

ENTO/EHSC 4060/6060 - ECOTOXICOLOGY

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Required Course Material:

Text: *Fundamentals of Ecotoxicology* Second Edition, MC Newman and MA Unger (eds), 2003 Lewis Publishers, Boca Raton, FL.

Course Outline:

Week 1: Introduction to ecotoxicology
Week 2: Environmental fate of contaminants, quiz 1
Week 3: Major classes of contaminants, quiz 2
Week 4: Bioaccumulation of contaminants, test 1, paper discussion 1
Week 5: Factors affecting bioaccumulation of contaminants, quiz 3
Week 6: Bioaccumulation from food and trophic transfer, quiz 4
Week 7: Molecular effects of contaminants and biomarkers, quiz 5
Week 8: Effects of contaminants on cells, tissues and organs, test 2, paper discussion 2
Week 9: Sublethal effects of contaminants, quiz 6
Week 10: Acute and chronic lethal effects of contaminants, quiz 7
Week 11: Effects of contaminants on populations, quiz 8
Week 12: Effects of contaminants on communities and ecosystems, test 3, paper discussion 3
Week 13: Landscape and global effects of contaminants, quiz 9
Week 14: Risk assessment of contaminants, quiz 10
Week 15: Risk assessments (continued), paper discussion 4
Final Exam

Course Requirements:

Tests: 3 tests + final exam

Quizzes: 10 quizzes on lecture materials and discussion papers when applicable.

Research Paper: A 5-10 page paper on an ecotoxicological topic. Students will be given a list of topics to choose from or they may choose a topic of personal interest

Class Attendance and Participation: Students are expected to attend class and participate in the discussion of lecture topics.

6060 students: All students receiving graduate credit will be required to lead paper discussions on current ecotoxicological studies related to the course throughout the semester. In addition, the students will be asked to answer additional questions on exams which will focus on applied aspects of the lecture topics.

Grading Policy: Grades will be determined from total points accumulated from tests (45%), quizzes (20%), final exam (15%), research paper (15%) and class attendance/participation (5%).

Attendance Policy: Everyone is expected to attend class unless notifying the instructor that they will not be able to attend for specified reasons. A total of five unexcused absences will be allowed before points for participation will be revoked.

Make-Up Test or Exam Policy: Students must inform the instructor prior to the test date of any conflict in schedule that will prohibit them from taking the test or exam unless an emergency situation arises. In case of an emergency, a written explanation must be provided. An alternate date and time will be agreed upon between the student and instructor. Failure to take a test or exam without notification will result in no points obtained by the student.