

## TOX 501—Principles of Toxicology

Tuesday, Thursday 2:10-3:30 p.m.

TBA

Fall 2009

Lecture	Date	Topic	Instructor
1	Aug 25	Introduction, Nature of Toxicology	Murphy
2	Aug 27	(Absorption, Distribution, Excretion, Toxicokinetics)	Martin
3	Sept 1		Martin
4	Sept 3	Biotransformation, Phase I	Coats
5	Sept 8	Biotransformation, Phase II	Hendrich
6	Sept 10	Dose-Response Relationships	Hendrich
7	Sept 15	Interactions in Toxicology	Coats
8	Sept 17	Risk Assessment	Wolt
9	Sept 22	Mutagenesis	Hendrich
10	Sept 24	Oxidative Stress	Hendrich
11	Sept 29	Carcinogenesis	Birt
12	Oct 1	Carcinogenesis	Birt
13	Oct 6	Cellular Injury by Toxicants	Ackermann
14	Oct 8	Carcinogenesis	Birt
15	Oct 13	Reproductive Toxicology	Hsu
16	Oct 15	Nanotoxicology	Koziel
17	Oct 20	Organ Systems Toxicology	Osweiler
18	Oct 22	Organ Systems Toxicology	Osweiler
19	Oct 27	Organ Systems Toxicology	Osweiler
20	Oct 29	Proteomics in Toxicology	Nilsen-Hamilton
21	Nov 3	Neurotoxicology	An. Kanthasamy
22	Nov 5	Toxic Effects of Metals	An. Kanthasamy
23	Nov 10	Nutrition Toxicology	Hendrich
24	Nov 12	Toxicology of Drugs of Abuse	Ar. Kanthasamy
25	Nov 17	Food Toxicology	Murphy
26	Nov 19	Forensic Toxicology	Grodnitzky

### Thanksgiving Break

27	Dec 1	Immunotoxicology	Roth
28	Dec 3	Ecotoxicology - terrestrial & atmospheric	Coats
29	Dec 8	Aquatic toxicology	Palic
30	Dec 10	Preclinical trials in toxicology	Ensley

Recommended Text: Klaassen, C.D. 2007. Casarett and Doull's Toxicology: The Basic Science of Poisons. Seventh Ed. McGraw-Hill. RA 1215.C37 2007 On reserve in the Parks Library and Vet Med Library.

Quizzes: No makeup quiz without permission of instructor involved.

20 points per lecture session: administered by each instructor

Take-home, open book and due within one week (quizzes may be turned in: electronically to the lecturer's email, at the beginning of class, left in 2102 Molecular Biology with Linda, or 2312 Food Sciences Bldg in Dr. Murphy's mailbox)

***Instructors will return graded quizzes to you one week later. Grades will be posted on Web CT.***

2009 grading scale for TOX 501 will be:

<u>% points</u>	<u>Grade</u>
≥ 92	A
89-91	A-
85-88	B+
80-84	B
79-81	B-
75-78	C+
69-74	C
65-68	C-
60-64	D+

Extra credit points (earned by doing complete course & instructor evaluation) will be added to quiz total and % recalculated.

Instructor	Department	Office	Phone	Email@iastate.edu
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Jeff Wolt	Agronomy/Seed Sci	164 Seed Sci	4-6899	jdwolt@