

BIOL 6301-Basic Principles of Toxicology
CRN# 11182
Fall, 2023

M/W 9:00-10:20 am
UGLC 340

Dr. Marc Cox 747-5429; mbcox@utep.edu
Office Hours: Biosciences 3.128, open door policy on Monday and Wednesday

COVID-19 Precaution Statement: Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, please let me know as soon as possible, so that we can work on appropriate accommodations. If you have tested positive for COVID-19, you are encouraged to report your results to covidaction@utep.edu, so that the Dean of Students Office can provide you with support and help with communication with your professors. The Student Health Center is equipped to provide COVID-19 testing.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area. For more information about the current rates, testing, and vaccinations, please visit epstrong.org.

Course Objectives: This course is designed so that you will have an understanding of the following learning outcomes at the completion of the course.

1. Have a broad understanding of basic toxicological principles.
2. Understand how those basic principles apply to current issues of toxicological concern.
3. Understand from where and how to obtain the necessary information to make informed decision about environmental pollutants and the risks they pose to human health.

Textbook: None Required. Handouts will be provided for all topics covered.

Online Platform/Blackboard:

Accessing Course Content on Blackboard: All videos and course material will be located in Blackboard. Log into My UTEP.edu and click on the Blackboard link to access the online course for BIOL 6301. Students may access recorded lectures/handouts as they are made available by the course instructor.

Course Activities/Assignments:

Emerging Topics: You will each select a current topic of emerging concern and give a 30-minute presentation to the class covering possible sources, likely routes of exposure, distribution and metabolism within the body, and possible pathological outcomes associated with exposure to your selected contaminant.

Home Products Discussions: Students will be required to select an item from their home or any other space in which they spend significant amounts of time, research the item for information on possible toxicants present within that item and provide a 5-minute presentation for the class.

Grading: The emerging topics presentation is worth 25% of your final grade. The Home Products presentations are worth 25% of your final grade. Each examination is worth 25% of your final grade. Grading scale: A=90-100%; B=80-89%; C=70-79%; D=60-69%; F is <60%.

Make-up Policy: If you miss an exam or assignment you will be expected to make-up the missed assignment and/or exam no later than 1 week (7 days) from the date you return to class. Failure to do so will result in a grade of 0% for that assignment and/or exam

Absence and Drop Policy: It is your responsibility to attend class regularly. If you have a serious illness or a legitimate excuse (includes military personnel called to active duty or training) for being out-of-town, make arrangements with me before you leave. **November 3rd** is the last day students may drop with an automatic "W".

Academic Integrity Policy: UTEP's policies regarding academic integrity apply in this course. Information on this policy can be found at <http://academics.utep.edu/Default.aspx?tabid=23785>

Disability Statement: If you have a disability and need accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

Course Schedule

8/28	M	Introduction to Basic Principles of Toxicology	
8/30	W	Toxins: How to Minimize Exposure	
9/4	M	NO CLASS – Labor Day Holiday	
9/6	W	History and Principles of Toxicology	
9/11	M	Mechanisms of Toxicity	
9/13	W	Dose Response Assessment	
9/18	M	Xenobiotic Absorption, Distribution, Biotransformation, and Metabolism	
9/20	W	Home Products Discussion	Bring a product from home and be prepared to discuss
9/25	M	Carcinogenesis	Emerging Topics Title Due
9/27	W	Environmental Health Risk Assessment	
10/2	M	TAKE HOME EXAM	
10/4	W	TAKE HOME EXAM	
10/9	M	TAKE HOME EXAM	Take Home Exam Due BY 5:00 PM
10/11	W	Endocrine Disrupting Chemicals	
10/16	M	The Disappearing Male Documentary	
10/18	W	Home Products Discussion	Bring a product from home and be prepared to discuss
10/23	M	Emerging Topics	
10/25	W	Emerging Topics	
10/30	M	Emerging Topics	
11/1	W	Emerging Topics	
11/6	M	EXAM #2	
11/8	W	Emerging Topics	
11/13	M	Emerging Topics	
11/15	W	Emerging Topics	
11/20	M	Emerging Topics	
11/22	W	Emerging Topics	
11/27	M	Emerging Topics	
11/29	W	Emerging Topics	
12/4	M	Home Products Discussion	Bring a product from home and be prepared to discuss
12/6	W	IN CLASS FINAL EXAM	