Advanced Toxicology

TOXC 707/PHCO 707/ENVR 707

Spring Semester 2016

Course Director	**Dr. James A. Swenberg**
Time	**MWF 9:05 - 9:55 AM**
Location	**2304 McGavran-Greenberg**
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Date	Topic	Lecturer
JANUARY	**Overview (Course Director: Dr. James Swenberg)**	
11 (M)	Course Overview (brief introduction)	James Swenberg
	Clinical Pathology (Team Leader: Dr. Greg Travlos)	
11 (M)	Hematology in Toxicity Studies	Greg Travlos
13 (W)	Coagulation Evaluations in Toxicity Studies	Greg Travlos
15 (F)	Clinical Chemistry	Greg Travlos
18 (M)	Martin Luther King, Jr. Day: No Class	No Class
20 (W)	Case Studies	Greg Travlos
	Regulatory Toxicology (Team Leader: James Swenberg)	
22 (F)	Regulatory Toxicology (Class canceled due to inclement weather)**	James Swenberg
25 (M)	Risk Assessment (Class canceled due to inclement weather)**	James Swenberg
27 (W)	Risk Assessment (classes shown above were covered in this session)	James Swenberg
29 (F)	Risk Assessment and TOX 21	David Reif
FEBRUARY	**Respiratory Toxicology (Team Leader: Dr. Milan Hazucha)**	
1 (M)	Respiratory System: Structure, Function and Mechanisms of Action Exam 1 handed out (covers 8 lectures)	Milan Hazucha
3 (W)	Pulmonary Toxicology Markers	Gary Hatch
5 (F)	Update and Disposition of Gases and Vapors in the Respiratory Tract	Paul Schlosser
8 (M)	Animal Models: Their Utility in the Assessment of Toxic Inhalants Exam 1 due, 9:05 a.m.	Mehdi Hazari for Dan Costa
10 (W)	Pulmonary Toxicology: Deposition, Disposition and Metabolism	Anthony Hickey

FEBRUARY	**Gastrointestinal Toxicology**	
12 (F)	Gastrointestinal Toxicity Overview	Dan Kemp
	Molecular Mechanisms of Radiation Toxicology (Team Leader: Dr. Elaine Zeman)	
~~15 (M)~~	(Class canceled due to inclement weather)**	Elaine Zeman
17 (W)	The Physics, Chemistry and Biochemistry of Radiation Damage to Cells	Elaine Zeman
19 (F)	Radiation Carcinogenesis Exam 2 handed out (covers 9 lectures)	Elaine Zeman
	Renal Toxicology (Team Leader: Dr. James Swenberg)	
22 (M)	The Urinary System as a Target of Toxicity - Part I	Brian Berridge for James Swenberg
24 (W)	The Urinary System as a Target of Toxicity - Part II	Brian Berridge for James Swenberg
~~26 (F)~~	α_{2u} Globulin-Nephropathy (class rescheduled to late March)	James Swenberg
	Radiation Toxicology (con't) (Team Leader: Dr. Elaine Zeman)	
26 (F)	Cytotoxic and Somatic Effects of Radiation	Elaine Zeman
	Endocrine Toxicology (one lecture only)	
29 (M)	Endocrine Disruptors Exam 2 due, 9:05 a.m.	Warren Casey
MARCH	**Hepatic Toxicology (Co-Team Leaders: Dr. David Malarkey and Dr. Paul Watkins)**	
2 (W)	Toxicogenomics of Rodent Liver Cancer	Arun Pandiri
4 (F)	Introduction to Toxicological Pathology of the Liver	David Malarkey
7 (M)	Idiosyncratic Hepatotoxicity	Paul Watkins
9 (W)	Mechanisms of Hepatic Toxicity	Edward Lecluyse
11 (F)	Contemporary Issues in Hepatotoxicity at the U.S. National Toxicology Program Exam 3 will be available on Sakai at 9:55 a.m. (covers 8 lectures)	David Malarkey
***	FYI : SOT annual meeting in New Orleans, Sun 3/13 – Thurs 3/17	
14, 16, 18 (M-F)	Spring Break	No Classes
	Cardiovascular Toxicology (Team Leader: Dr. Brian Berridge)	
21 (M)	Introduction to Cardiovascular Toxicology and Risk Assessment	Brian Berridge
23 (W)	Cardiovascular Toxicology and Risk Assessment (continued) Exam 3 due, 9:05 a.m.	Brian Berridge
25 (F)	Spring Holiday – No Class	No Class

MARCH	**Immunotoxicology (Team Leader: Dr. Robert Luebke)**	
28 (M)	Immune System Overview and Mechanisms of Immunotoxicity	Robert Luebke
30 (W)	Allergic Hypersensitivity	David Lehmann
	Renal Toxicology (con't) (Team Leader: Dr. James Swenberg)	
30 (W)	α_{2u} Globulin-Nephropathy **(class will be held in 2005 MHRC, at 5:05 p.m.)**	James Swenberg
	Immunotoxicology (con't) (Team Leader: Dr. Robert Luebke)	
APRIL 1 (F)	Autoimmunity and Risk Assessment	Robert Luebke
	Neurotoxicology (Team Leader: Dr. Mohanish Deshmukh)	
4 (M)	Introduction to Neurotoxicology **Exam 4 will be available on Sakai at 9:55 a.m. (covers 5 lectures)**	Mohanish Deshmukh
6 (W)	Neurotoxicity of Pesticides	Stephanie Padilla
8 (F)	Metals and Neuropathology	David Dorman
11 (M)	Neurotoxic Toxins **Exam 4 due, 9:05 a.m.**	Robert MacPhail
13 (W)	Solvent Neurotoxicity	William Boyes
	Reproductive Toxicology (Team Leader: Dr. John Rogers)	
15 (F)	Developmental Toxicology I: Principles and Regulatory Aspects	John Rogers
18 (M)	Computational Approaches to Developmental and Reproductive Toxicology	Tom Knudsen
20 (W)	Developmental Toxicology II: Screening, Metabolism and Mechanisms	Sid Hunter
22 (F)	Male Reproductive Toxicology	Gary Klinefelter
25 (M)	Female Reproductive Toxicology **Exam 5 will be available on Sakai at 9:55 a.m. (covers 10 lectures)**	William Farmer
27 (W)	***Course Review*** ***SPECIAL: class meets in Rosenau 253-A, Conference Room**	James Swenberg
MAY 2 (M)	**Exam 5 due at 10:00 AM (email submission)**	

	EXAM SCHEDULE	
Exam 1	Clinical Pathology, Regulatory Toxicology (8)	Out: 2/1/16 In: 2/8/16 (Mon – Mon)
Exam 2	Respiratory, Gastrointestinal & Radiation (8)	Out: 2/19/16 In: 2/29/16 (Fri – Mon)
Exam 3	Renal, Endocrine & Hepatic (8)	Out: Wed 3/11/16 In: 3/23/16 (Mon – Wed)
Exam 4	Cardiovascular, Immunotoxicology & Renal (5)	Out: 4/4/16 In: 4/11/16 (Mon – Mon)
Exam 5	Neurotoxicology, Reproductive (10)	Out: 4/25/16 In: 5/2/16* (Mon – Mon)

Instructions for Exam 5*

1. The responses for the last exam, and the evaluation forms for the last group of lecturers, are due by email, no later than 10:00 a.m., on Monday, May 2th.

2. The signed Exam Cover Sheet should be given to the exam administrator by 10 a.m. on May 2nd. You also have the option of delivering the evaluation forms to the administrator, in person. Please feel free to stop by the administrator's office prior to 10 a.m., on May 2nd, to drop off the signed Exam Cover Sheet.

Spring 2016 University Holidays/Breaks (No classes)
Jan. 18 (Mon) – Martin Luther King, Jr. Day
Mar. 14-18 (Mon-Fri) – Spring Break
Mar. 25 (Fri) – Spring Holiday

****Important Note: If class is not held due to inclement weather, you are still responsible for the lecture notes associated with a specific lecture. The course director will use alternate methods of communication, such as webinars and adjusted class schedules, to ensure the information is communicated to the students.**