PubH 6101-01  
Environmental Health Spring, 2016

Credits: 2  
Meeting Days: MW  
Meeting Time: 6:00 – 9:00 PM  
Meeting Place: Mayo 1145  
Instructor: W. A. Toscano  
Office Address: Mayo Building, Rm 1165  
Office Phone: 612-859-2120  
Fax: 612-626-4837  
E-mail: tosca001@umn.edu  
Office Hours: By Appointment

I. Course Description  
Principles of environmental health relating to macro- and microenvironments and to products consumed or used by people.

II. Course Prerequisites  
None

III. Course Goals and Objectives

After completing this course, you will be able to

☐ Describe the action of the environment on human health;
☐ Identify potential environmental hazards;
☐ Distinguish between hazards and risks; and identify healthy environments.
☐ Describe the direct and indirect human, ecological and safety effects of major environmental and occupational agents,

☐ Describe genomic, physiological and psychosocial factors affecting health outcomes following exposure to environments,

☐ Describe federal and state regulatory programs, guidelines and authorities that control environmental health issues,

☐ Specify current risk assessment methods, specify approaches for assessing, preventing and controlling environmental hazards that pose risks to human health and safety,

☐ Explain general mechanisms of toxicity in eliciting a human health effect after exposure to environments,

☐ Discuss various risk management and risk communication approaches in relation to issues of environmental justice and equity,

☐ Develop a testable model of environmental insult

IV. Methods of Instruction and Work Expectations

Lecture, discussions, in-class participation. Work expectations, read assignments or citations before class. Watch videos

V. Course Text and Readings

Readings will be distributed via the Moodle site. No Required Text.

There will be 4 exercises. You will work in groups, make a presentation, and hand in a group report. Each member of the group will make an oral presentation in class.
## VI. Course Lectures and Activities Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Assignment</th>
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</thead>
<tbody>
<tr>
<td>March 21</td>
<td>Introduction, Environment and Disease</td>
<td>Moodle site; Exposure and Disease Paper</td>
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<tr>
<td>March 23</td>
<td>Environmental Genomics I, Cancer</td>
<td>Public Health Genetics: An Emerging Interdisciplinary Field for the Post-Genomic Era</td>
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<tr>
<td>March 28</td>
<td>Environmental Genomics Epigenomics, DoHaD</td>
<td>Marsit, Influence of environmental exposure on human epigenetic regulation; History of DoHaD</td>
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<tr>
<td>March 30</td>
<td>Science and Methods of Environmental Health; Health Risk Assessment; Lifetime Risk Assessment; risk of injury</td>
<td>Omenn, Assessment of human cancer risk: challenges for alternative approaches. Risk Exercise</td>
</tr>
<tr>
<td>April 4</td>
<td>Air, Water, Food, Infectious Diseases</td>
<td>Lecture notes</td>
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<tr>
<td>April 6</td>
<td>Urban Eco Systems; Housing, roads Environmental Justice</td>
<td>Glasow et al. Megacities and Large Urban Agglomerations in the Coastal Zone: Interactions Between Atmosphere, Land, and Marine Ecosystems</td>
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<tr>
<td>April 11</td>
<td>Greening the Community</td>
<td>In Class Exercise</td>
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<tr>
<td>April 13</td>
<td>Community Assessment</td>
<td>Out of Class Assignment and Field exercise</td>
</tr>
<tr>
<td>April 18</td>
<td>POPs Pesticides, is your Home Safe?</td>
<td>Evaluation of the Association between Persistent Organic Pollutants (POPs) and Diabetes in Epidemiological Studies: A National Toxicology Program Workshop Review</td>
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<tr>
<td>April 20</td>
<td>POPs Plastics; Global Climate change</td>
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1 **Assigned Readings Posted on the Moodle Site**
VII. Evaluation and Grading

1. Exercises in class: Class Exercises (80), Homework (10), Total = 90%

2. Quizzes: 10%

Scale: A = 92 - 100; A- = 88 - 91.5; B+ = 84 - 87.5; B = 80 - 83.5; B- = 76 - 79.; C+ = 72 - 78.; C = 68 - 71.; C- = 64 - 67.5; D+ = 60 - 63.5; D = 56 - 59.5; D- = 52 - 55.5; F = 51.5

Students taking the course S/N require a grade of C or above to pass the course.

Percentages are based on total performance on assignments. Extra credit projects will not be accepted to improve a grade. *The curve may be adjusted depending on the overall performance of the class.*

**Course Evaluation**

Beginning in fall 2008, the SPH will collect student course evaluations electronically using a software system called CoursEval: [www.sph.umn.edu/courseval](http://www.sph.umn.edu/courseval). The system will send email notifications to students when they can access and complete their course evaluations. Students who complete their course evaluations promptly will be able to access their final grades just as soon as the faculty member renders the grade in SPHGrades: [www.sph.umn.edu/grades](http://www.sph.umn.edu/grades). All students will have access to their final grades through OneStop two weeks after the last day of the semester regardless of whether they completed their course evaluation or not. Student feedback on course content and faculty teaching skills are an important means for improving our work. Please take the time to complete a course evaluation for each of the courses for which you are registered.

**Incomplete Contracts**

A grade of incomplete “I” shall be assigned at the discretion of the instructor when, due to extraordinary circumstances (e.g., documented illness or hospitalization, death in family, etc.), the student was prevented from completing the work of the course on time. The assignment of an “I” requires that a contract be initiated and completed by the student before the last official day of class, and signed by both the student and instructor. If an incomplete is deemed appropriate by the instructor, the student in consultation with the instructor, will specify the time and manner in which the student will complete course requirements. Extension for completion of the work will not exceed one year (or earlier if designated by the student’s college). For more information and to initiate an incomplete contract, students should go to SPHGrades at: [www.sph.umn.edu/grades](http://www.sph.umn.edu/grades).

**University of Minnesota Uniform Grading and Transcript Policy** - A link to the policy can be found at [onestop.umn.edu](http://onestop.umn.edu).
VIII. Other Course Information and Policies

Grade Option Change (if applicable)

For full-semester courses, students may change their grade option, if applicable, through the second week of the semester. Grade option change deadlines for other terms (i.e. summer and half-semester courses) can be found at onestop.umn.edu.

Course Withdrawal

Students should refer to the Refund and Drop/Add Deadlines for the particular term at onestop.umn.edu for information and deadlines for withdrawing from a course. As a courtesy, students should notify their instructor and, if applicable, advisor of their intent to withdraw.

Students wishing to withdraw from a course after the noted final deadline for a particular term must contact the School of Public Health Office of Admissions and Student Resources at sph-ssc@umn.edu for further information.

Student Conduct Code

The University seeks an environment that promotes academic achievement and integrity, that is protective of free inquiry, and that serves the educational mission of the University. Similarly, the University seeks a community that is free from violence, threats, and intimidation; that is respectful of the rights, opportunities, and welfare of students, faculty, staff, and guests of the University; and that does not threaten the physical or mental health or safety of members of the University community.

As a student at the University you are expected adhere to Board of Regents Policy: Student Conduct Code. To review the Student Conduct Code, please see: http://regents.umn.edu/sites/default/files/policies/Student_Conduct_Code.pdf.

Note that the conduct code specifically addresses disruptive classroom conduct, which means "engaging in behavior that substantially or repeatedly interrupts either the instructor's ability to teach or student learning. The classroom extends to any setting where a student is engaged in work toward academic credit or satisfaction of program-based requirements or related activities."

Use of Personal Electronic Devices in the Classroom

Using personal electronic devices in the classroom setting can hinder instruction and learning, not only for the student using the device but also for other students in the class. To this end, the University establishes the right of each faculty member to determine if and how personal electronic devices are allowed to be used in the classroom. For complete information, please reference: http://policy.umn.edu/Policies/Education/Education/STUDENTRESP.html.

Scholastic Dishonesty

You are expected to do your own academic work and cite sources as necessary. Failing to do so is scholastic dishonesty. Scholastic dishonesty means plagiarizing; cheating on assignments or examinations; engaging in unauthorized collaboration on academic work;
taking, acquiring, or using test materials without faculty permission; submitting false or incomplete records of academic achievement; acting alone or in cooperation with another to falsify records or to obtain dishonestly grades, honors, awards, or professional endorsement; altering, forging, or misusing a University academic record; or fabricating or falsifying data, research procedures, or data analysis. (Student Conduct Code: http://regents.umn.edu/sites/default/files/policies/Student_Conduct_Code.pdf) If it is determined that a student has cheated, he or she may be given an "F" or an "N" for the course, and may face additional sanctions from the University. For additional information, please see: http://policy.umn.edu/Policies/Education/Education/INSTRUCTORRESP.html.

The Office for Student Conduct and Academic Integrity has compiled a useful list of Frequently Asked Questions pertaining to scholastic dishonesty: http://www1.umn.edu/oscai/integrity/student/index.html. If you have additional questions, please clarify with your instructor for the course. Your instructor can respond to your specific questions regarding what would constitute scholastic dishonesty in the context of a particular class-e.g., whether collaboration on assignments is permitted, requirements and methods for citing sources, if electronic aids are permitted or prohibited during an exam.

**Makeup Work for Legitimate Absences**
Students will not be penalized for absence during the semester due to unavoidable or legitimate circumstances. Such circumstances include verified illness, participation in intercollegiate athletic events, subpoenas, jury duty, military service, bereavement, and religious observances. Such circumstances do not include voting in local, state, or national elections. For complete information, please see: http://policy.umn.edu/Policies/Education/Education/MAKEUPWORK.html.

**Appropriate Student Use of Class Notes and Course Materials**
Taking notes is a means of recording information but more importantly of personally absorbing and integrating the educational experience. However, broadly disseminating class notes beyond the classroom community or accepting compensation for taking and distributing classroom notes undermines instructor interests in their intellectual work product while not substantially furthering instructor and student interests in effective learning. Such actions violate shared norms and standards of the academic community. For additional information, please see: http://policy.umn.edu/Policies/Education/Education/STUDENTRESP.html.

**Sexual Harassment**
"Sexual harassment" means unwelcome sexual advances, requests for sexual favors, and/or other verbal or physical conduct of a sexual nature. Such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment in any University activity or program. Such behavior is not acceptable in the University setting. For additional information, please consult Board of Regents Policy: http://regents.umn.edu/sites/default/files/policies/SexHarassment.pdf

**Equity, Diversity, Equal Opportunity, and Affirmative Action**
The University will provide equal access to and opportunity in its programs and facilities, without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or

Disability Accommodations
The University of Minnesota is committed to providing equitable access to learning opportunities for all students. Disability Services (DS) is the campus office that collaborates with students who have disabilities to provide and/or arrange reasonable accommodations.

If you have, or think you may have, a disability (e.g., mental health, attentional, learning, chronic health, sensory, or physical), please contact DS at 612-626-1333 to arrange a confidential discussion regarding equitable access and reasonable accommodations.

If you are registered with DS and have a current letter requesting reasonable accommodations, please contact your instructor as early in the semester as possible to discuss how the accommodations will be applied in the course.

For more information, please see the DS website, https://diversity.umn.edu/disability/.

Mental Health and Stress Management
As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance and may reduce your ability to participate in daily activities. University of Minnesota services are available to assist you. You can learn more about the broad range of confidential mental health services available on campus via the Student Mental Health Website: http://www.mentalhealth.umn.edu.

Academic Freedom and Responsibility: for courses that do not involve students in research
Academic freedom is a cornerstone of the University. Within the scope and content of the course as defined by the instructor, it includes the freedom to discuss relevant matters in the classroom. Along with this freedom comes responsibility. Students are encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth. Students are free to take reasoned exception to the views offered in any course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled.*

Reports of concerns about academic freedom are taken seriously, and there are individuals and offices available for help. Contact the instructor, the Department Chair, your adviser, the associate dean of the college, or the Vice Provost for Faculty and Academic Affairs in the Office of the Provost. [Customize with names and contact information as appropriate for the course/college/campus.]

* Language adapted from the American Association of University Professors "Joint Statement on Rights and Freedoms of Students".

Template update 9/2013