PSC - PHARMACEUTICAL SCIENCES

PSC 3110 Pharmaceutical Biochemistry Cr. 3
Survey of biochemistry for pharmacy students, metabolism, and drug effects in the maintenance of normal human biochemistry and homeostasis. Offered Fall.

PSC 4115 Pharmaceutics I Cr. 3
Introduction to pure drug substance formulation into dosage forms and the principles and mechanisms for developing dosage forms for safe and effective use in patients. Offered Fall.

PSC 4125 Introduction to Pharmaceutical Sciences: Medicinal Chemistry / Pharmacology / Immunology Cr. 3
Introduction to medicinal chemistry, pharmacology and biotechnology with a focus on drug discovery and drug action. Offered Fall.

PSC 4215 Pharmaceutics II Cr. 2
Basic pharmacokinetics: principles of drug administration, distribution, metabolism and excretion (ADME) using different dosage forms, and basics of administration routes. Offered Winter.

PSC 4225 Autonomic Pharmacology Cr. 2
The principles of autonomic pharmacology integrated into an understanding of the functioning of the autonomic system; the major target organs and the physiological effects of agonists and antagonists elicited through autonomic receptor subtypes. Offered Winter.

Prerequisite: PSC 4125.

PSC 5115 Pharmacokinetics Cr. 2
Conceptual knowledge-base and practical calculation applications of pharmacokinetic principles. Offered Fall.

PSC 5600 Drugs of Abuse Cr. 2
Pharmacology and toxicology, both clinical and animal, associated with recreationally-used agents; treatment of acute and chronic problems associated with these agents; concept of chronic drug administration and abuse as disease state. Offered Yearly.

PSC 5870 Seminar in Pharmacology Cr. 1
Reports and discussions on current literature and recent advances in the field. Assigned topics presented by students. Offered for undergraduate credit only. Offered Every Term.

Repeatable for 2 Credits

PSC 5990 Directed Study in Medicinal Chemistry Cr. 2
Offered for undergraduate credit only. Offered Every Term.

PSC 5991 Directed Study in Pharmaceutics Cr. 2
Offered for undergraduate credit only. Offered Every Term.

PSC 5992 Directed Study in Pharmacology Cr. 2
Offered for undergraduate credit only. Offered Every Term.

PSC 6285 Pharmacy Seminar Cr. 1
Presentations on topics of current interest on basic science problems relevant to the major discipline of pharmaceutical sciences. Offered Winter.

Equivalent: PSC 7840

PSC 6800 Introduction to Research Cr. 2
Fundamental concepts and resources for responsible conduct of biomedical research and advancing scientific professional development, and data analysis and statistics. Offered Yearly.

PSC 6890 Toxicology and Adverse Drug Reactions Cr. 3
Study of toxicology and adverse drug reactions including metabolism, hypersensitivity, carcinogenicity, drug-drug interactions, and other factors hazardous to human health. Offered Yearly.

PSC 6910 Pharmaceutical Waste: Environmental Impact and Management Cr. 2-3
Course designed for advanced professional and graduate students with sufficient chemistry and/or biological sciences background who are interested in the environmental impact, management, and regulation of waste pharmaceuticals as emerging issues. Offered Spring/Summer. Equivalent: CE 6910

PSC 7010 Advanced Drug Action and Safety I Cr. 3
Survey of advanced research topics in pharmacology. Offered Biannually (Fall).

PSC 7020 Advanced Drug Discovery I Cr. 3
Survey of advanced research topics in medicinal chemistry. Offered Biannually (Fall).

PSC 7040 Advanced Drug Formulation and Delivery I Cr. 3
Survey of advanced research topics in pharmaceutics. Offered Biannually (Winter).

PSC 7160 Advanced Practice Basic Pharmaceutical Sciences Elective Cr. 3-6
Eight-week rotation in basic science-oriented research laboratory. Offered Irregularly. Repeatable for 6 Credits

PSC 7600 Drugs of Abuse: Advanced Cr. 2
Pharmacology and toxicology, both clinical and animal, associated with recreationally-used agents; treatment of acute and chronic problems associated with these agents; concept of chronic drug administration and abuse as disease state. Offered Yearly.

PSC 7700 Advanced Drug Action and Safety II Cr. 2
Continuing survey of modern research topics in pharmacology. Offered Biannually (Winter).

PSC 7710 Advanced Drug Discovery II Cr. 2
Continuing survey of advanced research topics in medicinal chemistry. Offered Biannually (Winter).

PSC 7720 Advanced Drug Formulation and Delivery II Cr. 2
Second course in survey of advanced research topics in pharmaceutics. Offered Biannually (Winter).

PSC 7800 Research Techniques in Medicinal Chemistry Cr. 1-4
Laboratory work employing modern techniques available in medicinal chemistry; application of basic principles to graduate study and research. Offered Every Term.

Repeatable for 12 Credits

PSC 7810 Research Techniques in Pharmaceutics Cr. 1-4
Laboratory work employing modern techniques available in pharmaceutics: application of basic principles to graduate study and research. Offered Every Term.

Repeatable for 12 Credits

PSC 7820 Research Techniques in Pharmacology Cr. 1-4
Laboratory work employing some of the modern techniques available in pharmacology, including the application of basic principles to graduate study and research. Offered Every Term.

Repeatable for 12 Credits

PSC 7840 Seminar in Basic Pharmaceutical Sciences Cr. 1-3
Basic science seminar for doctor of pharmacy students or graduate students. Offered Irregularly.
PSC 7850 Pharmaceutical Sciences Colloquium Cr. 1
This course is a required seminar course for all graduate students in the Department of Pharmaceutical Sciences. Offered Every Term.
Repeatable for 10 Credits

PSC 7860 Introduction to Seminar Cr. 1
A required seminar course for all first year graduate students in the Department of Pharmaceutical Sciences. Students will be required to present a seminar on their research progress during their first year in the program. Offered Every Term.
Repeatable for 4 Credits

PSC 7870 Second Year Seminar Cr. 1
A required seminar course for all second year PhD students in the Department of Pharmaceutical Sciences. Students will be required to present a seminar on a topic unrelated to their research. Offered Fall, Winter.
Prerequisites: PSC 7860 with a minimum grade of C

PSC 7880 Third Year Seminar Cr. 1
A required seminar course for all third year PhD students in the Department of Pharmaceutical Sciences. Students will be required to present a seminar on their research. Offered Fall, Winter.
Prerequisites: PSC 7870 with a minimum grade of C

PSC 7999 Master's Essay Direction Cr. 1-4
Offered Every Term.

PSC 8650 Special Topics in Medicinal Chemistry Cr. 2
Recent developments in medicinal chemistry. Topics under investigation and of current interest offered in different semesters. Offered Every Term.
Repeatable for 6 Credits

PSC 8660 Special Topics in Pharmaceutics Cr. 2
Recent developments in pharmaceutics. Topics under investigation and of current interest offered in different semesters. Offered Every Term.
Repeatable for 6 Credits

PSC 8670 Special Topics in Pharmacology Cr. 2
Recent developments in pharmacology. Topics under investigation and of current interest offered in different semesters. Offered Every Term.
Repeatable for 6 Credits

PSC 8999 Master's Thesis Research and Direction Cr. 1-8
Offered Every Term.
Repeatable for 998.99 Credits

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

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

PSC 9992 Doctoral Candidate Status II: Dissertation Research and Direction Cr. 7.5
Offered Every Term.

PSC 9993 Doctoral Candidate Status III: Dissertation Research and Direction Cr. 7.5
Offered Every Term.

PSC 9994 Doctoral Candidate Status IV: Dissertation Research and Direction Cr. 7.5
Offered Every Term.

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