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PUBH 591.54: Indoor Environmental Quality Management

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PUBH 591

Indoor Environmental Quality Management

3 credit hours

Fall 2022

Instructor:

Tony Ward, Ph.D.

Professor and Chair

School of Public and Community Health Sciences (<http://health.umt.edu/publichealth/>)

College of Health

Course Format:

Online, Moodle through UM Online

Office Hours:

In-person by appointment.

Dr. Ward is typically available via e-mail 8:00 am - 6:00 pm Monday through Friday.

Instructor Contact Information:

Email: tony.ward@umontana.edu

Skaggs Building Room 176 (office)

Phone: 406-243-4092

Course Description:

This course will focus on environmental problems and issues associated with our homes, office buildings, schools, and other non-industrial indoor environments. This course will also explore the nature and cause of indoor environmental health problems, and the measures used to investigate and control them.

Required Text:

Indoor Environmental Quality by Thad Godish, Lewis Publishers, ISBN# 1-56670-402-2

Additional readings will be posted as necessary.

Council on Education for Public Health (CEPH) Master's Foundational Competencies:

This class will address the following **Foundational Competencies**:

4. Interpret results of data analysis for public health research, policy or practice.
6. Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and societal levels.
7. Assess population needs, assets and capacities that affect communities' health.
19. Communicate audience-appropriate public health content, both in writing and through oral presentation.

This class will address the following **Master’s Generalist Concentration-Specific Competencies**:

2. Identify the common demographic characteristics of rural or frontier areas and their implications for provision of public health services.
3. Explain the challenges associated with provision of environmental health services in the context of rural or frontier areas.

Course Format:

This course will be delivered online with support from UMOonline. Readings and assignments designed to develop applied skills will form the basis for review and discussion during the weekly class postings on the discussion board. A self-study format (e.g., reading assignments and web links) will be used to present key points. **The emphasis will be on discussion and application of the course material in weekly discussion threads.**

UMOnline Tutorials:

UMOnline has numerous online tools to support students in using Moodle. Please see the following website: <http://umonline.umt.edu/studentsupport/default.php>.

Course Grading:

Students will be graded on the following:

1. Class participation (40%)
2. Student led discussions (10%) - 5% for chapter-based questions, 5% for current event questions.
3. Research paper, 10%.
4. Midterm exam, 20%.
5. Final exam, 20%.

This course will use the traditional letter grade option. Therefore, final grades will consist of the following: A, B, C, D, and F. Grades will be calculated based on the standard formula (90-100% = A; 80-89% = B; 70-79% = C; 60-69% = D; and 59% and below = F).

Class participation (40%)

- Each week, the instructor will post up to two discussion questions. And, as listed in the “PUBH 591 Discussion Leader Schedule Fall 2022.doc”, student discussion leaders will be assigned each week.
- You are expected to log into the class each week day, as the class is arranged to allow for students to participate in the Week’s Discussion Topics throughout the week.
- Students are responsible for responding two times for each discussion question (5 pts per discussion). Your primary response (3 pts) is due by Wednesday evening of each week. A second response (2 pts) is to be made to another discussion thread in your forum, and is due Friday evening. **Comments to fellow students throughout the discussion week are not only highly encouraged, but expected.**

Primary Response Assessment – 3 points per discussion forum

	No	Yes
Response is posted by Wednesday PM	0	1
Response thoughtfully reflects on that week’s readings	0	1
Response adequately answers the question	0	1

Student-led discussions (10%: 5% each for the chapter and current event questions)

- Student-led discussion questions must be posted by Monday at noon, with summary paragraphs (highlighting the major points from their weeklong discussion) posted by Monday morning the following week.
- Discussion leaders are responsible for keeping the discussion going all week, including responding to each student in the discussion.

Research paper (10%)

As part of this class, students will be responsible for developing and submitting a research paper based on an indoor environmental quality issue. This report will be due on Monday November 21, 2022 (by 10pm).

Exams (Midterm: 20%, Final: 20%)

Two exams (a midterm and a final) will be given during the semester, and will be administered through the Moodle system. The exams will be “open book” with a combination of multiple choice, short answer, and essay questions. The exams are timed and must be completed once the student has begun.

Moodle Course Procedures and Expectations:

Moodle will be used in this class throughout the semester. While class content, expectations and assessment will (most likely) not change dramatically, the instructor may make mid-course revisions especially in response to student feedback.

Announcements and Syllabus Changes:

Class announcements will be posted by the instructor weekly. Moodle system administrators will sometimes post announcements about the Moodle system. This syllabus is subject to change by the instructor, with any changes to be communicated during the weekly announcements.

Communication:

Communication will take place using e-mail, discussion boards, and the virtual Moodle classroom. **Please check your UM email account frequently, as this is how I will communicate directly with you.** Discussion boards are appropriate for questions or discussions that would normally occur in the classroom. Please remember that the discussion board is public and your classmates can read what you post there.

Office of Disability Equity / Accessibility:

The Office for Disability Equity (ODE) is the campus resource for disability-related information. They provide consultation, training, and academic services to advance accessibility and inclusion by taking an intersectional approach to disability. For more information, please visit their website: <https://www.umt.edu/disability/>.

Student Code of Conduct:

All students must practice academic honesty. The University of Montana Student Code of Conduct (<https://bit.ly/3SMNkft>) embodies and promotes honesty, integrity, accountability, and duties associated with citizenship as a student in our community at the University of Montana. This Code exists to protect the interests of the community and dignity of its members, and to challenge those behaviors which are not in accordance with our policies. This Code describes expected standards of behavior for all students, including academic conduct and general conduct, and it outlines students' rights, responsibilities, and the campus processes for adjudicating alleged violations.

Course Schedule:

	Topic(s)	Assigned Reading
Week 1, 8/29-9/2	Ch. 1. Indoor Environments.	p. 1-25.
Week 2, 9/5-9/9 9/5 Holiday: Labor Day (no class)	Ch. 1. Indoor Environments.	p. 1-25.
Week 3, 9/12-9/16	Ch. 2. Inorganic contaminants: asbestos/radon/lead.	p. 27-65.
Week 4, 9/19-9/23	Ch. 3. Combustion-generated contaminants.	p. 67-94.
Week 5, 9/26-9/30	Ch. 4. Organic contaminants.	p. 95-141.
Week 6, 10/3-10/7	Ch. 5. Biological contaminants.	p. 143-165.
Week 7, 10/10-10/14	Ch. 6. Biological contaminants - mold.	p. 167-194.
Week 8, 10/17-10/21	Ch. 7. Problem buildings.	p. 195-225.
Week 9, 10/24-10/28	Midterm.	
Week 10, 10/31-11/4	Ch. 8. Investigating indoor environment problems.	p. 227-262.
Week 11, 11/7-11/11 11/8 Holiday: Election Day (no class) 11/11 Holiday: Veterans Day (no class)	Ch. 9. Measurement of indoor contaminants.	p. 263-300.
Week 12, 11/14-11/18	Ch. 10. Source control.	p. 301-332.
Week 13, 11/21-11/25 Thanksgiving Break: 11/23-11/25	Ch. 11. Ventilation. Research paper due by Monday 11/21.	p. 333-367.
Week 14, 11/28-12/2	Ch. 12. Air cleaning.	p. 369-404.
Week 15, 12/5-12/9	Ch. 13. Regulatory and nonregulatory initiatives.	p. 405-439.
Week 16, 12/12-12/16	Finals. Exam open 12/13-12/14.	