Human Physiology Course Syllabus

Course Information

Course Prefix and Number: BIOS-3755
Course Title: Human Physiology
Credit Hours: 3
Instructor: Boris I. Prilutsky (boris.prilutsky@biosci.gatech.edu)

Course Description

Human Physiology will use a systems approach to provide a foundation for understanding the function of anatomical structures comprising the human body. Students will explore the functions and adaptations of organ systems with emphasis on the neuromuscular, endocrine, cardiorespiratory, gastrointestinal and urinary systems. The major theme will focus upon homeostatic mechanisms integrating physiological responses (from cell signaling to whole organism) to maintain human health and well-being.

Course Learning Outcomes

To introduce and establish an organizational framework for any future study in human physiology. Upon completion of this course, students will be able to demonstrate understanding of the following topics:

- A working knowledge of terminology in medical physiology
- Fundamental principles of normal function of tissues and organ systems of the human body
- How physiological function follows anatomical form
- How different physiological systems provide homeostasis for the human body

Required Course Materials

"Vander's Human Physiology", 16th Ed. (or 15th Ed.) by Widmaier, Raff, and Strang
Publisher: McGraw-Hill. ISBN10: 1264450451 | ISBN13: 9781264450459

Grading Policy

A = 90-100%
B = 80-89%
C = 70-79%
D = 60-69%
F = <60%

Attendance Policy

The course is offered in the on-campus format, and students are expected to attend lectures.

Academic and Research Honesty/Integrity Statement

Georgia Tech aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards. Review the Student Code of Conduct and the Academic Honor Code, especially Appendix A: Graduate Addendum to the Academic Honor Code.

Students are expected to perform course assignments in an ethical and responsible manner. Any student suspected of cheating or plagiarizing on a quiz, exam, or assignment will be reported to the Office of Student Integrity, who will investigate the incident and identify the appropriate penalty for violations.

Allegations of scientific or scholarly misconduct are handled in accordance with the procedures outlined by the Policy for Responding to Allegations of Scientific or Other Scholarly Misconduct.

Core IMPACTS

Not applicable

Accommodations for Students with Disabilities

If you are a student with learning needs that require special accommodation, contact the Office of Disability Services as soon as possible to make an appointment to discuss your special needs and to obtain an accommodations letter. Please also e-mail me as soon as possible in order to set up a time to discuss your learning needs.

Student-Faculty Expectations

At Georgia Tech, we believe that it is important to strive for an atmosphere of mutual respect, acknowledgement, and responsibility between faculty members and the student body. The Student-Faculty Expectations articulates some basic expectations that you can have of me and that I have of you. Additional information for research-related work is given in The Expectations of Advisors and Advisees. In the end, simple respect for knowledge, hard work, and cordial interactions will help build the environment we seek. Therefore, I encourage you to remain committed to the ideals of Georgia Tech while in this class.

Campus Resources

The Undergraduate Research Opportunities Program (UROP) provides resources and support for undergraduate research students and their mentors. Visit https://undergradresearch.gatech.edu/ or contact UROP at urop@gatech.edu for more information.