

Ecotoxicology and Risk Assessment Syllabus -- Spring 2014

VME 6934 Section 19 AB

Meeting time: Thursday 1:00-3:30 CEHT
conference room, Building 471

Grades: 10% class participation

35% Mid-term Exam

35% Final Exam

10% Risk Assessment Project

10% Debate

Book: Michael Newman and Michael Unger, Fundamentals of Exotoxicology, second edition

course Instructors: Dr. Nancy Denslow and Dr. Viet Dang

Date	Topic	Chapter	Instructor
Thursday Jan 9 1:00 -3:30	Lect. 1. Introduction to Ecotox and Environmental Fate of Contaminants , WikiPharma	Chp 1,2	Nancy Denslow, CEHT
	Journal Presentation		Nancy
Thursday, Jan 16, 1:00-3:30	Lecture 2. Presentation-ToxNet., Ecotox		Hannah Norton
Thursday Jan 23, 1:00-3:30	Lecture 3. Biochemical effects: Uptake, biotransformation, detoxification, bioaccumulation	Chp 3, 4	Viet Dang
	Journal Presentation		
Thursday Jan 30, 1:00-3:30	Lecture 4. Risk Assessment Application		Pat Cline
	Project in Risk Assessment		
Thursday Feb 6, 1:00-3:30	Lecture 5. Endocrine Active Agents in the Environment		Nancy Denslow
	Journal Presentation		
Thursday Feb 13, 1:00-3:30	Lecture 6. Cellular, Tissue and Organ changes -- Adverse Outcome Pathways	Chp 7	Nancy Denslow, CEHT
	Journal Presentation		

Thursday Feb 20, 1:00- 3:30	Lecture 7. Molecular Effects of Contaminants/ Acute and chronic	Chp 6, 8	Nancy Denslow, CEHT
Thursday Feb 27, 1:00-3:30	Midterm Exam		
Mar 3-7	Spring Break		
Thursday Mar 13, 1:00-3:30	Lecture 8. General Toxicology, binding curves, statistics	Chp 9	Keith Tolson
	Journal Presentation		
Thursday Mar 20, 1:00-3:30	Lecture 9. Practical Histopathology		Andy Kane, EPI
	Journal Presentation		
Thursday March 27, 1:00-3:30	Debate: TBA		class
Thursday April 3, 1:00-3:30	Lecture 10. Effects on Populations		Dr. Peter Frederick
	Journal Presentation		
Thursday April 10, 1:00-3:30	Lecture 11. Epigenetics		Tom Yang, Biochemistry
	Project presentations		class
Thursday April 17, 1:00-3:30	Lecture 12. Overview of Risk Assessment: Aquatic Toxicity Methods		Isabelle Johnson, Golder
	Lecture 13. Toxicity of Nanomaterials		Candice
Thursday April 24	Final exam		