

**PHYSIOLOGY ABIO 242 (4 credit hours)  
SPRING 2005**

**INSTRUCTOR:** Dr. Buck Pridgen Rm 209 (Contact through Ms. Cutsinger, Dept Administrative Assistant, Room 201)

**LECTURE ROOM:** Science Bldg Room 327

**LABORATORY:** Science Bldg Room 108

**TEXTBOOK:** *Human Physiology*, Silverthorn, 3d Ed

**LAB MANUAL:** *PhysioEx for Human Physiology*, Stabler, 2d Ed

**COURSE DESCRIPTION:** This is an introductory course to human physiology. Current concepts and teaching of cellular biology will be emphasized as the commonality of biochemical events which provide the foundation of function for the varied body systems.

**COURSE OBJECTIVES:**

- 1) To provide the student with an understanding of basic biochemical operations in the functional output of cells and systems.
- 2) To survey the functions of individual organs and systems.
- 3) To acquaint the student with the integration of systems function as the manifestation of ultimate body homeostasis.
- 4) To expose the student to the constructs of scientific inquiry through laboratory experimentation with primary hands-on and simulation activities.
- 5) To provide a brief introduction to abnormal function/pathophysiology/disease of selected organs/systems.
- 6) To challenge the student to appreciate "the wonder of it all"!

<b>EVALUATION:</b>	Five Lecture Quizzes	60%
	Lab: Reports/Participation/Quizzes	20%
	Written Critique on current literature	10%
	Final	10%

## ADDITIONAL COMMENTS:

- 1) You will be expected to have read the assigned material prior to lecture.
- 2) You will be expected to have read applicable lab manual exercises.
- 3) You must bring the laboratory manual to lab.
- 4) You will be expected to endorse the following **HONOR PLEDGE** on every quiz/exam:  
**On my honor as a University of South Carolina at Aiken student, I have neither given nor received any unauthorized aid on the assignment/examination. To the best of my knowledge, I am not in violation of academic honesty.**
- 5) No makeup exams will be given for the laboratory portion of the quizzes. No makeup exams will be given for the lecture portion except under some extreme situations (see Student Handbook).
- 6) You are encouraged to make appointments with me **if you are having problems understanding the expectations and content of this course.**
- 7) If you have a physical, psychological, and/or learning disability that 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.
- 8) **We will be using the machine graded Scantron sheets for Lecture quizzes this semester!!!!!! Please insure that you have both the answer sheet and a #2 lead pencil on the day of the quiz!!!!!!**
- 9) **This is a difficult course. I strongly advise each and every one to utilize your time judiciously and to prioritize your outside time in order to stay current on the assignments!!!!**

Schedule ABIO 242 Physiology Spring 2005

Jan 11	Tue	1 Introduction Chap 1
Jan 13	Thu	2 Scientific Method/Clinical Studies
Jan 18	Tue	3 Cell Components Chap 3
Jan 20	Thu	4 Membranes Chap 5
Jan 25	Tue	5 Membranes cont'd
Jan 27	Thu	6 Q1
Feb 1	Tue	7 Respiratory Chap 17
Feb 3	Thu	8 Resp. Cont'd Chap 18
Feb 8	Tue	9 Signals Chap 6
Feb 10	Thu	10 Muscles Chap 12
Feb 15	Tue	11 Q2
Feb 17	Thu	12 Heart/Pump Chap 14
Feb 22	Tue	13 Pipes&Pressures Chap 15
Feb 24	Thu	14 Renal Chap 19
Mar 1	Tue	15 Fluids&Electrolytes Chap 20
Mar 3	Thu	16 Q3
Mar 8	Tue	Spring Holiday
Mar 10	Thu	Spring Holiday
Mar 15	Tue	17 More Signals Chap 6
Mar 17	Thu	18 Electrical Membranes Chap 8
Mar 22	Tue	19 Autonomic NS Chap 11
Mar 24	Thu	20 Endocrine Chap 7
Mar 29	Tue	21 Q4
Mar 31	Thu	22 GI Chap 21
Apr 5	Tue	23 Cell Metabolism Chap 4
Apr 7	Thu	24 Metabolism (Cont'd) Chap 22
Apr 12	Tue	25 Endocrine II Chap 23
Apr 14	Thu	26 Q5
Apr 19	Tue	27 Blood/Coag Chap 16
Apr 21	Thu	28 Immunology Chap 24

FINAL May 3d 11:00 AM

Jan 11/13	NO LAB
Jan 18/20	Library/Use of the Literature
Jan 25/27	PhysioEx #1 Diffusion etc
Feb 1/3	PhysioEx #7 Respiratory
Feb 8/10	PhysioEx #9&10 Renal/Acid-Base
Feb 15/17	PhysioEx #6 Cardio I
Feb 22/24	PhysioEx #5 Cardio II
Mar 1/3	Clinical: Exercise Physiology Chap 25
Mar 15/17	PhysioEx #2 Muscle Membranes
Mar 22/24	PhysioEx #3 Neural Membranes
Mar 29/31	PhysioEx #8 Digestion
Apr 5/7	PhysioEx #4 Endocrine
Apr 12/14	LAB QUIZ
Apr 19/21	Blood Typing