

PET 5936 section 02B1 Pharmacology for Exercise Science - Spring 2018  
 Meets Mondays, periods 4-6 (10:40 PM to 1:40) 1094 Weimer Hall  
 (directly across from FLG)  
 Instructor: Steve Borst Ph.D.

M	Jan 8	Lecture 1	Borst	General Principles
		Lecture 2	Borst	Pharmacodynamics
M	Jan 15	Lecture 3	Borst	Pharmacokinetics I
		Lecture 4	Borst	Pharmacokinetics II
M	Jan 22	Discussion	Borst	Pharmacokinetics problems
		Lecture 5	Borst	Receptors & signal transduction
M	Jan 29	Lecture 6	Borst	Autonomic nervous system
		Lecture 7	Borst	Autonomic drugs
M	Feb 5	Lecture 8	Borst	Vasoactive drugs
M	Feb 12	Discussion	Borst	Cardiac drugs
		Review		
M	Feb 19			Exam I
		Lecture 10	Borst	Analgesics
M	Feb 26	Lecture 11	Borst	Opioid crisis
		Lecture 12	Borst	Non-steroidal anti-inflammatory agents
M	March 5	Spring Break		No class
M	March 12	Lecture 13	Borst	Glucocorticoids
		Lecture 14	Borst	Drugs effecting bone
M	March 19	Lecture 15	Borst	Glucocorticoids
		Lecture 16	Borst	Androgens/anti-androgens
M	March 26	Lecture 17	Borst	Performance-enhancing drugs
		Lecture 18	Borst	Athletic drug testing
M	April 2	Lecture 19	Borst	Drug-induced myopathy
		Lecture 20	Borst	Role of hormones in muscle hypertrophy I
M	April 9	Lecture 21	Borst	Role of hormones in muscle hypertrophy II
		Discussion	class	Research papers
M	April 16	Discussion	class	Research papers
M	April 23	Discussion	class	Research papers
		Review		
<b>T</b>	<b>May 1</b>	<b>Final Exam</b>		<b>Group 1D – 3-5 PM 1094 Weimer Hall</b>

Discussion of research papers: Students will prepare a 15-minute PowerPoint presentation on an unsettled question in pharmacology. Talks should include methods, experimental design, results and conclusions and should draw on at least 3 sources in the scientific literature. Class discussion: are the methods and results valid? Do you agree with the conclusions? What are the implications?

# PET 5936 Course Policies

Student learning outcomes: We will cover the basic principles of drug action, administration and elimination. We will cover most of the major classes of drugs. Emphasis will be placed on drugs used in sports medicine and drugs used in assessment of exercise physiology.

Subject area objectives: Biological science courses provide instruction in the basic concepts, theories and terms of the scientific method in the context of the life sciences. Courses focus on major scientific developments and their impacts on society, science and the environment, and the relevant processes that govern biological systems. Students will formulate empirically-testable hypotheses derived from the study of living things, apply logical reasoning skills through scientific criticism and argument, and apply techniques of discovery and critical thinking to evaluate outcomes of experiments.

Instructor: Steve Borst, Ph.D. (352)-283-1567 [seborst@ufl.edu](mailto:seborst@ufl.edu)

There are no specific office hours, but students are encouraged to contact the instructor by phone or Email.

Departmental contact: Michael Balkcom, PO Box 118206 25 Florida Gym,

Website: <https://elearning.courses.ufl.edu/webct/urw/lc955889.tp0/cobaltMainFrame.dowebct>

Class schedule, policies, lecture outlines and grades will be posted on the website. Answers to exam questions will be posted as soon as possible after the exam. Grades may be accessed at the web site using the 4-digit code assigned by the student.

Exams: There will be 2 exams; the first will cover the first half of the lectures and the second exam will cover the second half of the lectures (and will not be cumulative). Make-up exams cannot be given without prior permission of the instructor. The only excuses are medical or other emergency, with documentation.

Grading: Exam I will be 40%; Exam II will be 40%, class presentation of a paper will be 20%. Information on current UF grading policies for assigning grade points. This may be achieved by including a link to the appropriate undergraduate catalog web page:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found in the online catalog at:  
<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu>.

Students requesting classroom accommodation must first register with the Dean of Student Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation.

UF students are bound by The [SEP] Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code (<http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obliged to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor of TAs in this class. [SEP]

Phone number and contact site for university counseling services and mental health services: 392-1575, <http://www.counseling.ufl.edu/cwc/Default.aspx>[SEP] University Police Department: 392-1111 or 9-1-1 for emergencies.

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