PSL 5010 Individual Research I Cr. 2-5
Direct participation in laboratory research in the physiological sciences under the supervision of a departmental faculty advisor. Introduction to experimental protocol and current related scientific literature. Offered Every Term. Repeatable for 5 Credits

PSL 5680 Basic Endocrinology Cr. 3
Basic description of the human endocrine system, the endocrine control of several physiologic processes (growth, development, metabolism and reproduction), and a description of common endocrine disorders. Offered Fall. Prerequisite: BIO 3200, with a minimum grade of C
Equivalent: BIO 5680

PSL 6010 Physiology of Exercise II Cr. 3
Metabolic, neuromuscular, cardiovascular, and respiratory adjustments to acute and chronic exercise in health and disease, including body composition and weight control, nutritional considerations, and the effects of different environments on exercise performance. Offered Fall. Prerequisite: KIN 3570, with a minimum grade of C
Equivalent: KIN 6310, PT 6310

PSL 6300 Biotechnology: Techniques and Applications Cr. 2
Various biotechnical methodologies currently used in research and industry; application of these methodologies in scientific inquiries. Offered Fall. Prerequisites: PSL 6310 and KIN 6310

PSL 6310 Biotechnology: Techniques and Applications Lab Cr. 2-5
Students choose one of the biotechnology techniques discussed in PSL 6300 and spend the semester in an active research laboratory learning the practice of the technique through hands-on experience. Offered Winter. Prerequisites: PSL 6300 with a minimum grade of C

PSL 7010 Basic Graduate Physiology Lecture I Cr. 4
Introduction to basic human physiology. Offered Fall. Prerequisites: PSL 7006 with a minimum grade of C

PSL 7011 Basic Integrative Graduate Physiology I Cr. 4
Offered Fall. Prerequisite: PSL 7010 with a minimum grade of C

PSL 7020 Basic Graduate Physiology Laboratory I Cr. 2
Introductory laboratory exercises to measure cell and membrane function; neuronal activity; electrophysiology; and hormonal actions. Offered Fall. Prerequisites: PSL 7010 with a minimum grade of C

PSL 7030 Basic Graduate Physiology Lecture II Cr. 4
Functional mechanisms of the human body. Offered Winter. Prerequisites: PSL 7010 with a minimum grade of C

PSL 7031 Basic Integrative Graduate Physiology II Cr. 4
Offered Winter. Prerequisites: PSL 7010 with a minimum grade of C

PSL 7040 Basic Graduate Physiology Laboratory II Cr. 2
Experimental physiology of organ systems. Offered Winter. Prerequisite: PSL 7030

PSL 7060 Current Literature in Physiology Cr. 1
Students are required to present published papers at least once each semester, and must attend all class meetings. Offered Yearly. Prerequisites: PSL 7010 with a minimum grade of C

PSL 7215 Nanobiotechnology Cr. 3
Introduction to interdisciplinary research field of nanobiotechnology, at the interphase of biology, chemistry, and physics; specific properties of nanoscale objects. Offered Winter. Equivalent: PHY 7215
PSL 7730 Reproductive Sciences: Teratology Cr. 3
Principles of the science of birth defects; focus on impact of environmental poisons, medicines, and drugs of abuse on developing germ cells, embryos and fetuses. Roles of pharmacological/toxicological, physiological (maternal, placental, and fetal), genetic and nutritional factors in the teratogenic response are examined. Texts and current readings. Offered Biannually (Fall).

PSL 7775 Current Research Topics in Reproductive Science Cr. 1
Lectures covering current topics in reproductive biology, health, and medicine. Offered Fall.

PSL 7825 Membrane Physiology: Protein Transport, Lipid Metabolism and Human Diseases Cr. 2
Covers the basic concepts of membrane transport in the mammalian secretory pathway with an emphasis on the dysregulation of key transport steps and the defective mutations of key regulators which lead to human diseases (e.g. neurodegenerative diseases, diabetes and coronary heart diseases). Offered Fall.

PSL 7880 Special Problems in Physiology Cr. 1-8
Topics individually arranged with faculty. Offered Every Term. Repeatable for 998.99 Credits

PSL 7890 Seminar Cr. 1
For graduate students in physiology. Participation in weekly departmental seminars. Offered Fall, Winter. Repeatable for 6 Credits

PSL 7910 Molecular Male Reproduction and Chromatin Cr. 1
Students write topic-specific essays. Offered Fall.

PSL 7996 Arranged Research Cr. 1-15
Graduate level experiences in research techniques. Special research topics in specified areas arranged with individual faculty member. Offered Every Term. Repeatable for 15 Credits

PSL 8999 Master's Thesis Research and Direction Cr. 1-8
Offered Every Term.

PSL 9990 Pre-Doctoral Candidacy Research Cr. 1-8
Research in preparation for doctoral dissertation. Offered Every Term. Repeatable for 12 Credits

PSL 9991 Doctoral Candidate Status I: Dissertation Research and Direction Cr. 7.5
Offered Every Term.

PSL 9992 Doctoral Candidate Status II: Dissertation Research and Direction Cr. 7.5
Offered Every Term. Prerequisite: PSL 9991, with a minimum grade of S

PSL 9993 Doctoral Candidate Status III: Dissertation Research and Direction Cr. 7.5
Offered Every Term. Prerequisite: PSL 9992, with a minimum grade of S

PSL 9994 Doctoral Candidate Status IV: Dissertation Research and Direction Cr. 7.5
Offered Every Term. Prerequisite: PSL 9993, with a minimum grade of S

PSL 9995 Candidate Maintenance Status: Doctoral Dissertation Research and Direction Cr. 0
Offered Every Term. Repeatable for 0 Credits