

# BIOLOGY FOR HEALTH SCIENCES

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SPS Certificate website: [sps.northwestern.edu/undergraduate-certificate/biology-health-sciences/](https://sps.northwestern.edu/undergraduate-certificate/biology-health-sciences/) (<https://sps.northwestern.edu/undergraduate-certificate/biology-health-sciences/>)

The Biology for Health Sciences certificate provides students with practical skills to examine how the human body works, why it functions the way it does, and how biology connects to real-world healthcare challenges.

## Certificate Offered

- Biology for Health Sciences, Certificate (<https://catalogs.northwestern.edu/sps/certificates/post-baccalaureate/biology-health-sciences/biology-health-sciences-certificate/>)

### **BIOL\_SCI 170-DL Concepts of Biology (1 Unit)**

General biological sciences introduction. Topics include evolution, biomolecules, cell biology, genetics, population biology, and the relationship between structure and function in organisms. The course is geared toward students with an interest in the topic but without a background in biological sciences.

### **BIOL\_SCI 217-DL Introduction to Human Physiology (1 Unit)**

This course offers a foundational overview of human physiology, examining how the body functions at the tissue, organ, and system levels. Emphasis is placed on homeostatic regulation and the interdependence of major organ systems, including how physiological processes are influenced by internal and external factors. Topics include the nervous, cardiovascular, respiratory, and renal systems. Designed for students pursuing non-clinical roles in health sciences.

### **BIOL\_SCI 312-DL The Evolutionary Biology of Human Anatomy, Health, and Disease (1 Unit)**

Key features of human anatomy, health and disease from an evolutionary perspective.

### **BIOL\_SCI 313-DL Human Anatomy (1 Unit)**

This is an online course on human anatomy, focusing on morphology and function. It follows both a regional and systems approach. All course content, activities, and assessments will be online learning activities and assessments. The course will also have a broad emphasis on clinical application that is applicable to all health care professions. The course covers gross anatomy of the human body; therefore, images of human cadavers will be presented in your textbook, as well as in other course resources. Readings are assigned from the Marieb, Wilhelm and Mallatt text.

**Prerequisite:** BIOL\_SCI 170-DL, or equivalent course.