

## Physiology

### Department of Physiology and Biophysics

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#### Overview

*\*Not a baccalaureate degree program*

Physiology courses provide students whose majors are in the life and health sciences with an understanding of body functions at the cellular and organ-system levels. A number of courses serve as prerequisites for majors with a healthcare focus. Students whose majors are not directly associated with the health professions are encouraged to take physiology courses as long as students satisfy course prerequisites.

#### **PGY 300: Human Physiology**

**Credits:** 4  
**Semester(s):** Fall, Spring  
**Pre-requisites:** [ANA 113](#) or [ES 207](#) or [CHE 101](#) or [CHE 105](#) or [CHE 107](#) or [CHE 111](#) or [BIO 200](#) with a grade of C  
**Type:** LEC/REC

Functions of the human body; interrelationships of the organ systems as humans respond and adapt to their environment.

#### **PGY 405: Cell & Membrane Physiology**

**Credits:** 4  
**Semester(s):** Spring  
**Pre-requisites:** [BCH 403](#) Or [BIO 201](#) Or [BIO 205](#)  
**Type:** LEC/REC

Contemporary issues of cell structure and function and experimental methods used in modern cell biology research. Lectures concern basic principles and show how these principles are derived from research through reviewing original journal articles.

#### **PGY 412: Applied Physiology**

**Credits:** 2  
**Semester(s):** Spring  
**Pre-requisites:** [PGY 300](#) Or [PGY 451](#) Or [PGY 452](#)  
**Type:** LEC

Physiological responses of the body to the internal stresses caused by disease.

#### **PGY 451: Human Physiology I**

**Credits:** 3  
**Semester(s):** Fall  
**Pre-requisites:** [CHE 101](#) or [CHE 202](#) [CHE 107](#) or [CHE 111](#) or

[BIO 200](#) or [BIO 201](#) with a grade of C or better.  
**Type:** LEC

First semester of a two-semester lecture course in human body functions.

#### **PGY 452: Human Physiology II**

**Credits:** 3  
**Semester(s):** Spring  
**Pre-requisites:** [PGY 451](#) Or [PGY 551](#)  
**Type:** LEC

Second semester of a two-semester lecture course in human body functions.

#### **PGY 495: Supervised Teaching**

**Credits:** 1-3  
**Type:** TUT

*The content of this course is variable and therefore it is repeatable for credit. The [University Grade Repeat Policy](#) does not apply.*

Undergraduate teaching assistants will work in pairs to facilitate a [PGY 300](#) review session for 2 hours every other week. Includes a review of recorded lectures, answering students questions, and providing clear explanation of class material. Other duties include facilitating a class blog on Blackboard and assisting with logistical support on exam days.

#### **PGY 498: Physiology Research**

**Credits:** 1-8  
**Semester(s):** Fall, Spring  
**Type:** LAB

*The content of this course is variable and therefore it is repeatable for credit. The [University Grade Repeat Policy](#) does not apply.*

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Students participate in original investigative work that includes both laboratory work and literature searching.

### **PGY 499: Independent Study**

**Credits:** 1-8

**Semester(s):** Fall, Spring

**Type:** TUT

*The content of this course is variable and therefore it is repeatable for credit. The [University Grade Repeat Policy](#) does not apply.*

Undergraduate research tutorial.