you should adhere to the following guidelines:

- Personal correspondence should be conducted elsewhere.
- Treat and respect others as you would like to be treated.
- “Flaming”, an angry series of words or comments used to personally attack others who may disagree with you, is not permitted.
- Take time to review the tone, language, word choice, spelling, and grammar of any written correspondence prior to sending it. You will be judged by the quality of your work.
- HFCC’s computer use policy is in effect. It can be found at <http://www2.hfcc.edu/resources/policy.htm>
- Students are responsible for completing their own online course work.

XIX. Academic Dishonesty Policy on Academic Dishonesty (Cheating)

Henry Ford Community College considers academic dishonesty to be a serious offense. It is the policy of the College that determination of and appropriate action in respect to academic dishonesty by a student shall be a matter of individual judgment by the instructor. The instructor may administer a penalty up to and including failure in the particular course. It is the professional obligation of the faculty to enforce academic integrity in their courses.

Academic dishonesty is any activity intended to improve a student's grade fraudulently.* It includes, but is not limited to, the following:

1. Unauthorized acquisition of tests or alteration of grades (such as the stealing of tests, test keys, or grade books from faculty offices or elsewhere, or the purchasing of tests or grade books);
2. Unauthorized use of notes, books, or other prohibited materials during an examination;
3. Open cheating on an examination (such as copying from another student's paper);
4. Permitting another person to take a test in the student's place or receiving unauthorized assistance with any work for which academic credit is received;
5. Providing unauthorized assistance with any work for which academic credit is received;
6. Revision of graded work in an attempt to receive additional credit fraudulently;
7. Plagiarism (using another person's work without acknowledgment);
8. Any other conduct intended to obtain academic credit fraudulently or dishonestly. If an instructor fails a student in a course for academic dishonesty, the instructor must immediately notify in writing the student and the registrar of the infraction, retaining copies of both notifications.

The registrar maintains a record of all such violations. If a student fails two classes as a result of academic dishonesty, he or she is dismissed from the College for two academic years. In addition, a notation of the reason for academic dismissal is placed on the student's transcript. The notation may be expunged at the discretion of the appropriate vice president if the student petitions for its removal after at least two years have elapsed since the disciplinary action. If a student believes that the accusation is false, he or she may appeal through the Student

Complaint Procedure. If the appeal reaches the Student Complaint Board, the Board may consider only whether the charge is justified. The Board may not set aside or change the penalty given by the instructor unless the charge of academic dishonesty is set aside.

*Any action that violates the Student Conduct Policy and Due Process Procedure is also subject to review under that policy.

XX. Student Support Services

Data & Voice Administration

If you need assistance with username and password issues, please contact Data & Voice Administration help desk at 313-845-6345. For the latest information on logins and passwords, please visit <https://dvc.hfcc.net/passwords> the Data & Voice office is on the third floor of the ASCC Building.

Instructional Technology

If you require assistance using UCompass Educator courses, please contact Instructional Technology at 313.845.9663, ext.4, 5, or 6 or via e-mail at signorelli@hfcc.edu, kolin@hfcc.edu, or drinaldi@hfcc.edu. Instructional Technology is located on the lower level of the Learning Technology Center (same building as Campus Safety), room A-004.

Media Center

Located on the second floor of the Library, the Media Center is an open access computer lab where students can go to work on computer assignments, access the internet, and/or check their e-mail. For more information, you may contact the Media Center at 313.845.6386. For more information regarding Library Services, you may phone 313.845.9606.

Assisted Learning Services

The Assisted Learning Services Program is designed to assist physically challenged, learning disabled, or academically disadvantaged students at Henry Ford Community College to overcome barriers to education

through supportive services. In addition, the Assisted Learning Services Department also provides tutoring services to the general student population. Assisted Learning Services is located in the LRC (Learning Resources Center), north side (parking lot side) main level. For more information, you may contact the office at 313.845.9617 or for the hearing impaired 313.845.9804.

Learning Lab

Located on the second floor of the Learning Resource Center, the Learning Lab assist HFCC students with identifying and improving the skills needed for success in the areas of Reading, Writing, and Math.

Although operation hours may slightly vary each semester, generally, the Learning Lab is open Monday, Tuesday, Wednesday, Thursday, from 7:30 a.m. – 8:40 p.m., on Friday from 7:30 a.m. – 4:30 p.m., and Saturday from 9:40 a.m. – 1:40 p.m. For more information, contact the Learning Lab at 313.845.9643.

Weekly course Schedule

Week 1	Introduction	Ch 1
Week 2	Sustainability	Ch 2 & 3
Week 3	Ecosystems	Ch 4, 5 & 6
Week 4	Biodiversity	Ch 7 & 8
Week 5	Community & population ecology	Ch 9
	Human population	
	Lecture Exam 1 Ch 1-8	
Week 6	Sustainable cities	Ch 23
Week 7	Sustaining Biodiversity	Ch 10, 11 & 12
Week 8	Food, soil and pest management	Ch 13
Week 9	Risk, human health and toxicology	Ch 18
	Lecture Exam 2 Ch 9-13 & 23	
Week 10	Pollution	Ch 14, 19 & 21
Week 11	Geology & nonrenewable minerals	Ch 15
Week 12	Energy	Ch 16 & 17
Week 13	Climate change & ozone loss	Ch 20

Lecture Exam 3 Ch 14-19 & 21

Week 14	Solid & hazardous waste	Ch 22
Week 15	Environmental Economics, Politics and Sustainability	Ch 24 & 25
Week 16	Environmental Worldviews, Ethics and Sustainability	Ch 26

Lecture Exam 4 Ch 20 & 22-26

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