

MONTGOMERY COUNTY COMMUNITY COLLEGE  
**BIO 132: M6W, EW– Human Anatomy and Physiology II (4 credits)**  
Spring Semester, 2017

**Instructor:** Dr. Jay Templin

**Meeting Place/Time** Rooms 206 and 244;  
MW: 6:00 PM – 9:00 PM (Section M6W); MW: 1:30 PM – 4:30 PM (Section EW)

**Telephone No:** 610-326-9742 (Home); 610-718-1877 (Work)  
**E Mail:** JTemplin@mc3.edu

**Office Hours:** Cubicle D of Faculty Offices  
MW: 4:45PM – 5:45 PM; TUTH: 12:00 noon – 12:30 PM

**Textbook:** Human Anatomy and Physiology by Marieb

**Lab Manual:** Laboratory Manual for Anatomy and Physiology, by Marieb

**Prerequisite:** Completion of BIO 131

**Course** **BIO 132 HUMAN ANATOMY AND PHYSIOLOGY II**

**Description:** A continuation of BIO 131 with study of the normal and pathological structure and function of the human body. Emphasis will be placed on circulatory, lymphatic, respiratory, digestive, urinary, endocrine and reproductive systems. Dissection of preserved animal material is required.

**General Course**

- Objectives**
1. To provide students with a basic understanding of the structure and function of the human body.
  2. To relate chemistry, cells, tissues, and organs in the organism in order to understand the structure and function of the human body.
  3. To provide a background for further study in a variety of professional fields.
  4. To develop an appreciation for the structure and function of the human body.

**Attendance Policy:**

As a student enrolled in BIO 132, you are expected to attend all lecture and lab class periods. I will take attendance for each class. You are allowed two absences for a MW class and two absences for a TUTH class for the entire semester. For each additional absence, your final average in the course will be lowered by one point. Tardiness for any class day will count as one-half of one absence. Tardiness means that either you are late for class or that you leave early, failing to complete the assigned work for that day.

With a valid reason, work missed due to absences or tardiness can be made up.

**Note:** If I cancel a class period on the scheduled exam day, or if the college cancels the class period that day, we will take the exam at the beginning of the very next scheduled class period when we do meet.

This is a tentative list of the lecture topics. This listing of topics closely follows the list of topics in your textbook. I will also announce the textbook chapters for these topics in class. For example, the endocrine system is found in Chapter 18.

### **Lecture Topics**

1. Introduction to Physiology and Homeostasis
2. Endocrinology
3. Hematology
4. Heart Structure and Function
5. Blood Vessels and Circulation
6. Fetal, Hepatic, and Lymphatic Transport
7. Anatomy/Respiratory System
8. Physiology/Respiratory System
9. Anatomy/Digestive System
10. Physiology/Digestive System
11. Metabolism
12. Anatomy/Urinary System
13. Physiology/Urinary System
14. Fluids and Electrolytes
15. Anatomy and Physiology/Male Reproductive System
16. Anatomy and Physiology/Female Reproductive System

A list of laboratory topics appears on the next page. Lab exercises will offer you the opportunity to reinforce some of the facts and concepts learned in lecture. Begin now to study your lab book. Can you find where the other laboratory topics are covered in your lab manual?

## Laboratory Topics

## Exercises

1. Endocrine System Anatomy
2. Slide Review
3. Hematology  
Blood Typing Handout
4. Heart Anatomy
5. Blood Pressure
6. Respiratory Anatomy
7. Spirometry
8. Digestion/Anatomy
9. Urinary/Anatomy
10. Reproductive/Anatomy

### Evaluation:

First, refer to the letter grades and test average ranges on page four. Five lecture exams will be administered throughout the semester. I will announce the date for each lecture exam well in advance. There will be one lecture exam about every 3 weeks. If any exam (lecture or lab) is missed for a valid reason, a make-up day will be scheduled at the end of the semester. You must state this reason to me in writing.

Each lecture exam will include multiple choice questions and short-answer questions. Objectives will be provided for each of the five units. Practice sheets will be provided in class. Back-tests will be placed on reserve. All of these aids serve as examples to practice for the lecture exams.

Each lecture exam will be based on lecture notes and all relevant textbook information. Ninety percent of the points for each lecture exam will be based on lecture notes, with the textbook serving as a reference. Ten percent of the points for each lecture exam will be based on information not covered in lecture. This percentage will be based on information from the reading alone.

Read all of the assigned textbook chapters to prepare for the lecture exams and the departmental final exam. Studying the laboratory manual, and relating your lab experiences to lecture, can also help you in this preparation. Each lecture exam will count ten percent toward the final grade for the course.

The topics for the five lecture exams are as follows:

- Exam I: Endocrine System
- Exam II: Cardiovascular System
- Exam III: Respiratory System
- Exam IV: Digestive System/Metabolism
- Exam V: Urinary/Fluid and Electrolytes/Reproductive

Two lab practicals (exams) will be administered during the semester. I will announce the scheduled time for each lab practical well in advance. One lab practical will be at about the middle of the semester. The other lab practical will be near the end of the semester. The lab practical questions will require short answers and involve questions at the laboratory stations. The questions will represent information studied in the lab. I will provide information checklists and examples of the lab practical questions in class. Each lab practical will count ten percent toward the final grade for the course.

The topics for the two lab practicals are as follows.

Lab Practical I: Endocrine System/Slide Review/CVS/Respiratory

Lab Practical II: CVS/Respiratory/Digestive/Urinary/Reproductive

A biology departmental final exam will be administered at an announced date at the end of the semester. It will include lecture, lab, and textbook information pertaining to the course.

Quizzes will be administered on most class days throughout the semester.

A final score for the course will be computed from your lecture test average, quiz average, lab test average, and the score on the biology departmental final exam. The four components of this final score for the course will be weighted as follows:

Lecture test average = 50%

Quiz average = 10%

Lab test average = 20%

Biology Departmental Final Exam Score = 20%

The final score for the course will be translated into a final letter grade for the course. The following ranges will be used for the final letter grade in the course.

**Evaluation:**

| Final letter grade for the course |   | Ranges for the final score |
|-----------------------------------|---|----------------------------|
| A                                 | = | 90 to 100                  |
| B                                 | = | 80 to 89                   |
| C                                 | = | 70 to 79                   |
| D                                 | = | 60 to 69                   |
| F                                 | = | Below 60                   |

**Note:** Attendance also affects your final grade in the course. See the note on this from page 2.

**Other Policies:****Withdrawal from the Course:**

Students initiate the process of course withdrawal after consultation with the instructor and/or an academic advisor/counselor. After the Add/Drop period ends and prior to completion of 60% of the course time, a student wishing to withdraw must submit an official drop/add/withdrawal form. An official grade of "W" (Withdrawal) is assigned to the course. After completion of 60% of the course time and prior to 75% of the course time the student must request and receive permission from the course instructor to withdraw from the course. The instructor completes an online Withdrawal Permission Form and indicates a final course state grade of "W" (Withdrawal). The College's Registration Calendar outlines specific dates associated with the withdrawal process that must be followed.

**Academic Discipline****(Cheating/Plagiarism)**

Refer to all stated policies in the current course catalog, student handbook and student handbook calendar.

**Code of Conduct:**

Refer to all stated policies in the current course catalog, student handbook and student handbook calendar.

**Students with Disability Policy:**

Students with disabilities may be eligible for accommodations in this course. At West Campus, contact the Disabilities Services Coordinator.

**Class Cancellation Policy:**

Inclement weather  
Call 610-718-1800 and listen to the message or  
Check our website: <http://www.mc3.edu>