VME6603 Advanced Toxicology

SEMESTER: FALL 2024
CREDIT HOURS: 3 CREDIT HOUR
GRADING SYSTEM: A-E GRADING

Course Coordinator

Name: Chris Martyniuk, PhD
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Email: cmartyn@ufl.edu
Office Hours: By appointment, any time.

Course Description. This course will survey emerging concepts and areas of research in toxicology. The objectives will be to understand mechanisms of toxicity and toxicosis in multiple organ systems. The intent is to achieve high level competency in issues involving toxicants.

Student Learning Outcomes

1. Be able to discuss emergent issues across different disciplines of toxicology.
2. Critically evaluate literature on emerging toxicants.
3. Understand mechanisms of toxicity and toxicosis in multiple organ systems.
4. Be able to reason toxicity assessments from government, industry, and societal perspectives.

Course Outline & schedule: Topics are subjected to rearranging based on schedules for the Fall.

Course Schedule

Class meetings will be held in person at the Center for Environmental and Human Toxicology and/or in ZOOM. Classes will consist of lectures, followed by group project, class discussions, hands on modules, or case study in toxicology. Some topics below maybe be reorganized based on speaker availability.

Date and Time	*Topic/Module/Unit*	*Faculty*	SLO # Above	*Contact Hours*
August 26 at 1-4 p.m.	Intro and Career Development	Martyniuk	1-4	3.0
Sept 2 no class	No class, Labor Day	Martyniuk	1-4	3.0
Sept. 9 at 1-4 p.m.	Introduction to Toxicology	Martyniuk	1-4	3.0
Sept. 16 at 1-4 p.m.	Oxidative Stress	Martyniuk	1-4	3.0
Sept. 23 at 1-4 p.m.	Metal Toxicity	Martyniuk	1-4	3.0
Sept. 30 at 1-4 p.m.	Ecotoxicology	TBA	1-4	3.0
Oct. 7 at 1-4 p.m.	Functional Genomics	TBA	1-4	3.0
Oct. 14 at 1-4 p.m.	Neurotoxicology	Martyniuk	1-4	3.0
Oct. 21 at 1-4 p.m.	Risk Assessment	TBA	1-4	3.0

Date and Time	*Topic/Module/Unit*	*Faculty*	SLO # Above	*Contact Hours*
Oct. 28 at 1-4 p.m.	Adverse Outcome Pathways	Martyniuk	1-4	3.0
Nov. 4 at 1-4 p.m.	Analytical Chemistry	TBA	1-4	3.0
Nov. 11 at 1-4 p.m.	Biological Toxins	Brammer-Robbins	1-4	3.0
Nov. 18 at 1-4 p.m.	Project	No class	1-4	3.0
Nov. 25 at 1-4 p.m.	Thanksgiving Break	Martyniuk	1-4	3.0
Dec. 2 at 1-4 p.m.	Tox21 / Pharmaceutical toxicology	Martyniuk	1-4	3.0
Dec. 9 Time to TBA	Final Exam	Martyniuk	1-4	3.0

Required Textbooks and/or Course Materials

None

Recommended Textbooks and/or Course Materials

Recommended Reference texts: Peterson, ME and Talcott, PA (2006) *Small Animal Toxicology*. Elsevier Saunders, St. Louis, MO.

Additional Resources/ equipment: Class note packet

Methods of Evaluation

Grades will be calculated based on the following:

Participation	10 %
15 Presentation	10%
Group Project	30%
Final Exam	50 %
Total	100 %

Grading Scheme

Course grades will be assigned based on the following grading scheme.

A	100.00 – 92.00
A-	91.99 – 87.00
B+	86.99 – 82.00
B	81.99 – 77.00
B-	76.99 – 72.00
C+	71.99 – 68.00
C	67.99 – 64.00
C-	63.99 – 60.00
D+	59.99 – 57.00
D	56.99 – 54.00
D-	53.99 – 50.00
E	49.99 – 0

Course Policies

Course specific grading/attendance policies can go here.

Curriculum Policies

DVM curriculum policies are consistently held and reinforced across all DVM courses. Please visit the DVM webpage and review the curriculum policies listed within the Online Student Handbook.

Students with Accommodations

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the Disability Resource Center by visiting www.disability.ufl.edu/students/get-started. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester. **Students in UF Health Sciences programs should be mindful that unique course accommodations may not be applicable in a clinical, fieldwork or practicum setting. Thus, planning a semester in advance with the DRC Health Sciences Learning Specialist, Lisa Diekow ldiekow@ufsa.ufl.edu , is highly encouraged.**

The DRC is located on the main UF campus. ASA (Office for Academic and Student Affairs) works closely with the DRC to ensure student accommodations are met in the classroom and during exams. Melissa Cox in ASA assists in coordinating exams and meeting recommended disability-related requirements for students with accommodations (melissacox@ufl.edu).

Course and Instructor Evaluation

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available on the GatorEvals Webpage. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via the Online Platform. Summaries of course evaluation results are available to students at the GatorEvals Public Results Webpage.

Appendix A: Faculty Lecturers

Faculty Name
Email:

Faculty Name
Email:

Appendix B: Other Information

Could be assignment details, rubrics, etc.