



## CWU Biological Sciences Anatomy and Physiology (A&P) 2022-2023 Course Offerings

Are you looking for a series of courses in anatomy and physiology that will give you a solid understanding of human/animal form and function and will satisfy the requirements and recommendations of most professional healthcare programs?\* If so, you should be aware of the **three sequences** described below. (\*Be sure to check with those professional healthcare programs to which you plan to apply.)

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### **Sequence 1: Human Anatomy and Physiology I, II (BIOL 355, 356)**

Fall 2022, Winter 2023, 5 cr. each (both courses are also usually offered during Summer Session)

This two-course sequence is designed primarily for Biology majors. The structure and function of all the major organ systems will be covered. Three hours lecture and four hours laboratory per week. Prerequisite: BIOL 183. Students should not take BIOL 355 unless they intend to take BIOL 356. A student cannot receive credit for both BIOL 355/356 and BIOL 455 in the major. A student cannot receive credit for both BIOL 355 and BIOL 305.

Instructors: Dr. Wayne Quirk and Dr. Jason Irwin

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### **Sequence 2: Human Anatomy and Physiology for Health-Related Majors I, II (BIOL 305, 306)**

Winter 2023, Spring 2023, 5 cr. each

This two course sequence is designed primarily for students in majors other than Biology who are hoping to enter the health care fields. The structure and function of all the major organ systems will be covered. Four hours lecture and two hours laboratory per week. Prerequisites: EXSC 351 and 351LAB; or BIOL 220. Students should not take BIOL 305 unless they intend to take BIOL 306. Cannot be used within a Biology major.

Instructors: Dr. Sarah Oppelt and Dr. Fabiola Serra Fuertes

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**Sequence 3: Integrative Anatomy and Physiology (BIOL 353, 455)** – while these courses cover human anatomy and physiology, a broader vertebrate and animal perspective allows for an evolutionary perspective.

#### **Integrative Anatomy (BIOL 353)** – Fall Quarter 2022, 6 cr.

This course will expose you to the study of comparative vertebrate anatomy, human anatomy, and embryology in an evolutionary context. This lab-intensive course will include dissections and prosected human cadavers. You will gain the skills (dissection, three dimensional visualization), the language (directional terms, roots, derivations), and the perspective (tissue, gross, developmental, evolutionary) to better understand human and vertebrate form and function and to apply that understanding to your future studies. Prerequisite: BIOL 183; or EXSC 350 and EXSC 350LAB.

Instructor: Dr. Jason Irwin

#### **Integrative Animal Physiology (BIOL 455)** – Spring Quarter 2023, 5 cr.

This course takes a broad perspective on how animals, including humans, function. We consider physiological adaptations from the molecular and cellular levels up to the level of whole organism - and even consider their ecological implications. Laboratory exercises are used to illustrate the concepts covered in the lecture. A major research project in animal physiology of your own design is a significant part of the course. Prerequisite: BIOL 183 and BIOL 213.

Instructor: Dr. Blaise Dondji

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For further information, contact:

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