

BIOL 5600/6600 – Mammalian Physiology

Instructor: L. C. Wit
Office: Science Center Classroom, Room 249-A
Teaching Lab: Science Center Laboratory 419
Telephone: 844-4555
E-Mail: witlawr@auburn.edu
Office Hours: By appointment – ask for Ms. Lindsay
Class Page: <http://www.auburn.edu/biol5600>

1. Text Books:

Lecture: Biomedical Physiology (1st ed.) Goodwin and Wit (required)
Textbook of Medical Physiology (12th ed.) Guyton and Hall (recommended)
Lab: Animal & Mammalian Physiology Handbook (1st ed) Person, Ward, and Henry (required)

2. Objectives:

This course will be a discussion of membrane physiology, muscle physiology, neurophysiology, cardiovascular physiology, renal physiology, respiratory physiology, endocrinology, and digestive physiology. I encourage you to think physiologically this semester rather than just memorize mundane facts. Please feel free to question me at any time about things you do not understand. I look forward to an exciting and stimulating semester.

3. Grading:

Exam I	100 pts. (Feb. 13)
Exam II	125 pts. (March 5)
Exam III	100 pts. (April 9)
Final	125 pts. (May 3)
Lab Exam	105 pts. (April 23)
Lab Reports	45 pts.
TOTAL	600 pts.

The hourly exams and laboratory exam will be given at night. This time should be viewed as make-up time for those weeks when no labs are scheduled.

Letter grades will be assigned on the basis of overall performance. The following will be used to determine final grades:

A = 555 – 600
B = 510 – 554
C = 460 – 509
D = 420 – 459
F = < 420

Pop quizzes will be of two types. The first type will be given orally during class; they are generally worth 1-3 points. The second type are those periodically collected from the quizzes found at the end of the chapters in your textbook (Goodwin and Wit). Students will be asked to sign these quizzes indicating that a particular quiz represents their individual work. **Only original copies of these quizzes will be accepted.** Photocopied quizzes are unacceptable, and you must be present in class to turn in your quiz. These quizzes will be worth 1-2 points each.

I have posted several copies of old exams on the WEB. Please feel free to use them at your convenience. Years of experience in questioning successful students has revealed that nothing will succeed in this course other than frequent study.

What you do the first three weeks is as important as what you do the last three weeks. **GET AN EARLY START.** Exams are demanding and difficult; you must be thoroughly familiar with the information to the point of being able to apply it. Other study helps can be found on the class web page; just click on “Study Help”. I strongly encourage you to look at this site.

4. Lecture Policies:

At the Web site you will find handouts which contain a general outline of the particular section, any complicated figures and drawings, and suggested readings. These handouts are not designed to be used as a replacement for notes and attendance, but rather are to be viewed as learning aids. I encourage you to bring them to class with you as I will refer to them frequently in lecture. I will also post my PowerPoint presentation on the WEB, but the outlines are a better in-class resource. Finally, the Goodwin and Wit textbook will also be a great help in preparing your notes, but I do **NOT RECOMMEND** it as a substitute for your own note taking.

5. Attendance Policies:

Although I will not take attendance, years of experience have shown that those who do not come to class do poorly in the class. Also, if you miss class you will not be able to take the pop quizzes and have access to those bonus points. Something almost “magical” happens when you hear the story first hand and write it down in your own words. Once again, I encourage you NOT to simply underline the textbook as a substitute for taking notes.

Attendance at exams is mandatory, and, once again, history has shown that students who take the exams when scheduled outperform those students who take them at other times. Only university-sanctioned excuses will be accepted for missing exams. If you must miss an exam, please notify me before you miss it (preferably), but no later than 24 hours after missing the exam. Typically, make-up exams will be scheduled within 48 hours of the missed exam.

6. **Graduate students:** If you are taking this course for graduate credit you must e-mail me during the first two weeks of class.

7. **Misc:**

Any student requiring special help due to any disability should notify the instructor within the 1st week of class.

Laboratory Schedule – Spring Semester, 2012

Week of Jan. 9 – No Lab (first week)

Week of Jan. 16 – No Lab (MLK Holiday)

Week of Jan. 23 – Orientation

Week of Jan. 30 – 1- Instrumentation

Week of Feb. 6 - 2 – Skeletal Muscle Physiology #1 (Leopard Frog)

Week of Feb. 13 - 3 – Axonal Conduction, Neuromuscular Junction (Leopard Frog)

Week of Feb. 20 - 4 – Smooth Muscle (Rat)

Week of Feb. 27 – **MIDTERM**

Week of March 5 - 5 – Small Animal (Rat)

Week of March 12 – **SPRING BREAK**

Week of March 19 - 6 – Blood Pressure (Rabbit)

Week of March 26 – 7 – Cardiac Physiology (Bullfrog)

Week of April 2 - 8 - Ventilation (Rabbit)

Week of April 9 – 9 – Renal Physiology (Rat)

NOTE: Students who have unexcused absences from the lab will not be allowed to accrue any lab bonus points nor will they be permitted to submit a lab report for the day they missed. All excused absences from lab must be initiated via Dr. Wit