EOH 740 - Fundamentals of Environmental Health
Spring 2016

Classroom: WRI C233, Monday, 5:30 to 8:15 p.m.


Course Content: This course will discuss the chemical, physical and biological factors in the environment and their interactions with the human activities. These interactions typically impact both the quality of life and environment. Special attention will be given to the following topics: 1) Population Growth and Environmental Stress, 2) Vector-borne and Foodborne Illnesses, 3) The Atmosphere and Air Pollution, 4) Water Resources and Water Pollution, and 5) Solid Waste Management. Upon completion of this course, each student will have a broad knowledge of the environmental health discipline and acquainted with the most important issues and challenges to be addressed in this field.

Exams/Grading: There will be a total of three exams: two midterm exams and a final exam, worth 50 points each. The final will not be comprehensive, focusing only on material presented after the 2nd midterm. Each student will be required to write a research paper* with a minimum of 9 double-spaced typed pages (11 page maximum), worth 50 points, due on April 18, 2015. The paper should be appropriately referenced and must include a complete bibliography. An oral presentation of the research paper topic will be given by each student, worth 25 points. Class participation will include attendance and group discussion, worth 25 points, for a total of 250 points for the course. No other extra credit will be offered.

*ALL PAPER TOPICS MUST BE CLEARED WITH THE INSTRUCTOR PRIOR TO BEGINNING ANY RESEARCH. PLEASE ESTABLISH A TOPIC AS SOON AS POSSIBLE. TOPICS WILL BE ASSIGNED ON A FIRST COME FIRST SERVED BASIS.

Late papers and make-up exams: Notify the instructor if you are not able to turn in your research paper on time. With advance notification, 5 points will be deducted from the grade for late papers. For papers turned in late without advance notification, AND for all papers turned in later than 1 week, 10 points will be deducted from the grade. Make-up mid-term exams must be scheduled with the instructor and completed within 1 week (i.e., before the next class period). Make-up final exams must be scheduled with the instructor and completed by the end of final exams week.

Grade Scale:
93-100% A
90-92% A-
87-89% B+
80-86% B
70-79% C
60-69% D
<60% F
NOTE: Anything below a B will not qualify for graduate credit.

**Lecture Notes**

Each lecture will be available to you through the internet-based WebCampus program at least 1 day before the class. The course is listed in WebCampus as EOH 740, section 1001. These notes should be brought to class and used to assist you in your learning experience. However, these notes are not to be used as a substitute for coming to class. These notes provide you with a tentative outline of the material, but are subject to change based on the rate of class progression. You are responsible for any changes, announcements, or assignments given during class time. Supplemental reading material will be posted on WebCampus for you.

**Learning Outcomes**

By the end of this course students should be able to successfully:

- Understand the biological and molecular context of public health (public health biology) (MPH 012).
- Recognize system level properties that result from dynamic interactions among human and social systems and how they affect the relationships among individuals, groups, organizations, communities, and environments (MPH 013).
- Characterize the biological, chemical and physical hazards affecting human and ecosystem health (EOH 001).
- Describe the impact of social and behavioral influences on health and the interaction of these influences with environmental hazards (EOH 003).
- Organize data and information, prepare technical reports, and give oral presentations on recognition, evaluation, management and control of environmental health hazards (EOH 004).
- Identify current regulatory problems and legislative authorities directed at managing contamination in water, air, soil and food (EOH 005).
- Critically read scientific and lay literature in the field of environmental health sciences (EOH 007).

**Tentative Course Syllabus**

Class format will consist of lectures and discussions. In addition to the textbook, paper will assigned for you to read in advance for discussion in class. You may be called on during any class period to participate in the discussion, so it is imperative that you read the papers and prepare. These papers will be posted in WebCampus and announced in class. Material from the lecture, textbook, and assigned papers will all be included in the exams. The lecture topics and
The reading assignments schedule is subject to change. Any changes to this schedule will be announced in class, and a revised schedule will also be posted in WebCampus.

<table>
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<tr>
<th>Date</th>
<th>Topic</th>
<th>Chapter in Text</th>
<th>Competency Addressed</th>
<th>I=Introduced</th>
<th>R=Reintroduced</th>
<th>E=Enforced</th>
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| 25   | • Syllabus  
    • Introduction to Ecological Principles  
    • Reading assignment #1 posted on WebCampus as pdf under readings folder | 1 | I | |
|      | • Discussion of Reading #1  
    • Population Dynamics  
    • Population Control  
    • Reading Assignment #2 posted | 2 | | R |
|      | • Discussion of Reading #2  
    • The People-Food Predicament  
    • Impacts of Growth on Ecosystems  
    • Reading Assignment #3 posted | 3 | | R |
|      | • Washington’s Birthday Recess | 4 | | |
|      | • Discussion of Reading #3  
    • Environmental Disease  
    • Toxic Substances | 5 | | E |
|      | • Mid-term Exam I  
    • Pests and Pesticides  
    • Reading Assignment #4 posted | 6 | | E |
|      | • Deadline to establish research topic  
    • Discussion of Mid-term I  
    • Discussion of Reading #4  
    • Food Quality  
    • Radiation  
    • Reading Assignment #5 posted | 7 | | E |
|      | • Discussion of Reading #5  
    • Atmosphere  
    • Clean Energy Alternatives  
    • Reading Assignment #6 posted | 8 | | R |
| 29   | • Mid-term Exam I | 1-7; Readings 1-3 8 | MPH 012-13, EOH 001, 003, 005 EOH 007 | E, E | | E |
|      | • Mid-term Exam I | 1-7; Readings 1-3 8 | MPH 012-13, EOH 001, 003, 005 EOH 007 | E, E | | E |
|      | • Mid-term Exam I | 1-7; Readings 1-3 8 | MPH 012-13, EOH 001, 003, 005 EOH 007 | E, E | | E |
|      | • Mid-term Exam I | 1-7; Readings 1-3 8 | MPH 012-13, EOH 001, 003, 005 EOH 007 | E, E | | E |

1 See page 2 of the syllabus or the Student Handbook for full competency descriptions.
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<thead>
<tr>
<th>Date</th>
<th>Events</th>
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<tr>
<td>21</td>
<td>• Spring Break</td>
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</table>
| 28   | • Discussion of Reading #6  
• Air Pollution  
| 13   | MPH 012,  
EOH 001,  
EOH 007  
| E    |
|      | April |
| 4    | • Mid-term Exam II  
| 8-13 | MPH 012-13,  
EOH 001  
| E, E |
|      | Readings  
| 4-6  | EOH 001,  
005, 007  
| E, E |
|      | 15     | EOH 003-04  
| E, E |
| 11   | • Discussion of Mid-term II  
• Discussion of Reading #7  
• Water Resources (cont.)  
• Water Pollution  
• Reading Assignment #7 posted  
| 15   | MPH 013,  
EOH 001,  
EOH 004,  
EOH 005  
| E, E |
|      | 16     | E  
| E    |
| 18   | • Research Papers Due  
• Discussion of Reading #8  
• Solid and Hazardous Wastes  
| 17   | EOH 001,  
EOH 005  
| E    |
| 25   | • Student Presentations  
| 8    | EOH 004  
| E    |
| May  | |
| 2    | • Student Presentations  
|      | EOH 004  
| E    |
| 9    | • Final Exam 6:00 p.m. - 8:00 p.m.  
| 15-17| MPH 012-13,  
EOH 001,  
003, 005  
| R, R |
|      | Readings  
| 7-8  | R  
| R    |

### Important Dates

**January 15**  
Waitlist final run. After this date, the waitlist will no longer automatically place waitlisted students into open spots in classes. Adding a class on the final day of registration (August 28) is first-come, first-serve.

**January 15**  
Last day to PAY In-Person without late penalties.

**January 18**  
Last day to REGISTER and Pay Online without late penalty.

**January 18**  
Martin Luther King Jr. Day Recess.

**January 19**  
Classes and late registration begin. Late registration fees and late payment fees apply.

**January 25**  
Last day to add courses, switch sections, change courses, change from audit to credit.  
Final day to drop or withdraw and receive a 100 percent refund (modular classes must be withdrawn the Friday before the class begins to receive 100% refund.) No refunds will be given after this day except for total withdrawal from all classes.

**February 15**  
Washington’s Birthday Recess.

**February 26**  
Final day to completely withdraw from all classes and receive a 50 percent refund. Only 50% refunds will be processed at this time. ALL CLASSES MUST BE DROPPED. No other refunds after this day.

**March 12**  
Mid-semester.
March 18  Final day for undergraduates to apply for Fall 2015 graduation and be included in the Commencement Program booklet. Late undergraduate applicants, please check with the Registrar’s Office. *Graduate students should check with the Graduate College for deadlines: graduatecollege.unlv.edu.

March 21-26  Spring Break Recess.

April 1  Final day to drop or withdraw from classes without a refund or change from credit to audit, except for modular classes. This action can be executed online. Drops and withdrawals will not be allowed after this date even with instructor approval.

April 4  Mid-Semester instruction begins.

May 2-7  Study week. Classes are scheduled but major written exams are not given.

May 7  Mid-semester instruction ends.

May 7  Instruction ends.

May 9-14  Final examinations.

May 14  Spring semester ends.

May 7  Spring Commencement Ceremony 9 a.m. and 2 p.m. at Thomas & Mack Center. Check commencement.unlv.edu for more information.

May 17  Spring grades are due at the Office of the Registrar, by 4:00 pm.

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**ADDITIONAL COURSE INFORMATION**

**Spring 2016**

**Academic Misconduct** – Academic integrity is a legitimate concern for every member of the campus community; all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility and professionalism. By choosing to join the UNLV community, students accept the expectations of the Student Academic Misconduct Policy and are encouraged when faced with choices to always take the ethical path. Students enrolling in UNLV assume the obligation to conduct themselves in a manner compatible with UNLV’s function as an educational institution.

An example of academic misconduct is plagiarism. Plagiarism is using the words or ideas of another, from the Internet or any source, without proper citation of the sources. See the *Student Academic Misconduct Policy* (approved December 9, 2005) located at: [http://studentconduct.unlv.edu/misconduct/policy.html](http://studentconduct.unlv.edu/misconduct/policy.html).

**Copyright** – The University requires all members of the University Community to familiarize themselves with and to follow copyright and fair use requirements. You are individually and solely responsible for violations of copyright and fair use laws. The university will neither protect nor defend you nor assume any responsibility for employee or student violations of fair use laws. Violations of copyright laws could subject you to federal and state civil penalties and criminal liability, as well as disciplinary action under University policies. Additional information can be found at: [http://www.unlv.edu/provost/copyright](http://www.unlv.edu/provost/copyright).

**Library Use** - Students may consult ([https://www.library.unlv.edu/consultation](https://www.library.unlv.edu/consultation)) with a librarian on research needs. For this class, the subject librarian is Xan Goodman. UNLV Libraries provides resources to support students’ access to information. Discovery, access, and use of information are vital skills for academic work and for successful post-college life. Access library resources and ask questions at [https://www.library.unlv.edu/](https://www.library.unlv.edu/).
**Disability Resource Center (DRC)** – The UNLV Disability Resource Center (SSC-A 143, [http://drc.unlv.edu/](http://drc.unlv.edu/), 702-895-0866) provides resources for students with disabilities. If you feel that you have a disability, please make an appointment with a Disabilities Specialist at the DRC to discuss what options may be available to you.

If you are registered with the UNLV Disability Resource Center, bring your Academic Accommodation Plan from the DRC to the instructor during office hours so that you may work together to develop strategies for implementing the accommodations to meet both your needs and the requirements of the course. Any information you provide is private and will be treated as such. To maintain the confidentiality of your request, please do not approach the instructor in front of others to discuss your accommodation needs.

**Religious Holidays Policy** – Any student missing class quizzes, examinations, or any other class or lab work because of observance of religious holidays shall be given an opportunity during that semester to make up missed work. The make-up will apply to the religious holiday absence only. It shall be the responsibility of the student to notify the instructor no later than the end of the first two weeks of classes, **February 1, 2016**, of his or her intention to participate in religious holidays which do not fall on state holidays or periods of class recess. For additional information, please visit: [http://catalog.unlv.edu/content.php?catoid=6&navoid=531](http://catalog.unlv.edu/content.php?catoid=6&navoid=531).

**Incomplete Grades** - The grade of I – Incomplete – can be granted when a student has satisfactorily completed three-fourths of course work for that semester/session but for reason(s) beyond the student’s control, and acceptable to the instructor, cannot complete the last part of the course, and the instructor believes that the student can finish the course without repeating it. The incomplete work must be made up before the end of the following regular semester **for undergraduate courses**. **Graduate students receiving “I” grades in 500-, 600-, or 700-level courses have up to one calendar year to complete the work, at the discretion of the instructor.** If course requirements are not completed within the time indicated, a grade of F will be recorded and the GPA will be adjusted accordingly. Students who are fulfilling an Incomplete do not register for the course but make individual arrangements with the instructor who assigned the I grade.

**Tutoring** – The Academic Success Center (ASC) provides tutoring and academic assistance for all UNLV students taking UNLV courses. Students are encouraged to stop by the ASC to learn more about subjects offered, tutoring times and other academic resources. The ASC is located across from the Student Services Complex (SSC). Students may learn more about tutoring services by calling 702-895-3177 or visiting the tutoring web site at: [http://academicsuccess.unlv.edu/tutoring/](http://academicsuccess.unlv.edu/tutoring/).

**UNLV Writing Center** – One-on-one or small group assistance with writing is available free of charge to UNLV students at the Writing Center, located in CDC-3-301. Although walk-in consultations are sometimes available, students with appointments will receive priority assistance. Appointments may be made in person or by calling 702-895-3908. The student’s Rebel ID Card, a copy of the assignment (if possible), and two copies of any writing to be reviewed are requested for the consultation. More information can be found at: [http://writingcenter.unlv.edu/](http://writingcenter.unlv.edu/)

**Rebelmail** – By policy, faculty and staff should e-mail students’ Rebelmail accounts only. Rebelmail is UNLV’s official e-mail system for students. It is one of the primary ways students receive official university communication such as information about deadlines, major campus events, and announcements. All UNLV students receive a Rebelmail account after they have been admitted to the university. Students’ e-mail prefixes are listed on class rosters. The suffix is always @unlv.nevada.edu. **Emailing within WebCampus is acceptable.**
**Final Examinations** – The University requires that final exams given at the end of a course occur at the time and on the day specified in the final exam schedule. See the schedule at: [http://www.unlv.edu/registrar/calendars](http://www.unlv.edu/registrar/calendars).

**Attendance and Courtesy:**
Private conversations during lecture disturb nearby students and undermine full class participation. I encourage you to participate in classroom activities by directing your comments and questions to your instructor.

Cell phones, pagers, and other electronic equipment MUST be off or on silence mode during class. Texting or using cell phones is not permitted while class is in session.

I do not keep regular attendance records; however, I will note who attends class and participates in the group discussion. Since questions for exams will be drawn more from the material that I cover in class than solely from the readings, it would be wise for those students who wish to do well in the course to attend every class.

Revised 1/6/16