

INTRODUCTORY TOXICOLOGY
Fall Semester, 2007
PHRM (VPHY, EHSC) 6910
Course Coordinator – Dr. James Bruckner

Tuesday and Thursday, 3:30-4:55 PM
College of Pharmacy Room 362

DATE	LECTURE #	TOPIC	INSTRUCTOR
8/16	1	Class Overview, History/Scope of Toxicology	Dallas Bruckner
8/21	2	Dose-Response Relationships	Dallas
8/23	3	Classification of Toxic Agents	Dallas
8/28	4	Absorption of Toxicants	Bruckner
8/30	5	Distribution of Toxicants	Bruckner
9/4	6	Elimination of Toxicants	Bruckner
9/6	7	Metabolism of Toxicants	Bruckner
9/11	8	Metabolism of Toxicants	Bruckner
9/13	9	Factors Influencing Toxicity	Bruckner
9/18	10	Cancer as a Disease	Bunce
9/20	11	Cancer as a Disease	Bunce
9/25	12	Stages of Carcinogenesis	Bunce
9/27	13	Stages of Carcinogenesis	Bunce
10/2	14	Factors Influencing Toxicity	Bruckner
10/4	15	Factors Influencing Toxicity	Bruckner
10/9	16	Factors Influencing Toxicity	Bruckner
10/11		FIRST EXAMINATION	
10/16	17	Chemical Carcinogenesis	Bunce
10/18	18	Chemical Carcinogenesis	Bunce
10/23	19	Molecular Basis of Toxicant Action	Riley
10/25	20	Molecular Basis of Toxicant Action	Riley

DATE	LECTURE #	TOPIC	INSTRUCTOR
10/30	21	Molecular Basis of Toxicant Action	Riley
11/1	22	Molecular Basis of Toxicant Action	Riley
11/6	23	Molecular Basis of Toxicant Action	Riley
11/8	24	Molecular Basis of Toxicant Action	Riley
11/13		SECOND EXAMINATION	
11/15	25	Risk Assessment/Statues, Regulations, Data Collection	Riley
11/20	26	Exposure Assessment	Manning
11/22	No Class	THANKSGIVING HOLIDAY	
11/27	27	Toxicity Assessment	Manning
11/29	28	Risk Characterization	Manning
12/4	29	Risk Characterization	Manning
12/6	30	Risk Characterization	Manning
12/13	31	FINAL EXAMINATION (3:30 – 6:30 PM)	

COURSE SYLLABUS
INTRODUCTORY TOXICOLOGY – PHRM (VPHY, ENSC) 6910
Fall Semester, 2007
Course Coordinator: Dr. Bruckner

Class Meets: Tuesday and Thursday, 3:30 – 4:55 PM, College of Pharmacy (COP), Room 362

Prerequisites: General Courses in Biochemistry and Physiology

Course Objective: To enable the student to gain an understanding of basic principles, as well as contemporary areas of focus in toxicology and carcinogenesis.

Course Content:

- Expressions of toxic potency and dose-response relationships
- Principles of toxicology and safety evaluation
- Pharmacokinetics and metabolism of chemicals
- Factors influencing toxicity
- Carcinogenesis/mutagenesis
- Basic mechanisms of cellular injury
- Exposure and risk assessment
- Governmental regulations

Instructors: Dr. Jim Bruckner, Room 356 COP, 542-5405, bruckner@rx.uga.edu
Dr. Becky Bunce, Room 358 COP, 542-5407, rbunce@rx.uga.edu
Dr. Cham Dallas, Room 353 COP, 542-5412, cdallas@rx.uga.edu
Dr. Randy Manning, GA DNR EPD, 369-6376, randy_manning@dnr.state.ga.us
Dr. Ron Riley, USDA Athens, 546-3377, rriley@saa.ars.usda.gov

Office Hours: Make an appointment by E-mail with a specific professor

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

Handouts, 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 on the Final. Grades will be assigned on the following scale. No minus (-) grades will be given.

100 – 89.5	A
89.4 – 86.5	B+
86.4 – 79.5	B
79.4 – 76.5	C+
76.4 – 69.5	C
< 69.5	D

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 entitled 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 the instructor may be necessary.