

## Human Anatomy & Physiology

*UWGB: Introduction to Human Biology - Hum Biol 102--CCIHS college credits (3)\**

**Instructor:** Ryan Hibbard

**Classroom:** D244

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**Web Page:** <http://mrhibbs.weebly.com/anatomy-and-physiology.html>

**Prerequisites:** --**B or higher** in **Biology** or Advanced Biology

--**Chemistry** strongly recommended

--**Junior** or **Senior level** (Sophomores must meet all prerequisites and get instructor/UWGB approval)

*\*Upon successful completion of course, examinations and cost, UWGB credits may be earned*

**Course Description:** This advanced elective course is intended for students interested in studying how the human body works. The course follows a body systems approach emphasizing the interrelationships between structure and function at the gross and microscopic levels of organization of the human body. Students enrolled in the course have a high interest in human biology, medicine and/or health-related fields. Selected activity pages from the lab manual and other assigned worksheets will be collected at the end of each unit.

**Course Format:** The lecture/discussion portions of the course will overview the more fundamental and specialized concepts from each chapter and will require that students keep up with the reading of the texts. Laboratory work is also utilized to examine various levels of concept application through specimen dissections and measurement/observational activities. Some time will be offered in class to work on diagrams, models, and terminology practice but most of the students time on these aspects will need to be outside of class.

**Quizzes:** Quizzes will be given to cover both the terminology from each chapter as well as diagrams of the related anatomical structures.

\*Quizzes may not be retaken

**Tests:** Chapter tests will cover assigned chapters and concepts as well as terminology and anatomical diagrams.

\*Chapter Tests may be retaken and averaged with the initial test grade following a meeting with the instructor and the completion of a student test reflection packet.

**Exams:** Comprehensive exams will be given at the end of each quarter to assess students' retention of concepts from the chapters from that quarter.

**Texts:** Essentials of Human Anatomy & Physiology, 9th edition; Elaine N. Marieb

Essentials of Human Anatomy & Physiology—Laboratory Manual, 6th edition; Elaine N. Marieb

<u>UWGB Grading scale:</u>		<u>BPHS Grading scale:</u>			
<b>A</b>	100-94	<b>A</b>	100-93	<b>A-</b>	92-90
<b>AB</b>	93-87				
<b>B</b>	86-83	<b>B+</b>	89-87	<b>B</b>	86-83
<b>BC</b>	82-76			<b>B-</b>	82-80
<b>C</b>	75-72	<b>C+</b>	79-77	<b>C</b>	76-73
<b>CD</b>	71-68			<b>C-</b>	72-70
<b>D</b>	67-63	<b>D+</b>	69-67	<b>D</b>	66-63
<b>F</b>	62-0			<b>D-</b>	62-60
		<b>F</b>	59-0		

1 Year (2 semesters)

### **Semester 1**

Ch. 1 The Human Body: An Overview  
Ch. 3.2, 3.3 & Ch. 4 Tissues, Skin and Body Membranes  
Ch. 5 The Skeletal System

—*Quarter Exam*

Ch. 6 The Muscular System  
Ch. 7 The Nervous System  
Ch. 8 Special Senses

—*Quarter Exam*

### **Semester 2**

Ch. 10 Blood  
Ch. 11 The Cardiovascular system  
Ch. 12.1, 12.2 The Lymphatic System

—*Disorder Presentations and Quarter Exam*

Ch. 13 The Respiratory System  
Ch. 14 The Digestive System and Body Metabolism  
Ch. 15 The Urinary System

—*Quarter Exam*

### **Human Biology Programmatic Outcomes:**

1. Demonstrate a basic knowledge of molecular / biochemical processes.
2. Demonstrate a basic knowledge of cell structure, organelles and cellular processes.
3. Demonstrate a basic knowledge of the anatomy and physiology of human organs and organ systems.
4. Demonstrate an understanding of the impact of evolutionary forces on the human organism.
5. Demonstrate an understanding of the ecological context of humans.
6. Demonstrate an understanding of the impact of nutrients on human physiology.
7. Demonstrate an understanding of the interactions of exercise and human physiology.
8. Demonstrate an understanding of scientific processes, including inductive and deductive reasoning, formulation of hypotheses and experimental design.
9. Demonstrate an understanding of research methodologies and the relative value of information obtained from experiments involving observation, correlation and examination of cause/effect relationships.
10. Know and execute state-of-the-art laboratory techniques.
11. Analyze and interpret scientific information.
12. Demonstrate an appreciation for the ethical and social dimensions of science, as well as weaknesses/limitations and assumptions of science as practiced in the US.
13. Demonstrate the awareness, understanding and skills necessary to work in a diverse world.