

University of Indianapolis
 Summer Sessions I & II 2018
 BIOL 560 HUMAN FUNCTIONAL AND EVOLUTIONARY ANATOMY I
 BIOL 560 HUMAN FUNCTIONAL AND EVOLUTIONARY ANATOMY II
 Face-to-Face
 June 11 to July 26, 2018
 Monday through Thursday - 8:30 AM – 11:30 AM
 6 credits

Instructors:

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Course description: A study of human anatomical adaptations from an evolutionary and comparative perspective. This semester will emphasize the musculoskeletal systems and body mechanics.

Course objectives: Students will become familiar with the major structures of the human body, emphasizing the unique aspects of our species in an evolutionary perspective.

Course format: The course is taught in a traditional laboratory and classroom format. Supplementary materials will be placed on ACE under BIOL 560.

Prerequisite: Bachelor's Degree

Week 1 June 11-14	Musculoskeletal anatomy: Head and upper limb. Laboratory materials: osteology collection, prosected cadaver.
Week 2 June 18-21	Musculoskeletal anatomy: Lower limb and gait. Laboratory materials: osteology collection, prosected cadaver.
Week 3 June 25-28	Biomechanics. Skeletal biology. Laboratory materials: osteology collection.
Week 4 July 2-3	<i>(Note shortened week for July 4 holiday.)</i> Skeletal analysis. Laboratory materials: osteology collection
Week 5 July 9-12	Anatomy and histology of visceral organ systems. Laboratory materials: histological specimens, prosected cadaver.
Week 6	Anatomy and histology of visceral organ systems.

July 16-19	Laboratory materials: histological specimens, prosected cadaver.
Week 7	The nervous system.
July 23-26	Laboratory materials: Prepared specimens.

LABORATORY AND MEDICAL ISSUES (IMPORTANT!)

In the laboratory you will be exposed to chemicals that have been determined to be safe in the existing ventilation system. Some individuals have greater sensitivities and may experience such symptoms as a skin rash or headaches. If you believe you are reacting to chemicals in the lab, please speak with your instructor. You should also consult with your physician.

If you are pregnant or become pregnant during the semester, please notify your instructor **and** consult your physician about participation in the lab.

If you are injured in the lab, notify an instructor. First aid materials are freely available. Small cuts and nicks are common: report any bloodshed.

Be aware that this course will involve the viewing and handling of human cadaver material. You are advised to wear a lab coat to keep your clothing clean. Gloves will be provided. We do not permit casual visitors into the anatomy lab. Picture-taking is not allowed.

POLICY ON DISABILITIES

The University of Indianapolis respects the Americans with Disabilities Act. Students with a certified disability must register with the Services for Students with Disabilities office (SSD) in Schwitzer Center 206 (317-788-6153 / www.uindy.edu/ssd) for disability verification and for determination of reasonable academic accommodations. If you have a documented disability that requires accommodation, please talk with us about it as soon as possible and we will work with you.

TEXTBOOKS

Langdon, JH 2005. *The Human Strategy: An Evolutionary Perspective on Human Anatomy*. Oxford University Press.

Vogel, S 2000. *Cats Paws and Catapults: Mechanical Worlds of Nature and People*. Norton
Selected articles and online readings.

There are numerous textbooks, atlases, and supplementary materials on human anatomy at both graduate and undergraduate levels. If you are interested, please ask for recommendations.

EXPECTATIONS AND GRADING

This is an accelerated course; regular attendance is expected.

Grading will be based on a take-home essay exam, a research project and class presentations.

ACADEMIC MISCONDUCT

The university policy on academic misconduct, as stated in the student handbook, is in effect. Misconduct includes both overt cheating and helping another student to cheat. It is assumed you have read and understand the policy. Ask us if you desire clarification.