

BIOL2117 (Section 01) Syllabus

BIOL2117 Course Schedule			
	<u>Date</u>	Lecture Topic	Readings (TBA)
1	Tuesday May 19	Introduction, Homeostasis, Cell Physiology, Diffusion	
2	Thursday May 21	Transport and Osmosis; Cell Signaling	
3	Tuesday May 26	Resting and Active Membrane Potential; AP conduction, Synaptic transmission	
4	Thursday May 28	Nervous System Organization; Endocrine; Somatic Nervous System and Skeletal Muscle	
5	Tuesday June 2	EXAM 1 (lectures 1-8; 30% of final grade); Cardiac I	
6	Thursday June 4	Cardiac II; Blood Flow I	
7	Tuesday June 9	Blood Flow II; Respiratory I	
8	Thursday June 11	Respiratory II; Respiratory III	
9	Tuesday June 16	EXAM 2 (lectures 9-15; 30% of final grade); Renal I	
10	Thursday June 18	Renal II; Renal III	
11	Tuesday June 23	Acid/Base balance; Sports Physiology	
12	Thursday June 25	Gastrointestinal I; Gastrointestinal II/Control of Feeding	
13	Tuesday June 30	Metabolism/Diabetes/Review	
14	Thursday July 2	Final Exam	

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Course Homepage: <https://mycourses.brown.edu>

The BIOL2117 homepage is located on MyCourses and will contain all of the information found on this handout plus a whole lot more. Please refer to the course homepage for the most up-to-date information including online office hours, additional reading, problem sets, lecture slides and exam results. Lecture slides in Powerpoint format will be posted prior to each lecture. It will be assumed that students will have these slides at each lecture so more time will be spent discussing material rather than transcribing text and images. However a small amount of material may be omitted from this initial posting for the purpose of in-class exercises. The omitted material will be posted on the webpage after the class.

Personnel:

Course Director: Dr. John Stein (MRL 101, x2263, John_Stein@brown.edu)

Textbook: Vander's Human Physiology 11th ed. ISBN 978-0-07-304962-5

Course Information

BIOL2117 provides an introduction to basic human physiological concepts along with more advanced coverage of selected systems. We will start with topics of diffusion, cell physiology and the basis of cell membrane potential and then cover the nervous, endocrine, musculoskeletal, cardiovascular, respiratory, renal and gastrointestinal systems. We will focus on normal human physiology and at times incorporate discussions of exercise physiology, pathophysiology, and specific physiologic scenarios to build toward the goal of understanding complex integration of function between cells, tissues and organ systems.

I. Lectures

Lectures will start promptly at 3pm and finish at 6:15pm with at least 2 breaks. Breaks are a good time to ask questions and receive clarification about the material we have just covered. Students are encouraged to ask questions during lecture, during the breaks, and after lecture.

II. Online Office Hours

Tentative plans are to have online office hours and reviews on Monday afternoon/early evening (exact times TBD). This will be hosted through Adobe Acrobat Connect and include realtime whiteboard and audio connection that will allow you to participate via a webpage. More details on this will follow.

III. Grades

Final grades are determined by performance on 2 midterm exams, a cumulative final exam. The relative weighting of these three factors is as follows:

Midterm I:	30%
Midterm II:	30%
Final Exam:	40%
Final Score:	100%

IV. Exams

This course consists of 2 midterm exams and a cumulative final exam. While the exams are non-cumulative per say, retention of knowledge from the prior section of the course is essential for success on subsequent parts of the course. The final exam will cover material that will integrate topics covered over the first two parts of the course and is therefore accurately described as a cumulative exam.

A. Format and Content

Exams will consist of roughly 50% Multiple choice and 50 % short answer. They will be based on information presented in lecture, handouts and reading assignments.

B. Exam Excuse Policy

If you have an excused absence from an exam, the other two exams will be weighted more heavily to make up the difference. Special considerations may be given in the case of extenuating circumstances.

C. Exam re-grades

Requests for exam re-grades must be made no sooner than 1 day after and no later than 1 week after the day the exam is handed back. For any exam to be considered for a re-grade you must submit it in writing AND you also must include detailed explanations of the reasons your exam should be considered for a re-grade. Any test submitted for a re-grade for a particular question is subject to further re-grading at the discretion of the professor.