

Syllabus: EHT 530, Principles of Toxicology

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| Catalog number and title: | EHT 530, Principles of Toxicology |
| Term and Call number: | Fall |
| Locations and Meeting Times: | Auditorium and Sturman Conference Room, Wadsworth Center, ESP, Albany; 4:15 – 5:35 pm Tuesdays and Thursdays |
| Instructor: | Dr. Laurence S. Kaminsky, Departmental Chair |
| Teaching Assistants: | None |
| Instructors Contact Information: | e-mail: kaminsky@wadsworth.org 518-474-4920 (phone) 518-486-1505 (fax) Office Location: E275, Wadsworth Center, Empire State Plaza, Albany |
| Instructors Office Hours: | Variable, by appointment |

Course Description, overview and objectives: A detailed list of course topics are provided below. The overall objective is to provide an introductory overview of the field of toxicology covering the basic principles, target organ toxicity, the toxicity of a limited group of compounds, and an introduction to modern molecular toxicology.

The principal learning objective is for the students to gain familiarity with basic building blocks of toxicology, to enable them to subsequently build a more detailed knowledge of those particular aspects of toxicology that interest them.

Course prerequisites: Two years of undergraduate chemistry, one year of undergraduate biology, or consent of instructor.

Grading scheme: The course is graded A-E. The final grade is comprised of 60% from three in-class closed book examinations, and 40% from a final examination.

Course requirement: A required textbook. Attendance at all lectures is preferred but is not essential.

PRINCIPLES OF TOXICOLOGY – 2008

Lectures at 4:15 pm to 5:35 pm in the Auditorium on Tuesdays and the Large Conference Room on Thursdays

| DATE | LECTURE TITLE | CASSARETT & DOULL'S TOXICOLOGY | LECTURER |
|---|---|--|---|
| August 26 (Tu) 28 (Th) | Principles of Toxicology Mechanisms of Toxicity | Chapter 2 Chapter 3 | Kaminsky Ding |
| September 2 (Tu) 4 (Th) 9 (Tu) 11 (Th) 16 (Tu) 18 (Th) 23 (Tu) 25 (Th) | ADME + Toxicokinetics Biotransformation of Xenobiotics Neurotoxicology Neurotoxicology EXAMINATION Toxicology of the Skin Immunotoxicology Toxicology of the Kidney | Chapter 5, 7 Chapter 6 Chapter 16 Chapter 16 Chapter 19 Chapter 12 Chapter 14 | Gu Gu Seegal Seegal Herron Silkworth Silkworth |
| October 2 (Th) 7 (Tu) 14 (Tu) 16 (Th) 21 (Tu) 23 (Th) 28 (Tu) 30 (Th) | Metals Reproductive Toxicology & Teratology Reproductive Toxicology & Teratology Cardiovascular Toxicology Toxicology of the Liver EXAMINATION Chemical Carcinogenesis & Genetic Toxicology Chemical Carcinogenesis & Genetic Toxicology | Chapter 23 Chapter 20 Chapter 20 Chapter 18 Chapter 13 Chapter 8,9 Chapter 8,9 | Parsons Mayes Mayes Herron Kaminsky Welsh Welsh |
| November 4 (Tu) 6 (Th) 11 (Tu) 13 (Th) 18 (Tu) 20 (Th) 25 (Tu) | Analytical/Forensic Toxicology Analytical/Forensic Toxicology Molecular Toxicology & Toxicogenomics Molecular Toxicology & Toxicogenomics Toxicology of the Intestine Toxicology of the Lung EXAMINATION | Chapter 31 Chapter 31 Chapter 15 | Spink Spink Ding Ding Zhang Spivack |
| December 2 (Tu) 4 (Th) | Risk Assessment Toxicological & Analytical Evaluation of Complex Environmental Chemical Mixtures: Application to Environmental Disasters | Chapter 4 | Kim Kaminsky |

