

FUNDAMENTALS OF TOXICOLOGY (PGS 384K)
Fall 2016 [3 Credit Hours]

Course Coordinator: Dr. Casey Wright, cww@austin.utexas.edu, BME 3.510C, 232-8331. This class meets on **Tuesdays and Thursdays from 9:30-11:00 am in BME 3.111** unless otherwise noted.

Course Objective: This course in *Fundamentals of Toxicology* will focus on an organ-based approach to Toxicology, namely understanding the factors that predispose certain tissues to toxicity following exposure to specific classes of natural and synthetic chemical compounds. Successful completion of this course will prepare graduate students with a foundation of knowledge that will strengthen their ability for critical thinking and performance of laboratory research in mechanistic toxicology.

Course Textbook: The lectures of this course closely follow the corresponding chapter in "Casarett & Doull's Toxicology: The Basic Science of Poisons", 8th edition.

Course Communication: Announcements pertaining to this class will be sent to your registered UT email and/or posted on **Canvas®** (see below). Please check your emails and visit the **Canvas®** site regularly, as you will be responsible for this information.

The *official Canvas® web site* for this course can be accessed either through UTDirect or *via* canvas.utexas.edu. Either access point is UTEID-protected, and provides you links to the courses in which you are currently enrolled. Visit this site for additional resources associated with this course (power point presentation, the discussion board, contacting faculty by Email, electronic versions of suggested and **required** readings and hyperlinks).

The website will also be used for official, course-related announcements and for the exchange of class information and questions via the discussion board. Be aware that any messages posted to the discussion board are available to all enrolled students and faculty.

You may also contact faculty members directly via **Email**.

Contact information for participating faculty:

*Dr. Heidi Bojes	Heidi.Bojes@dshs.state.tx.us
*Dr. John DiGiovanni	john.digiovanni@austin.utexas.edu
Dr. Andrea Gore	andrea.gore@austin.utexas.edu
*Dr. Dawit Kidane	dawit.kidane@austin.utexas.edu
Dr. Edward "Ted" Mills	tedmills@austin.utexas.edu
*Dr. Tracie Phillips	tracie.phillips@tceq.texas.gov
Dr. John Richburg	john.richburg@austin.utexas.edu
*Dr. Carla Van Den Berg	carla.vandenberg@austin.utexas.edu
*Dr. Karen Vasquez	Karen.vasquez@austin.utexas.edu
*Dr. John F. Villanacci	jvilla@swbell.net

***Please note**, faculty participants denoted with asterisks have offices located off campus and will require advanced notice to schedule meetings.

Grading: There will be three in-class exams (90 minutes each). Each exam format may vary depending upon the lecturing faculty; but routinely will be in the format of short essay answers. Each student will need to plan his/her efforts accordingly to complete the exam within the allotted time. There will be **no remediation** in this course to improve one's score or grade in the class. Therefore students need to be prepared to commit the necessary time and effort for successful completion of this class. Students encountering difficulties in this course should contact

the course director *prior to* taking an exam or completing the course to determine if other alternatives may be available.

The distribution of the points for each instructor on these exams could include points for outside assignments as well as in-class exam questions. These contributions will be weighted exactly to the contribution of each individual instructor's teaching participation. The course is not curved, and there will be no arbitrary adjustments or rounding off of grades. For example, an 89 will be assigned a B+ and not adjusted to an A-. The "weight" of each exam and grading scale is as follows:

First exam	38%
Second exam	38%
Third exam	24%
	Total: 100%

A ⁺ = 97-100 %	C ⁺ = 76-79 %
A = 93-96%	C = 73-76 %
A ⁻ = 90-92%	C ⁻ = 70-72%
B ⁺ = 87-89%	D ⁺ = 67-69 %
B = 83-86%	D = 63-66 %
B ⁻ = 80-82 %	D ⁻ = 60-62 %
	F = ≤ 59 %

*Students in the Pharmacology/Toxicology graduate program need to earn a grade no lower than a "B-" in this course to remain in "good standing" in the graduate program.

Required assignments (e.g., out of class readings etc.) and due dates will be determined by the individual instructors. Each instructor will grade you on the quality of your class participation, out-side assignments as well as in class exams. Pay attention to deadlines/due dates: assignments turned in late will result in penalized scores.

Academic Dishonesty: Plagiarism or academic dishonesty will not be tolerated. In addition, a sense of responsible professional behavior is a critical component of professional education, and high standards of ethical conduct are expected of graduate students. Any student suspected of dishonesty or unprofessional behavior will be reported to the Dean of the College of Pharmacy and to the Dean of Students, as per University regulations. Students are expected to have read and understood the current issue of the General Information Catalog published by the Registrar's Office for information about procedures and about what constitutes scholastic dishonesty. Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including failure of the course involved and dismissal from the college and/or the University.

Students with Disabilities: The University of Texas at Austin provides upon request appropriate academic accommodations for qualified students with disabilities. All University rules concerning accommodations must be followed, including the student arranging for special accommodations *prior to each examination*. In the absence of such *prearrangement*, the student will be assumed that the student is not requesting special accommodations for that exam, and will be expected to take the exam with the rest of the class at the regularly scheduled exam time. For more information, contact the Office of the Dean of Students at 471-6259, 471-4641 TTY.

Campus Carry: Students should familiarize themselves with the information provided by the University regarding the implementation of "Campus Carry" legislation. You will find an information sheet specifically for students (as well as sheets for parents, visitors, faculty, and staff) at <http://campuscarry.utexas.edu/info-sheets>.

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Tuesdays & Thursdays, 9:30 – 11:00 am; BME 3.111

SECTION I: Introductory Principles

Aug. 25 (Thurs)	Dr. Wright	Introduction to the Basics of Toxicology
Aug. 30 (Tues)	Dr. Wright	Introduction to the Basics of Toxicology
Sept. 1 (Thurs)	Dr. DiGiovanni	Biotransformation of Toxicants
Sept. 6 (Tues)	Dr. DiGiovanni	Biotransformation of Toxicants

SECTION II: Target Organ Toxicity I

Sept. 8 (Thurs)	Dr. Richburg	Male Reproductive Toxicology
Sept. 13 (Tues)	Dr. Richburg	Female Reproductive Toxicology
Sept. 15 (Thurs)	Dr. Richburg	Hepatic Toxicology
Sept. 20 (Tues)	Dr. Richburg	Hepatic Toxicology
Sept. 22 (Thurs)	Dr. Wright	Renal Toxicology
Sept 27 (Tues)	Dr. Wright	Renal Toxicology
Sept 29 (Thurs)	EXAM I	

SECTION II: Target Organ Toxicity II

Oct. 4 (Tues)	Dr. Gore	Endocrine Disruptors
Oct. 6 (Thurs)	Dr. Gore	Endocrine Disruptors
Oct. 11 (Tues)	Dr. Van den Berg	Lung Toxicology
Oct. 13 (Thurs)	Dr. Van den Berg	Lung Toxicology
Oct. 18 (Tues)	Dr. Vasquez	Genetic Toxicology
Oct. 20 (Thurs)	Dr. Vasquez	Genetic Toxicology
Oct. 25 (Tues)	Dr. Mills	Neurotoxicology
Oct. 27 (Thurs)	Dr. Mills	Neurotoxicology
Nov. 1 (Tues)	Dr. Kidane	Blood & Immunotoxicology
Nov. 3 (Thurs)	Dr. Kidane	Blood & Immunotoxicology
Nov. 8 (Tues)	EXAM II	

SECTION III: Regulatory Toxicology and Risk Assessment

Nov. 10 (Thurs)	Dr. Bojes	Principles of Exposure Science
Nov. 15 (Tues)	Dr. Bojes	Principles of Exposure Science
Nov. 17 (Thurs)	Dr. Villanacci	Hazardous Materials
Nov. 22 (Tues)	Dr. Villanacci	Hazardous Materials
Nov. 24 (Thurs)		<i>THANKSGIVING</i>
Nov. 29 (Tues)	Dr. Phillips	Risk Assessment
Dec. 1 (Thurs)	Dr. Phillips	Risk Assessment
Dec. 8 (Thurs)	EXAM III	

Definitions and Agreement Regarding Academic Dishonesty

Source Wikipedia (<http://en.wikipedia.org/wiki/Plagiarism>) accessed Jan 9, 2008

“**Academic dishonesty** or **academic misconduct** is any type of [cheating](#) that occurs in relation to a formal [academic](#) exercise. It can include:

- [Plagiarism](#)—The adoption or reproduction of ideas or words or statements of another person without due acknowledgment.
- [Fabrication](#)—The falsification of data, information, or [citations](#) in any formal academic exercise.
- [Deception](#)—Providing false information to an instructor concerning a formal academic exercise—*e.g.*, giving a false excuse for missing a deadline or falsely claiming to have submitted work.
- [Cheating](#)—Any attempt to give or obtain assistance in a formal academic exercise (like an examination) without due acknowledgment.
- [Sabotage](#)—Acting to prevent others from completing their work. This includes cutting pages out of library books or willfully disrupting the experiments of others.”

“**Plagiarism** is the practice of claiming or implying original authorship of (or incorporating material from) someone else's written or creative work, in whole or in part, into one's own without adequate acknowledgement. Unlike cases of [forgery](#), in which the *authenticity* of the writing, document, or some other kind of object itself is in question, plagiarism is concerned with the issue of false *attribution*. Plagiarism can also occur unconsciously.”

“Within [academia](#), plagiarism by students, professors, or researchers is considered [academic dishonesty](#) or [academic fraud](#). Some individuals caught plagiarizing in academic or journalistic contexts claim that they plagiarized unintentionally, by failing to include [quotations](#) or give the appropriate [citation](#). While plagiarism in scholarship and journalism has a centuries-old history, the development of the [Internet](#), where articles appear as electronic text, has made the physical act of copying the work of others much easier, simply by copying and pasting text from one web page to another.”

“Plagiarism is different from [copyright infringement](#). While both terms may apply to a particular act, they emphasize different aspects of the transgression. Copyright infringement is a violation of the rights of the copyright holder, when material is used without the copyright holder's consent. On the other hand, plagiarism is concerned with the unearned increment to the plagiarizing author's [reputation](#) that is achieved through false claims of authorship.”

Note: Intentional or unintentional, the consequences and penalties invoked if a student shows academic dishonesty in this class will be upheld. Penalties will include a zero score for the exam and/or removal from the University or Graduate Program.

I have read and understand the course syllabus for *Fundamentals of Toxicology*. I understand the definition and potential consequences of academic dishonesty.

Student Signature

Date