PHC - PHARMACOLOGY

PHC 5030 Individual Research in Pharmacology Cr. 2-5
Direct participation in laboratory research into the ways drugs affect cell processes, under the supervision of a departmental faculty advisor. Introduction to experimental protocol and current related scientific literature. Offered for graduate credit only. Offered Every Term.
Restriction(s): Enrollment is limited to Graduate level students.

PHC 6500 Drugs and the Addictive Process Cr. 3
Introduction to general principles of drug action; specific pharmacologic, toxicologic, and pathologic effects of abused drugs; bio-psycho-social bases for addiction. Offered Yearly.
Restriction(s): Enrollment is limited to Graduate level students.

PHC 7010 Pharmacology Lecture Cr. 4
Introductory presentation of drug actions on living tissue. Offered Winter.
Restriction(s): Enrollment is limited to Graduate level students.

PHC 7021 Advanced Health Assessment and Clinical Diagnosis Cr. 3
Advanced systematic focus on health assessment, anatomical and physical limitations, and impact on anesthesia practice. Offered Fall.
Restriction(s): Enrollment is limited to Graduate level students.

PHC 7031 Advanced Pharmacology I Cr. 3
Prepares students with in-depth knowledge and understanding of the Pharmacokinetics and Pharmacodynamics for the nurse anesthetist. Offered Fall.
Restriction(s): Enrollment is limited to Graduate level students.
Course Material Fees: $10
Equivalent: AN 7010

PHC 7032 Advanced Pharmacology II Cr. 3
Prepares students with in-depth knowledge and understanding of the Pharmacokinetics and Pharmacodynamics for the anesthetist. Offered Winter.
Restriction(s): Enrollment is limited to Graduate level students.
Course Material Fees: $15
Equivalent: AN 7100

PHC 7221 Advanced Physiology Cr. 4
Examine normal physiology with emphasis on the respiratory, renal, cardiovascular, neurological, endocrine, liver functions and and associated disease. Offered Fall.
Restriction(s): Enrollment is limited to Graduate level students.
Equivalent: AN 7220

PHC 7241 Advanced Physiology and Pathophysiology I Cr. 3
Advanced knowledge in physiology; in-depth analysis of disease processes; correlation of pathophysiology, pharmacology, and advanced principles of anesthesia care. Offered Winter.
Restriction(s): Enrollment is limited to Graduate level students.
Course Material Fees: $10
Equivalent: AN 7240

PHC 7242 Advanced Physiology and Pathophysiology II Cr. 3
An in-depth assessment human physiology, and disease processes to include analysis of cellular structure and functions of the total body system. Offered Spring/Summer.
Restriction(s): Enrollment is limited to Graduate level students.
Equivalent: AN 7241

PHC 7410 Principles of Toxicology Cr. 3
Basic concepts and principles of toxicology, including toxicity of major classes of chemicals (pesticides, solvents, metals) and organ systems (renal, immune, digestive, neuro and respiratory) affected. Offered Fall.
Restriction(s): Enrollment is limited to Graduate level students.
Equivalent: BIO 7011

PHC 7501 Chemistry and Physics for the Anesthetist Cr. 2
Analysis and principles of chemistry and physics as applied to anesthesia. Offered Fall.
Restriction(s): Enrollment is limited to Graduate level students.

PHC 7500 Advanced Topics in Pharmacology Cr. 1-6
Modules of instruction in sharply-defined areas of current research in pharmacology and related disciplines. Each module will cover fundamental concepts, essential knowledge base, research protocols and techniques, and future issues. Offered Every Term.
Prerequisite: PHC 7010 with a minimum grade of C
Restriction(s): Enrollment is limited to Graduate level students.
Repeatable for 6 Credits

PHC 7500 Advanced Topics in Pharmacology Cr. 1-6
Modules of instruction in sharply-defined areas of current research in pharmacology and related disciplines. Each module will cover fundamental concepts, essential knowledge base, research protocols and techniques, and future issues. Offered Every Term.
Prerequisite: PHC 7010 with a minimum grade of C
Restriction(s): Enrollment is limited to Graduate level students.
Repeatable for 6 Credits

PHC 7700 Recent Developments in Pharmacology Cr. 1-4
Selected topics and readings in pharmacology. Offered Every Term.
Restriction(s): Enrollment is limited to Graduate level students.
Repeatable for 12 Credits

PHC 7710 Individual Studies in Pharmacology Cr. 1-8
Offered Every Term.
Restriction(s): Enrollment is limited to students with a major in Pharmacology; enrollment is limited to Graduate level students; enrollment limited to students in a Doctor of Philosophy or Master of Science degrees.
Repeatable for 8 Credits

PHC 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 Every Other Fall.
Restriction(s): Enrollment is limited to Graduate level students.
Equivalent: PSL 7730

PHC 7880 Anesthesia Seminar Cr. 1
Current developments in concepts and theories of nurse anesthesia. Offered Fall, Winter.
Restriction(s): Enrollment is limited to Graduate level students.
Equivalent: AN 7880
Repeatable for 4 Credits
PHC 7890 Seminar Cr. 1
Assigned readings and student presentation; faculty and outside speakers. Offered Every Term.
Restriction(s): Enrollment is limited to students with a major in Pharmacology; enrollment is limited to Graduate level students; enrollment limited to students in a Doctor of Philosophy or Master of Science degrees.
Repeatable for 12 Credits

PHC 7902 Ethics and Health Care Cr. 3
Basic understanding of ethical theories and practice, and new challenges encountered in health care settings. Offered Fall.
Restriction(s): Enrollment is limited to Graduate level students.
Equivalent: AN 7902

PHC 7996 Research Cr. 1-20
Special research topics in specified areas arranged with individual faculty members. Offered Every Term.
Restriction(s): Enrollment is limited to Graduate level students.
Repeatable for 30 Credits

PHC 8888 Survey of Research at the Chemistry Biology Interface Cr. 3
The Chemistry Biology Interface course will teach students how to apply chemical approaches to study complete biological processes. It will commence with a basic overview of the biochemistry of biomolecules. Next, complex biological processes related to various diseases will be highlighted by introducing cell biology, model cells and organisms, and disease mechanisms. Finally, the course will highlight contemporary examples of how chemical methods are used to answer complex biological questions to show the value and innovation available by taking a multidisciplinary approach. The focus will be on development of skill sets that are applicable for research at the chemistry biology interface, rigor and transparency in data collection and analysis, and identification of cross-disciplinary research at Wayne State. Offered Winter.
Restriction(s): Enrollment is limited to Graduate level students.
Equivalent: BIO 8888, CHM 8888, PSC 8888, PSL 8888

PHC 8999 Master's Thesis Research and Direction Cr. 1-8
Offered Every Term.
Restriction(s): Enrollment limited to students with a class of Candidate Masters; enrollment is limited to Graduate level students.
Repeatable for 8 Credits

PHC 9990 Pre-Doctoral Candidacy Research Cr. 1-8
Research in preparation for doctoral dissertation. Offered Every Term.
Restriction(s): Enrollment is limited to Graduate level students.

PHC 9991 Doctoral Candidate Status I: Dissertation Research and Direction Cr. 7.5
Offered Every Term.
Restriction(s): Enrollment is limited to Graduate level students.
Prerequisite: PHC 9991 with a minimum grade of S
Restriction(s): Enrollment is limited to Graduate level students.

PHC 9992 Doctoral Candidate Status II: Dissertation Research and Direction Cr. 7.5
Offered Every Term.
Prerequisite: PHC 9992 with a minimum grade of S
Restriction(s): Enrollment is limited to Graduate level students.

PHC 9993 Doctoral Candidate Status III: Dissertation Research and Direction Cr. 7.5
Offered Every Term.
Prerequisite: PHC 9993 with a minimum grade of S
Restriction(s): Enrollment is limited to Graduate level students.

PHC 9994 Doctoral Candidate Status IV: Dissertation Research and Direction Cr. 7.5
Offered Every Term.
Prerequisite: PHC 9994 with a minimum grade of S
Restriction(s): Enrollment is limited to Graduate level students.

PHC 9995 Candidate Maintenance Status: Doctoral Dissertation Research and Direction Cr. 0
Offered Every Term.
Restriction(s): Enrollment is limited to Graduate level students.
Course Material Fees: $402.01
Repeatable for 0 Credits