

COURSE SYLLABUS
CHEMICAL TOXICOLOGY – PHRM(VPHY, EHSC) 8930
Spring Semester, 2007
Course Coordinator – Dr. Jim Bruckner

Class Meets: Tuesday and Thursday, 3:30 – 5 PM, College of Pharmacy (COP), Room 362

Prerequisites: Biochemistry, Physiology, Introductory Toxicology – PHRM(VPHY, EHSC) 6910 or POD

Course Objective: To enable the student to gain an in-depth knowledge of the sources and consequences of chemical contamination of environmental media (i.e., air, soil, water and food).

Course Content:

- Toxicology of several major classes of agricultural and industrial chemicals
- Sources of chemical contaminants
- Fate of chemicals in the environment and in target species
- Preferred method(s) of chemical analysis
- Contamination control procedures
- Pertinent federal/state regulations

Instructors: Dr. Marsha Black, Room 128 EHS, 542-0998, mblack@uga.edu
Dr. Jim Bruckner, Room 356 COP, 542-5405, bruckner@rx.uga.edu
Dr. Cham Dallas, Room 353 COP, 542-5412, cdallas@rx.uga.edu
Dr. Jeff Fisher, Room 152 EHS, 542-1001, jwfisher@uga.edu
Dr. Randy Manning, GA DNR EPD, 369-6376, randy_manning@dnr.state.ga.us
Dr. Luke Naehrer, Room 150 EHS, 542-4104, lnaehrer@uga.edu
Dr. Ron Riley, USDA Athens, 546-3377, rriley@saa.ars.usda.gov
Dr. Bill Vencill, 4105 Plant Sci., 542-3117, wvencill@uga.edu
Dr. Phil Williams, SPH Dean's Office, 542-0939, pwilliam@uga.edu

Office Hours: By appointment arranged by E-Mail or phone

Textbook: *Principles of Toxicology: Environmental and Industrial Applications*, Williams, P.L. et al. (eds.), 2nd Ed., John Wiley and Sons, Inc., New York (2000)

Plus Handouts and Assigned Readings

Topical Outline & Lecture Schedule: Provided separately

Grading Policy: Student performance of three (3) examinations will be used as the basis for determining the course grade. There will be a total of 100 points possible on each examination. The examinations will cover material discussed in class and assigned readings. The First and Second Examinations will each account for 25% of the course grade, while the Final Examination will account for 50% of the course grade. The Final will be comprehensive (i.e., include material covered during the entire semester). Information presented after the Second Examination will be weighted more heavily.

LECTURE SCHEDULE – Spring 2007
Toxicology of Agricultural and Industrial Chemicals in the Environment
PHRM/VPHY/EHSC 8930
College of Pharmacy, Room 362
Tuesday and Thursday, 3:30 – 5 PM
Dr. James Bruckner – Course Coordinator

DATE	LECTURE #	LECTURE TITLE	INSTRUCTOR
Jan. 9	1	Introduction, Air Pollutants	Naeher ✓
Jan. 11	2	Air Pollutants	Naeher
Jan. 16	3	Radiation/Nuclear	Dallas ✓
Jan. 18	4	Radiation/Nuclear	Dallas
Jan. 23	5	Mycotoxins	Riley ✓
Jan. 25	6	Mycotoxins	Riley
Jan. 30	7	Mycotoxins	Riley
Feb. 1	8	Mycotoxins	Riley
Feb. 6	9	Insecticides	Vencill ✓
Feb. 8	10	Insecticides	Vencill
Feb. 13	11	Herbicides	Vencill
Feb. 15	12	Herbicides	Vencill
Feb. 20	13	Herbicides	Vencill
Feb. 22		FIRST EXAMINATION (25%)	
Feb. 27	14	Pharmaceuticals & Personal Care Products	Black ✓
March 1	15	Iodide	Fisher ✓
March 6	16	Chemical Exposure Limits	Williams ✓
March 8	17	Heavy Metals	Williams
March 13		SPRING BREAK	
March 15		SPRING BREAK	
March 20	18	Introduction to Risk Assessment	Manning ✓
March 22	19	Non-Cancer Risk Assessment	Manning
March 27	20	Cancer Risk Assessment	Manning
March 29	21	Cancer Risk Assessment	Manning
April 3	22	Ecological Risk Assessment	Manning
April 5	23	SECOND EXAMINATION (25%)	
April 10	24	Hydrocarbon Solvents	Bruckner ✓
April 12	25	Hydrocarbons/Halocarbons	Bruckner
April 17	26	Halocarbons	Bruckner
April 19	27	Halocarbon Risk Assessment & Regulation	Bruckner
April 24	28	Halogenated Polycyclic Hydrocarbons	Bruckner
April 26	29	Global Warming	Naeher
May 2 – 8		FINAL EXAMINATION (50%)	

Grades will be assigned on the following scale:

94 – 100	A
90 – 93	A-
87 – 89	B+
84 – 86	B
80 – 83	B-
77 – 79	C+
74 – 76	C
70 – 73	C-
60 – 69	D
< 60	F

If you become aware that you must miss an examination, inform the course coordinator and make an alternative arrangement. If you become ill just before/during an examination, inform the coordinator and obtain a note of explanation from your physician.

Attendance Policy: All students are expected to attend each class session. If you must miss a class, inform the instructor for that particular day. A student who misses class is responsible for obtaining assignments, notes, etc. from other class members.

Cell Phone Policy: No live cell phones will be allowed in the classroom during class or an exam. Cell phones may be confiscated by the instructor.

UGA Honor Code: The UGA Student Honor Code, as contained in a publication titled A Culture of Honesty located at www.uga.edu/ovpi, states that “I will be academically honest in all my academic work and will not tolerate academic dishonesty of others”.

Academic Honesty: All academic work must meet the standards contained in A Culture of Honesty. Each student is responsible for informing themselves about these standards before performing any academic work. Providing or receiving unauthorized assistance during an examination is a violation of the Culture of Honesty Code. All violations will be referred to the Office of the Vice President for Instruction.

* The course syllabus and lecture schedule are general plans for the course; deviations announced to the class by an instructor may be necessary during the semester.