

**MISSISSIPPI VALLEY STATE UNIVERSITY
DEPARTMENT OF NATURAL SCIENCES
BIOLOGY 302-01&02
PHYSIOLOGY
COURSE SYLLABUS**

Instructor: Dr. Rachel Venn Beecham
Email: rvbeecham@yahoo.com

Class Days: MWF (Lecture) 9:00-9:50 & 10:00-10:50
R (Labs) 8-10:40 & 1-3:40

Office Location: Science and Technology Building – Rm 2257

Office Phone: 662-254-3377

Office Hours: MWF 8-9, 11-1 and W 11-2

***NOTE: Additional office hours are by appointment only**

Required Text: Shier, David, Jackie Butler and Ricki Lewis. 2012. Hole's Anatomy & Physiology, Thirteenth, The McGraw-Hill Companies, Inc., New York, New York.

Laboratory Manual: Martin 2013. Laboratory Manual Cat Version, for Human Anatomy and Physiology, Second Edition

Connect for Hole's Human Anatomy and Physiology, with Learn Smart Labs (required and worth 100 points toward grade at end of semester)

Credit Hours: 4

Prerequisites: BI 111: CH 111-112: BI 301

I. GENERAL INFORMATION

EXPECTED STUDENT LEARNING OUTCOMES:

1. Use their conceptual understanding of physiology to solve problems.
2. Understand accurate, up-to-date, significant information about the human body, both structural and functional.
3. Demonstrate understanding and appreciation of anatomical and physiological research
4. Understand various disorders and diseases associated with the human body.

II. COURSE DESCRIPTION: A course in human physiology including cell structure, body chemistry, organs, and organ systems and their relationship to the functions of the body. This course is designed to enlighten the student in understanding the close interrelationship between anatomy and physiology and the human physicochemical processes necessary to life. The structure and function of the muscular, nervous, cardiovascular, digestive, respiratory, urinary, reproductive systems are studied.

The exercises are planned to illustrate and review anatomical and physiological facts and principles presented in the textbook and to help students investigate some of these ideas

in greater detail. The laboratory exercises include a variety of special features that are designed to stimulate interest in the subject matter, to involve students in the learning process, and to guide them through the planned activities. Dissections will be completed.

III. CRITERIA FOR GRADING:

<u>Test/Assignments</u>	<u>Points</u>	<u>Total Points</u>	<u>Grading Scale</u>	
			90-100%	A
Exams (7)	100 pts	700 pts	80-89%	B
Final Exam (Cumulative)	100 pts	100 pts	70-79%	C
Lab Practicals (1)	100 pts	100 pts	60-69%	D
Connect Assignments	100 pts	100 pts	Below 60%	F
Total		1000 pts		

IV. MAKE-UP WORK POLICY: No make-up tests will be given except in cases of an immediate family member’s death or grave personal illness. A valid excuse slip should be submitted upon return to class. **If you are a member of a University team (athletic or otherwise) and you have a scheduled event, tests and quizzes should be taken before you leave.** All other make-up tests must be taken **NO LATER THAN THE SECOND CLASS MEETING** after each test date. If tests are not made up within the allotted time, the grade will become a zero (Usually within the same week of the exam). **NO EXCEPTION.** The ten highest grades on quizzes will be counted and the rest will be dropped.

OUTLINE:

- Chapter 17 Digestive System
- Chapter 18 Nutrition and Metabolism
- Exam 1
- Chapter 10 Nervous System I: Basic Structure and Function
- Chapter 11 Nervous System II: Divisions of the Nervous System
- Exam 2
- Chapter 9 Muscular System
- Exam 3
- Chapter 14 Blood
- Exam 4
- Chapter 15 Cardiovascular System
- Exam 5
- Chapter 19 Respiratory System
- Exam 6
- Chapter 20 Urinary System
- Exam 7
- Chapter 22 Reproductive Systems
- Final Exam

*** Schedule may be changed in class as necessary to provide students with adequate coverage of some topics**

CLASS ATTENDANCE: (See Class Attendance Policy from the Mississippi Valley State Catalog). One hundred percent (100%) **PUNCTUAL** class attendance is expected of all students in all scheduled classes and activities. Instructor will keep attendance records and any absence for which a student does not provide written official excuse is counted as an unexcused absence. Students must understand that **EVEN WITH AN OFFICIAL EXCUSE OF ABSENCE, YOU (STUDENTS) ARE RESPONSIBLE FOR WORK REQUIRED DURING YOUR ABSENCE. YOU MUST BE PREPARED FOR TESTS OR QUIZES UPON YOUR RETURN.**

ACADEMIC INTEGRITY: Full responsibility is placed on the student for the content and integrity of all academic work submitted in the form of assignments, quizzes, and examination. Copying another person's work or portions of it is a violation of academic integrity and will be handled according to Mississippi Valley State University policy. **Cheating of any kind is absolutely NOT allowed. Students caught cheating run the risk of failing the class for the entire semester. Suspension or removal from the school is also possible (p 83 Student Handbook). Cell phones are not permitted in class on test days. Any cell phone (even if not being used) is grounds for cheating on test days.**

TEACHING/LEARNING STRATEGIES: To disseminate the information pertinent to this course, I will use lectures (Powerpoint, and chalkboard), group discussion, occasional guest speakers, dissections, and presentations

EVALUATION PROCEDURES: Exams will be composed primarily of multiple choice and/or short answer questions. Quizzes will be given randomly and intermittently throughout the course. Quizzes will generally be given in the first 15 minutes of class and any student who is not present will receive a 0 for the quiz. A laboratory portfolio of drawings, notes, dissections, and laboratory sheets will be collected and graded at midterm and final. A laboratory practical will be given on various structures seen during dissections.

PROPER LAB ATTIRE: I require students to wear closed-toe shoes and recommend that students wear clothes that can be destroyed to lab. I also strongly recommend that you purchase latex gloves. You must also wear a lab coat.

STUDENTS WITH DISABILITIES: Mississippi Valley State University is committed to providing reasonable accommodations for students with a documented disability. If you feel you are eligible to receive accommodations for a covered disability (medical, physical, psychiatric, learning, vision, hearing, etc.) and would like to request it for this course, you must be registered with the Services for Students with Disabilities (SSD) program administered by University College. It is recommended that you visit University College to register for the program at the beginning of each semester. If you are determined to be eligible after your confidential consultation, you will be provided with a Memo of Accommodations that must be submitted to each of your instructors. For more information or to schedule an appointment, please visit University College located in the H.G. Carpenter Building or call 662-254-8376 or 8433. Students who need special

accommodations are encouraged to see me after class or in my office by appointment, so we can discuss your situation confidentially. Please bring your memo from the Program for Students with Disabilities to me as soon as possible.

NOTE: The discs that you bought with your book may be used for testing purposes.

GENERAL COURSE GOALS:

- 1. To develop an understanding of writing as a tool for learning course material.**
- 2. To discuss some historical and current perspectives in physiology.**
- 3. To present biological aspects of nature of life.**
- 4. To characterize distinguishing elements of animal cells, tissues, and organs.**
- 5. To discuss the biology of human organs systems and their components.**
- 6. To present aspects of biology of the human organs and their tissues.**
- 7. To identify structures within the human body.**
- 8. To illustrate, with examples, some differentiating structural & functional aspects of the major organ systems.**
- 9. To present aspects of biology of muscular, nervous, respiratory, and cardiovascular systems.**
- 10. To present the biology, structure & function of the digestive, urinary, and reproductive systems.**

MATRIX: LINKAGE OF THE HTM AND GENERAL COURSE GOALS

GENERAL	<i>HTM</i>	<i>HTM</i>	<i>HTM</i>	<i>HTM</i>
Course Goals	Scholar	Facilitator	Reflective Thinker	Life-Long Learner
#1		*	*	*
#2			*	*
#3		*	*	*
#4	*	*		*
#5		*		*
#6	*		*	*
#7	*			*
#8	*	*	*	*
#9	*	*	*	*
#10	*	*	*	*

Syllabus subject to change at any point at the discretion of professor. This syllabus does not constitute a contract with the University. It contains guidelines.