

ABIO 242 Human Physiology Summer I 2001

This is a four hour introductory human physiology course with lecture and laboratory. The focus of this course will be to understand the underlying mechanisms by which cells, tissues, organs and organisms function.

PREREQUISITES: ABIO: A101 or A102 or A232
ACHM: A101 or A111

INSTRUCTOR: Dr. David K. Strom

TO CONTACT: Office: 101C, Science Building
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Home Page: <http://www.usca.sc.edu/biogeo/faculty/strom/strom.html>

OFFICE HOURS: I do not have set office hours. You should be able to find me any day of the week. I will usually be in Rm 101C or Rm 217. If its really important then make an appointment, otherwise, just drop by and hope I am around.

ATTENDANCE: Laboratories: Attendance at all the laboratories is required. Missing laboratories will not be excused without either prior notice, or the appropriate documentation.

Lectures: I will not take role at lectures, attendance is up to you. However, there will be random quizzes and assignments during lecture that cannot be made up if you miss, unless you have an acceptable reason for your absence (and documentation to support your excuse).

Tests: There will be no day of test excused absences without appropriate documentation. All tests are counted, if you miss a test, you receive a zero for that test. If you have an appropriate excuse to miss a test, the make-up test time and format will be at my discretion.

DISABILITY: If you have a physical, psychological, and/or learning disability which might affect your performance in this class, please contact the Office of Disability Services, 126A B&E, (803) 641-3609, as soon as possible. The Disability Services Office will determine appropriate accommodations based on medical documentation.

TEXTBOOK: *Human Physiology: An Integrated Approach, 2nd Ed.*, By Silverthorn

LAB MANUAL: *PhysioEx 2.0: Laboratory Simulations in Physiology.* By Peter Z. Zao NOTE: At the end of the semester this laboratory book will not be returned to the student. However, you may keep the CD-ROM that comes with it.

OTHER BOOKS: Although not required, many students have found the *Physiology Coloring Book*, by Kapit, Macey and Meisami to be very helpful.

GRADING: Four lecture/lab exams (20% each) ~60% (400 points. 100 points/test)
Laboratory exercises, reports or quizzes ~25% (100 points. 10 points/lab)
Other assignments and quizzes ~15% (100 points)

Your final grade will be based on your total points divided by the total possible points in the course. The following percentages will apply.

>90% =A >80% =B >70% =C >60% =D <60% =F

EXTRA CREDIT: a) 10 points extra credit will be given to any student completing one evaluation from each category of the 11 categories found in the Personal Assessment Labs. There is also a link on my home page. <http://www.mhhe.com/hper/health/personalhealth/labs/>

b) An additional 10 points can be made by donating blood or platelets, during the semester that you are taking physiology, and then writing a one page description of your bodies physiological response to the loss of volume and cells.

All extra credit material is due by the last scheduled class period.

ACADEMIC HONESTY: Academic honesty will be expected from all students, any offense will be dealt with as outlined in your student handbook under Academic Code and Conduct.

OTHER SUPPLIES: Students will need to purchase one package of 5x8 inch index cards and bring them to each lecture.

| Day | Date | Topic | Lecture | Lab | Quiz |
|-----|------|---|---------|-----|--------|
| F | 6/1 | Introduction, Membrane Dynamics | Ch.5 | #1 | |
| M | 6/4 | Membrane Dynamics, Communication etc.. | Ch.5 | | Ch. 5 |
| T | 6/5 | Communication, Endocrine | Ch.6 | | Ch. 6 |
| W | 6/6 | Endocrine | Ch.7 | | Ch. 7 |
| Th | 6/7 | Nervous System | Ch.8 | | Ch. 8 |
| F | 6/8 | Review <i>NeuroSim</i> | | #2 | |
| M | 6/11 | Test#1(5,6,&7) Nervous System, Tutorial | | | |
| T | 6/12 | Muscle | Ch.12 | #3 | Ch. 12 |
| W | 6/13 | <i>Muscle Physiology</i> | | #4 | |
| Th | 6/14 | Heart | Ch.14 | #5 | Ch. 14 |
| F | 6/15 | Review <i>EKG</i> | | #6 | |
| M | 6/18 | Test #2 (8,12,&14) Cardiac Output | | | |
| T | 6/19 | Cardiac Output | Ch.15 | | Ch. 15 |
| W | 6/20 | <i>Cardiovascular Dynamics</i> | | #7 | |
| Th | 6/21 | Blood | Ch.16 | #8 | Ch. 16 |
| F | 6/22 | Immune System/Review | Ch.22 | | Ch. 22 |
| M | 6/25 | Test #3 (15,16,&22) Respiratory | | | |
| T | 6/26 | Respiratory | Ch.17 | | Ch. 17 |
| W | 6/27 | <i>Respiratory Physiology</i> | | #9 | |
| Th | 6/28 | Kidney | Ch.18 | | Ch. 18 |
| F | 6/29 | <i>Renal Physiology</i> | | #10 | |
| M | 7/2 | Cancer/ Reproduction/Review | Ch.24 | | Ch. 24 |
| T | 7/3 | Final (17,18,&24) 9:00-11:00 AM Room 108 | | | |