

Marshall University Syllabus

Course Title/Number	Human Physiology – BSC 228
Semester/Year	Spring 2016
Days/Time	Lecture: MWF 10:00-10:50 Labs: Sec. 101 – M 13:00-15:50 Sec. 102 – T 13:00-15:50 Sec. 103 – Th 13:00-15:50
Location	Lecture: S 376 Lab: S 387
Instructor	Dr. Jeff Kovatch
Office	Science Building 122A
Phone	304-696-3829
E-Mail	kovatch@marshall.edu
Office Hours	MWF 8:30-10:00 & W 16:00-17:00
University Policies	By enrolling in this course, you agree to the University Policies listed 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 www.marshall.edu/academic-affairs/policies/ . 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

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)

Required Texts and Other Materials

1. Widmaier, E.P., Hersh, R., Strand, K.T. 2015. *Vander’s Human Physiology: the mechanisms of body function*. 14th Ed. McGraw Hill, New York.***
2. Student Lab Manual
3. Response Card NXT: RCXR-03 Clicker

Grading Policy

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	5 %

I do not offer extra credit assignments.

Student Learning Outcomes for BSC 228

Course student learning outcomes	How students will practice each outcome in this course	How student achievement of each outcome will be assessed in this course
Students will articulate and describe the basic concepts of human physiology at multiple levels of organization.	In-class discussions and laboratory exercises	Examinations and quizzes
Students will 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
Students will read and analyze charts, graphs, and tables conveying scientific information	In-class discussions and laboratory experiments	Examinations, quizzes and laboratory reports
Students will collect, interpret, present and discuss scientific data	Laboratory experiments	Formal written laboratory report

Course Requirements

Lecture exams: There will be four exams, including the final (see course schedule below). 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). A Response Card NXT: Rcxr-03 Clicker is required for examinations. It is the student's responsibility to have the clicker and be in operating order for the exam.

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. Additionally, electronic submission of all lab reports to SafeAssign must occur before the start of your lab on the due date. 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.

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.

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 appropriate documentation and written verification from the instructor or an official university excuse from the MU Student Affairs Office. Make-up exams will be administered for excused absences only and will be given on 12/9/2016, the last day of scheduled class. The instructor must be notified within 10 calendar days of the missed exam in order to be eligible for a make-up exam.

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.

Student Responsibility

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 e-mail 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 (see handout on MUOnline).

Records

Students are encouraged to mark both the exam as well as enter answers into the Response Clicker. The paper exam needs to be returned with a name on it in order to receive credit for the exam. Should a question arise concerning grading, the Response Clicker answer will be the official response.

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 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.

Electronic Devices

All electronic devices (laptops, handheld computers, instant messaging devices, PDAs, cell phones, pagers, data-bank watches, etc.) not being used to take notes & 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.

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. Written lab reports must also be submitted to SafeAssign (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.

Tentative Course Schedule

Numbers in brackets are chapters in course text.

Date	Lectures (Ch)
8/22	Intro
8/24	Homeostasis (1)
8/26	Chemical Comp of Body (2)
8/29	Chemical Comp of Body (2)
8/31	Cell Physiology (3)
9/2	<i>No Lecture</i>
9/5	<i>No Lecture – Labor Day</i>
9/7	Cell Physiology (3)
9/9	Plasma Membrane and Gradients (4)
9/12	Plasma Membrane and Gradients (4)
9/14	Principles of Communication (5)
9/16	Principles of Communication (5)
9/19	Central Nervous System (6)
9/21	Central Nervous System (6)
9/23	Exam 1 (1-5)
9/26	Peripheral Nervous System (7)
9/28	<i>No Lecture</i>
9/30	Peripheral Nervous System (7)
10/3	Nervous System
10/5	Muscles Physiology (9)
10/7	Muscles Physiology (9)
10/10	Muscles Physiology (9)
10/12	Control of Movement (10)
10/14	Endocrine System (11)
10/17	Cardiac Physiology (12)

Date	Lecture (Ch)
10/19	Exam 2 (6,7,9,10)
10/21	Cardiac Physiology (12)
10/24	Cardiac Physiology (12)
10/26	Respiratory System (13)
10/28	Respiratory System (13)
10/31	Respiratory System (13)
11/2	Urinary System (14)
11/4	Urinary System (14)
11/7	Urinary System (14)
11/9	Digestive System (15)
11/11	Digestive System (15)
11/14	Exam 3 (11-14)
11/16	Digestive System (15)
11/18	Immune System (18)
11/21	<i>Thanksgiving break</i>
11/23	<i>Thanksgiving break</i>
11/25	<i>Thanksgiving break</i>
11/28	Energy & Temperature Balance (16)
11/30	Energy & Temperature Balance (16)
12/2	Energy & Temperature Balance (16)
12/5	Reproduction (17)
12/7	Reproduction (17)
12/9	Make Up Exam Day
12/12	Final exam (15-18) 10:15-12:15