

## TOX 501—Principles of Toxicology

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

115 Science II

Fall 2008

Lecture	Date	Topic	Instructor
1	Aug 26	Introduction, Nature of Toxicology	Murphy
2	Aug 28	(Absorption, Distribution, Excretion, Toxicokinetics)	Martin
3	Sept 2		Martin
4	Sept 4	Biotransformation, Phase I	Coats
5	Sept 9	Biotransformation, Phase II	Hendrich
6	Sept 11	Dose-Response Relationships	Hendrich
7	Sept 16	Interactions in Toxicology	Coats
8	Sept 18	Risk Assessment	Wolt
9	Sept 23	Mutagenesis	Hendrich
10	Sept 25	Oxidative Stress	Hendrich
11	Sept 30	Carcinogenesis	Birt
12	Oct 2	Carcinogenesis	Birt
13	Oct 7	Carcinogenesis	Birt
14	Oct 9	Cellular Injury by Toxicants	Ackermann
15	Oct 14	Organ Systems Toxicology	Osweiler
16	Oct 16	Organ Systems Toxicology	Osweiler
17	Oct 21	Organ Systems Toxicology	Osweiler
18	Oct 23	Reproductive Toxicology	Hsu
19	Oct 28	Nanotoxicology	tba
20	Oct 30	Proteomics in Toxicology	Nilsen-Hamilton
21	Nov 4	Neurotoxicology	An. Kanthasamy
22	Nov 6	Toxic Effects of Metals	An. Kanthasamy
23	Nov 11	Nutrition Toxicology	Hendrich
24	Nov 13	Toxicology of Drugs of Abuse	Ar. Kanthasamy
25	Nov 18	Food Toxicology	Murphy
26	Nov 20	Forensic Toxicology	Grodnitzky
Thanksgiving Break			
27	Dec 2	Immunotoxicology	Roth
28	Dec 4	Ecotoxicology - terrestrial & atmospheric	Coats
29	Dec 9	Aquatic toxicology	Palic
30	Dec 11	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 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 as well.**

2008 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
Mark Ackermann	Vet Pathology	2738 Vet Med	4-3647	mackerma@
Diane Birt	FSHN	215 MacKay	4-9873	dbirt@
Joel Coats	Entomology	116 Insectory	4-4776	jcoats@
Steve Ensley	Vet Diagn /Prod An	1710 Vet Med	4-2783	sensley@
Justin Grodnitzky	Iowa DCI Crime Lab		515-725-1500	grodnitz@dps.state.ia.us
Suzanne Hendrich	FSHN	224 MacKay	4-4272	shendric@
Walter Hsu	Biomedical Sci	2066 Vet Med	4-6864	whsu
Anumantha Kanthasamy	Biomedical Sci	2062 Vet Med	4-2516	akanthas@
Arthi Kanthasamy	Biomedical Sci	1030 Vet Med	4-7238	arthik@
Richard Martin	Biomedical Sci	2008 Vet Med	4-2470	rjmartin@
Patricia Murphy	FSHN	2577 Food Sci	4-1970	pmurphy@
Marit Nilsen-Hamilton	BBMB	3206 Mol Bio	4-9996	marit@
Gary Osweiler	Vet Diagn /Prod An	1575B Vet Med	4-1950	osweiler@
Dusan Palic	Biomedical Sci	2036 Vet Med	4-2571	dulep@
James Roth	Vet Mic/Prv Med	2156 Vet Med	4-8459	jaroth@
Jeff Wolt	Agronomy/Seed Sci	164 Seed Sci	4-6899	jdwolt@