Tentative Syllabus for Environmental Toxicology, ENV 484
Class 5:30 pm - 7:17 pm MW Dodge Hall Of Engineering 237

Instructor: Linda Schweitzer, Ph.D., Associate Professor, Chemistry & Env. Health
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Textbook: Environmental Toxicology. David A. Wright and Pamela Welbourn.
Final Exam: Friday Dec. 8; 7-10 PM.
Labor Day: no class (Monday, Sept. 4)
Thanksgiving holiday: does not affect our schedule. Class will be held the night before.

Grading:
Homework and in-class participation 15%
Exams 20% each (x 3) except final which is 25%
Option: drop lowest exam score (I-III).
No make-up exams; if you miss one, it counts as the drop. You may only reschedule the final exam in extreme circumstances or if negotiated up-front.

Topics and tentative schedule
Principles of Toxicology
Intro to Dose-response
Intro to Toxicokinetics (ADME) - Absorption, distribution, metabolism, excretion
Biotransformations – Phase I metabolism
Exam I on above topics – Sept. 25?

Biotransformations – Phase II metabolism
Toxicokinetic modeling
Bioavailability, bioaccumulation
Introduction to Toxicodynamics:
  - mutagenesis, teratogenesis, carcinogenesis
  - developmental toxicology
Exam II – Oct. 18?

Hepatotoxicity (the liver)
Renal toxicity (kidneys)
Blood and Immune System toxicology
Respiratory system/Inhalation Tox
Nervous System
Reproductive, endocrine
Exam III – Nov. 15?

Low-dose toxicology and complex mixtures
Metals (inorganic chemicals)
Radiation
Complex Issues
Final Exam – Dec. 8
**Other resources**

This NIH website, “Tox Tutor” is a great tutorial for the whole course:
Disclaimer: I may take exception to some of the answers on their quizzes. We can discuss them.

Questions on exams will **not** be taken directly from the textbook, but will cover only material presented in class. The textbook is supplementary to the course just like any other resource on the same topic such as the Tox Tutor. The best way to learn a subject is to cross reference with other related materials. For any one topic, you can search the topic on the internet. Try http://www.google.com

Recommended reference books:
1. Casarett & Doull’s Toxicology – The Basic Science of Poisons
2. Intro. to Biochemical Toxicology (Hodgson & Levi)

**Policy on Academic Misconduct**
The University's regulations that relate to academic misconduct will be fully enforced. Any student suspected of cheating will be referred to the Academic Conduct Committee. Students found guilty of academic misconduct may face suspension or permanent dismissal.