

PHYSIOLOGY (PHS) (PHS)

PHS 550 Medical Physiology 8 cr

This course includes lectures and labs which introduce the student to the basic functions of the heart, circulation, lung, and kidney, as well as the endocrine, nervous, and gastrointestinal systems. Fundamental mechanisms are stressed with the intent of providing the student with the basic knowledge of organ function necessary for the understanding and treatment of disease. Overall integrated response of body to various stresses is discussed in detail.

PHS 556 Literature Reports 1 cr

Students and faculty participate in a supervised reading of the current literature and meet periodically to interact in a discussion of selected article or topic. The goal of this course is to maintain the faculty's and students' level of information at a "state of the art" in both methods and theory in the discipline and to develop critical skills in reviewing the literature. Student presentation is required to receive credit.

PHS 557 Dir St Physiology 1-6 cr

Students participate in research under the direction of a graduate faculty member. Student may pursue independent research or participate in a literature project. This course should be taken by students who have completed their lab rotations, but have not yet submitted a formal research project.

PHS 590 Special Topics - 1-3 cr

Each course provides in-depth tutorial exposure to specific areas in the discipline. Student and/or faculty presentations followed by group discussions (usually in the Socratic mode), examine the subject matter in an area of current interest either to one student or to a group of students. Credit and title are arranged with an individual faculty member.

PHS 651 Adv Cardiovascular Physiology 5 cr

This is an advanced course covering cardiac function and metabolism, peripheral circulation, and microcirculation. The objective is to provide the student with a thorough understanding of cardiovascular physiology at both the organ and cellular level.

PHS 654 Transport Physiology Barriers 2 cr

This course is designed to present a detailed analysis of physiological membranes and the physical principles governing the movement of solute and water across these barriers.

PHS 656 Cell Signaling Seminar 1 cr

Students present a research topic for discussion before members of the department. The presentations are usually scheduled on a rotational basis. The student may present research data for critique by the faculty.

PHS 799 Research-Dissertation 1-6 cr

Independent research by the student under the sponsorship of the graduate faculty in individual departments in the Basic Medical Sciences. Students are required to submit a research project description form before enrolling in this course. Progress reports of the work accomplished are required every six months.