

**BSC 228 Human Physiology
Spring 2014**

Course description: Basic concepts of human physiology, including an introduction to physiological control mechanisms operating at cellular, tissue, organ, and systems levels. Provides the scientific background for understanding pathophysiology. Does not count toward a major in Biological Science. 4-credits
(Prerequisite: BSC 227 with grade of C or better)

Instructor: Jeff Kovatch, PhD

Office: S-116

Phone: 304-696-3829

email: kovatch@marshall.edu

Office Hours: Open hours T 12:30-4:30

An appointment is required if you want to meet outside of open office hours.

Lecture: 105 Corbly Hall

Times: T & R 11-12:15

Lab: 387 Science Building

Lab Section	Day & Time	Teaching Assistant	Email
201	M 5-7:50	Ryan King	king347@marshall.edu
202	T 1-3:50	Ryan King	
203	W 1-3:50	Debbie Moore	moore355@marshall.edu
204	Th 1-3:50	Kelli Harrick	herrick6@marshall.edu
205	T 5-7:50	Corinne Adkins	adkins726@marshall.edu
206	F 9-11:50	Debbie Moore	

Texts: *Human Physiology: From Cells to Systems*, 8th Edition, 2013, L. Sherwood, Brooks/Cole Cengage Learning (required*)
BIOPAC Student Laboratory Manual (required)

Grading: Letter grades will be assigned as follows:

A = 90 - 100% B = 80–89% C = 70–79% D = 60–69% F = <60%

Proportional point allocation for the course:

Exams (4)	60 %
Online Quizzes	15 %
Lab reports	20 %
Lab Quizzes (n)	5 %

I do not offer extra credit assignments.

Lecture exams: There will be four exams, including the final. Each exam will be worth 15% of the total course grade. Material on examinations can include information from lectures, assigned readings, and laboratory exercises. Failure to put correct lab section on an exam results in -5% on that exam. Please notify me in advance if you know you will miss an exam (see Attendance Policy below).

Online Quizzes: Weekly quizzes will be posted on MUOnline and will cover textbook reading material scheduled for the week (see Table below). Quizzes will be open for one week and will close at 12:00 AM on Fridays (i.e., midnight, Thursday). There will be 15 five-point quizzes. Missed quizzes cannot be made up.

Labs: Your laboratory performance will contribute 25% of your total course grade. This will be determined from laboratory data analyses, lab hand-ins, written lab reports and pre-lab quizzes. All lab reports, unless otherwise noted, must be handed to your TA in printed form and be on time. Electronic submission of all lab reports to TurnItIn must occur before the start of your lab. Late reports will not be accepted. You must be present in lab in order to hand in any type of lab report for credit. Lab quizzes may or may not be announced and cannot be made up.

University and Course Policies:

1. **UNIVERSITY POLICIES:** By enrolling in this course, you agree to the Marshall University Policies (listed in the link below). Please read the full text of each policy by going to www.marshall.edu/academic-affairs and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to http://www.marshall.edu/academic-affairs/?page_id=802 for Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with

Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

2. ATTENDANCE POLICY: Attendance in lectures is expected and is required for laboratory exercises. Students are responsible for all activities and announcements that occur during lecture and lab. Students are responsible for any material missed. Missed information should be obtained from classmates.

Absences and from exams due to illness, death in the family, or institutional activities will be excused only with an official university excuse from the MU Student Affairs Office (MSC 2W38). Make-up exams will be administered for excused absences only and will be given on 5/1/2014, the last day of scheduled class. The instructor must be notified within 10 days of the missed exam in order to be eligible for a make-up exam (see Policy 1).

Students are expected to be on time for lectures, labs, and exams. Arrival for an exam after the first person has handed in their exam will result in you not being allowed to take the exam.

3. COMPUTER LITERACY: Course materials and course announcements are located on MUOnline (<http://www.marshall.edu/muonline>). Notify me within the first week of class if you cannot access these.

4. STUDENTS RESPONSIBLY: *Students are responsible for reading the appropriate material from the textbook, posted readings, and lab handouts.* Students are responsible for reading the text material to help understand the material covered during lecture and lab. Questions about the reading material should be given to the instructor so the material can be clarified in class. Examination questions may come directly from assigned reading material or covered laboratory material.

Students are required to stay on task during the lecture and laboratory exercises. Students may be asked to work in groups during class time and as part of following protocols in lab.

Communications from the instructor may come via your Marshall E-mail account, MUOnline and/or lecture. It is your responsibility to check both your Marshall email account and MUOnline announcements regularly.

Electronic communications to the instructor must have BSC 228 in the subject line, include your full name and lab section in the message, and be written formally.

5. RECORDS: Students are encouraged to mark both the exam and answer sheet and return both at the end of the exam period. Should a question arise concerning grading the *answer sheet will be the official response*. Exams and answer sheets will be kept for one semester or summer term following completion of the course.

Grades will not be given or discussed over the phone or e-mail. You must be present during lecture or lab to collect graded exams, quizzes, and lab reports. Students should keep all returned exams score sheets and lab reports so that their relative standing in the course can be known at any time. All grades appeals must be done formally in writing and with 10 calendar days of the returning of the graded item to the student.

6. ELECTRONIC DEVICES: All electronic devices (laptops, handheld computers, instant messaging devices, PDAs, cell phones, pagers, data-bank watches, etc.) must be turned off during class. *Failure to do so may result in your dismissal from that lecture period.* Only standard calculators will be permitted during examinations; cell phones, handheld computers, PDA's, laptops, or the like will not be permitted. Do not come unprepared. Audio or video recording of lectures is not permitted without prior consent of Dr. Kovatch.

7. LABORATORY ASSIGNMENTS: A printed copy of all lab reports must be handed in to your TA at the beginning of lab; neither Dr. Kovatch nor other TAs will accept the sheets or deliver them to your TA. Points will be deducted for late reports. Written lab reports must also be submitted to turnitin (through MUOnline) prior to the start of the lab at which it is due. Missed labs cannot be made up after the week is over. If discrepancies between instructions from the TA and the instructor should arise, the instructor's instructions and policies will be followed.

Student Learning Outcomes: BSC 228

Course Outcomes	Opportunities to Practice Course Outcome	Course Outcome Assessment(s)
Articulate and describe the basic concepts of human physiology at multiple levels of organization	In-class discussions and laboratory exercises	Examinations and quizzes
Discuss and use the scientific approach to solve problems within the field of physiology	In-class discussions and laboratory experiments	Examinations, quizzes and laboratory reports
Read and analyze charts, graphs, and tables conveying scientific information	In-class discussions and laboratory exercises and experiments	Examinations, quizzes and laboratory reports
Collect, interpret, present and discuss scientific data	Laboratory experiments	Formal written laboratory report

Tentative Course Schedule

BSC 228 Spring 2014

Date	Topic	
1/14	Homeostasis (1) and Intro	3/11 Exam 2 (6-11)
1/16	Chemistry Appendix	3/13 Urinary System (14)
1/21	Cell Physiology (2)	3/18 <i>Spring Break</i>
1/23	Plasma Membrane and Gradients (3)	3/20 <i>Spring Break</i>
1/28	Principles of Communication (4)	3/25 Urinary System (14)
1/30	Principles of Communication (4)	3/27 Fluid and Acid-Base Balance (15)
2/4	CNS (5)	4/1 Digestive System (16)
2/6	PNS (6 & 7)	4/3 Digestive System (16)
2/11	Muscles Physiology (8)	4/8 Exam 3 (12-15)
2/13	Exam 1 (1-5 and Chem)	4/10 Energy and Temperature Balance (17)
2/18	Muscles Physiology (8)	4/15 Energy and Temperature Balance (17)
2/20	Cardiac Physiology (9)	4/17 Endocrine System (18)
2/25	Blood Vessels and Pressure (10)	4/22 Peripheral Endocrine System (19)
2/27	Blood (11)	4/24 Reproduction (20)
3/4	Body Defenses (12)	4/29 Reproduction (20)
3/6	Respiratory System (13)	5/1 Make up Exam Day
		5/9 Final exam 10:15-12:15 (16-20)