# HEOC-100: BASIC ANATOMY & PHYSIOLOGY

**Effective Term**
Fall 2026

**CC Approval**
11/07/2025

**AS Approval**
11/13/2025

**BOT Approval**
11/20/2025

**COCI Approval**
03/03/2026

## SECTION A - Course Data Elements

**CB04 Credit Status**
Credit - Degree Applicable

**Discipline**

| Minimum Qualifications | And/Or |
|---|---|
| Health (Master's Degree) | Or |
| Biological Sciences (Master's Degree) | Or |
| Nursing (Master's Degree) | Or |
| Health Services Director/Health Services Coordinator/College Nurse (Master's Degree) | Or |
| Physical Education (Master's Degree) | Or |
| Physical Sciences (Master's Degree) | Or |
| Kinesiology (Master's Degree) | Or |
| Dietetics/Nutritional Science (Master's Degree) | Or |
| Nutritional Science/Dietetics (Master's Degree) | |

**Subject Code**
HEOC - Health Occupations

**Course Number**
100

**Department**
Health Occupations

**Division**
Health Occupations (HEOC)

**Full Course Title**
Basic Anatomy & Physiology

**Short Title**
Basic Anatomy & Physiology

**CB03 TOP Code**
1260.00 - *Health Professions, Transfer Core Curriculum

**CIP Code**
51.0000

**CB08 Basic Skills Status**
NBS - Not Basic Skills

**CB09 SAM Code**
D - Possibly Occupational

**Rationale**
Revise online component to allow permanent online, hybrid vs. emergency only (as done during COVID)

## SECTION B - Course Description

**Catalog Course Description**
Introductory lecture course in Anatomy and Physiology. This course does not have a lab and may not be transferable to a baccalaureate program requiring Human Anatomy/Physiology with a lab. This level course, or equivalent, is required for entrance to the Paramedic Program.

## SECTION C - Conditions on Enrollment

**Open Entry/Open Exit**
No

**Repeatability**
Not Repeatable

**Grading Options**
Letter Grade or Pass/No Pass

**Allow Audit**
Yes

## Requisites

## SECTION D - Course Standards

**Is this course variable unit?**
No

**Units**
3.00

**Lecture Hours**
54.00

**Outside of Class Hours**
108

**Total Contact Hours**
54

**Total Student Hours**
162

## Distance Education Approval

**Is this course offered through Distance Education?**
Yes

**Online Delivery Methods**

| DE Modalities | Permanent or Emergency Only? |
|---|---|
| Entirely Online | Permanent |
| Hybrid | Permanent |

## SECTION E - Course Content

**Student Learning Outcomes**

| | Upon satisfactory completion of the course, students will be able to: |
|---|---|
| 1. | Demonstrate knowledge of human body functions at the cellular level, tissue, organ, and systems levels. |
| 2. | Identify the implications of anatomical and physiological functioning and malfunctioning on human health. |

**Course Objectives**

| | Upon satisfactory completion of the course, students will be able to: |
|---|---|
| 1. | Explain the structure and function of cells. |
| 2. | Describe the chemical reactions that occur in metabolism. |
| 3. | List and describe the location of the four major tissue types. |
| 4. | Explain the balance of water, electrolytes and fluid distribution in compartments of the human body. |
| 5. | Name, compare and diagram the general functions of each organ and organ system. |

**Course Content**

1. Introduction and Overview
2. Cells, Tissues, Organs, Systems
3. Skin
4. Gastrointestinal
5. Musculoskeletal
6. Circulatory
7. Respiratory
8. Endocrine
9. Reproductive
10. Nervous
11. Sensory
12. Urinary
13. Water, Electrolyte and Acid-Base Balance

## Methods of Instruction

**Methods of Instruction**

| Types | Examples of learning activities |
|---|---|
| Activity | Develop a course card to illustrate the musculature of the lower limb. |
| Discussion | Engage in a guided discussion about the vascular system and the path of a blood cell through arteries and veins. |

**Online Adaptation**

| Types | Examples of learning activities |
|---|---|
| Directed Study | Discussion, chat rooms, case studies. |

**Instructor-Initiated Online Contact Types**

Announcements/Bulletin Boards
Chat Rooms
Discussion Boards
E-mail Communication
Telephone Conversations
Video or Teleconferencing

**Student-Initiated Online Contact Types**

Chat Rooms
Discussions
Group Work

**Course design is accessible**

Yes

## Methods of Evaluation

**Methods of Evaluation**

| Types | Examples of classroom assessments |
|---|---|
| Exams/Tests | Midterm, final Exam, multiple choice fill-in short description. |
| Quizzes | Multiple choice fill-in short description. |
| Homework | Labeling anatomical charts. |

## Assignments

**Reading Assignments**

Weekly chapter assignments from textbook (e.g., Chapter 6 -Integumentary System).

**Writing Assignments**

Case study/scenarios from weekly textbook subject matter (e.g., describe basic inflammatory response that occurs during an allergic reaction to pollen).

Weekly online discussion on textbook topics of weekly subject matter assignments. (e.g., why are the lumbar spinal vertebra the largest of the spinal column).

**Outside-of-Class Assignments**

Weekly online discussion on topic of the week from the text and lecture.

## SECTION F - Textbooks and Instructional Materials

**Material Type**

Textbook

**Author**

Cohen, B. and Hull, K.

**Title**

Memmler's Structure & Function of the Human Body

**Edition/Version**

13th

**Publisher**

Jones & Bartlett

**Year**

2019

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## SECTION G - Diversity, Equity and Inclusivity

**How does your course and/or course outline of record reflect strategies for accommodating and engaging diverse student populations, advancing equitable outcomes, and fostering inclusion for all students?**

Provide equitable access to all students interested in entry-level human anatomy course without a lab.

## Course Codes (Admin Only)

**CB00 State ID**

CCC000616213

**CB10 Cooperative Work Experience Status**

N - Is Not Part of a Cooperative Work Experience Education Program

**CB11 Course Classification Status**

Y - Credit Course

**CB13 Special Class Status**
N - The Course is Not an Approved Special Class

**CB23 Funding Agency Category**
Y - Not Applicable (Funding Not Used)

**CB24 Program Course Status**
Program Applicable

**Allow Pass/No Pass**
Yes

**Only Pass/No Pass**
No