

INTEGRATIVE PHYSIOLOGY & MOLECULAR MEDICINE (IPMM)

IPMM 801 GRADUATE PHYSIOLOGY I 4 Credit Hours

Part 1 of a two part graduate physiology course drawn in part from the UNMC medical school curriculum. Lectures will cover circulatory, respiratory, renal, neurological and muscle physiology. This course can be taken alone or with Graduate Physiology II to provide a comprehensive understanding of human physiology.

Typically Offered: SPRING

IPMM 802 GRADUATE PHYSIOLOGY II 3 Credit Hours

Part 2 of a two part graduate physiology course drawn in part from UNMC medical school curriculum. Lectures cover gastrointestinal, endocrine, reproductive and sensory physiology. This course can be taken alone or with Graduate Physiology 1 to provide a comprehensive understanding of human physiology.

Typically Offered: FALL

IPMM 814 SCIENTIFIC WRITING 2 Credit Hours

A lecture/discussion-based course focusing on the writing skills needed to prepare each section of a manuscript for submission to scientific journals, as well as figure design, use of reference software and responding to reviewer critiques.

Prerequisite: Second or higher year of graduate study.

Cross List: PHAR 814.

Typically Offered: FALL/SPR

IPMM 815 SCIENTIFIC COMMUNICATION 2 Credit Hours

A lecture/ practicum-based course that will develop the communication skills needed to present various forms of oral scientific presentations including full-length and abbreviated seminars, elevator pitches, chalk talks, posters, and media/ lay public communication. Preparation of multimedia including data presentation slides, posters, videos, and other forms of technology will also be covered. Pre-reqs: Professional or graduate student in their 2nd year or higher of their education.

Typically Offered: FALL/SPR

IPMM 817 APPLIED SCIENTIFIC WRITING 1 Credit Hour

This practicum develops the writing skills needed to prepare each section of a manuscript for submission to a scientific journal, as well as figure design, use of reference software and responding to reviewer critiques. Students must have sufficient research data to support a preliminary manuscript, which will be constructed through completion of individualized assignments throughout the course.

Prerequisite: completed MEP 810 (Basic Concepts of Scientific Writing), and permission of instructor.

Typically Offered: FALL/SPR

IPMM 896 RESEARCH OTHER THAN THESIS 1-9 Credit Hours

Student research that is clearly distinct from ongoing or planned thesis/ dissertation work, or research/lab rotations performed prior to selecting a permanent Advisor or Supervisor.

Typically Offered: FALL/SP/SU

IPMM 916 CARDIOPULMONARY FUNCTION IN HEALTH & DISEASE 2

Credit Hours

A lecture/discussion-based course concerned with current advances in the pathophysiology of cardiovascular and pulmonary diseases such as heart failure and hypertension.

Prerequisite: CIP 806 (or equivalent; see instructor).

Typically Offered: FALL

IPMM 930 PHYSIOLOGY & PATHOPHYSIOLOGY OF THE KIDNEY 2 Credit Hours

Integrative, cellular and molecular mechanisms of renal function, with emphasis on the alterations accompanying renal disease.

Prerequisite: PHYS 806 or equivalent; see instructor

Typically Offered: SPRING

IPMM 970 SEMINAR 1 Credit Hour

This course provides students with experience in presenting their own research in the form of abstract-based 10 min oral presentations, as well critical analysis of recent publications in the biomedical sciences.

Typically Offered: FALL/SPR

IPMM 999 DOCTORAL DISSERTATION 1-15 Credit Hours

Independent student research related to the PhD dissertation. This course may be utilized before or after successful completion of the comprehensive exam.

Typically Offered: FALL/SP/SU