

**Hagerstown Community College**  
**MASTER SYLLABUS**

**Bio 104 Human Anatomy and Physiology**

**BIO-104 Human Anatomy and Physiology II**

This is a continuation of BIO 103. The course includes cardiovascular, lymphatic, respiratory, digestive, renal, immune, and reproductive systems, fluid and electrolyte balance, and metabolism. Laboratory fee required. 45 hours of lecture and 45 hours of lab. Prerequisite: BIO 103. Semesters offered: Fall, Spring, Summer. 4 Credits

**INSTRUCTORS**

T. Bidle, B. Murpy, M. Jozik, Vennece Fowkles

**TEXTBOOK**

Human Anatomy and Physiology, McKinley, O'Loughlin, and Bidle ISBN: 9780077927042  
Human Anatomy and Physiology Lab Manual: Terri Bidle (available on Moodle)  
Anatomy and Physiology Coloring Book (optional)

**STUDENT LEARNING OUTCOMES**

1. Exhibit the ability to use core content in the Anatomy and Physiology curriculum (as evidence by a passing score on the comprehensive final exam common for all sections).
2. Apply physiological and anatomical principles of homeostasis to the disease state.
3. Demonstrate transfer of information from diagrams, models and non-human models to the human organisms.
4. General Education: Demonstrate the ability to access, process, analyze and synthesize scientific information.
  - a. Relate a basic core of scientific principles to an open-ended framework
  - b. Demonstrate observational and analytic skills in a structured situation.
  - c. Formulate conclusions based on observations and information.
  - d. Use technology to access scientific information, generate and analyze empirical data, and solve problems.

**Minimum Clock Hours Required for this Course**

<b>Component of Course</b>	<b>Hours In Class/Lab</b>	<b>Hours/Item Outside of Class</b>	<b>Total Hours/Semester Outside of Class</b>
<b><i>Lecture</i></b>	<b>37.5 hours</b>		
Quizzes		2 hours/lecture	<b>60 hours/semester</b>
Units Exams		12.5 hours/exam	<b>50 hours/semester</b>
Cumulative exam		7.5 hours/exam	<b>7.5 hours/semester</b>
<b><i>Laboratory</i></b>	<b>41.25 hours</b>		
Unit laboratory assessment		2.5 hour/lab	<b>30 hours/semester</b>
Laboratory Final		10 hours/lab exam	<b>10 hours/lab exam</b>
<b>Total</b>	<b>78.75 hours</b>		<b>157.5 hours</b>