Pharmaceutical Sciences (PSCI)

PSCI 501. Drug Discovery, Design, and Development. 3 hours.
Provides an overview of the process to discover, design, develop, and market drugs set in the background of chemistry and biology. Course Information: Credit is not given for PSCI 501 if the student has credit in BPS 507 or MDCH 507 or PMPG 507.

PSCI 502. Training in Research Presentation. 1 hour.
Provides practice and practical guidance for giving a high quality research seminar. Course Information: Satisfactory/Unsatisfactory grading only. Previously listed as MDCH 593.

PSCI 503. Biostatistics for Pharmaceutical Scientists. 2 hours.
Provides an introduction to basic statistical methods for pharmaceutical scientists. Course Information: Extensive computer use required. Credit is not given for PSCI 503 if the student has credit in BSTT 400.

PSCI 510. Principles of Pharmaceutics and Drug Delivery. 3 hours.
Provides fundamental principles of pharmaceutics and drug delivery. Course Information: Credit is not given for PSCI 510 if the student has credit in BPS 501.

PSCI 520. Research Techniques in Pharmacognosy. 3 hours.
Provides an introduction to the techniques used in pharmacognosy research. Course Information: Previously listed as PMPG 510.

PSCI 521. Structure Elucidation of Natural Products. 3 hours.
Provides an in-depth study of structure elucidation and dereplication of a natural product using modern computational methods and real-life examples. Course Information: Previously listed as PMPG 516. Prerequisite(s): MDCH 562; or consent of the instructor.

PSCI 530. Principles of Medicinal Chemistry. 5 hours.
Introduces concepts of graduate organic and physical organic chemistry as they relate to medicinal chemistry. Emphasis will be made on those topics of chemistry that are relevant to drug discovery and design. Course Information: Previously listed as MDCH 561. Prerequisite(s): Credit or concurrent registration in PHAR 422; or consent of the instructor. Recommended background: One year of organic chemistry with laboratory.

PSCI 592. Research Rotation in Pharmaceutical Sciences. 1-2 hours.
Research rotation course in which first year students from the Pharmaceutical Sciences program will undertake projects in laboratories affiliated with this program. Course Information: May be repeated to a maximum of 4 hours. Students may register for more than one section per term. Meets eight weeks of the semester. To be taken fall and spring semesters of the first year of graduate study. Prerequisite(s): Consent of the instructor.

PSCI 598. Master’s Thesis Research. 0-16 hours.
Independent research project under the guidance of an advisor. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Consent of the instructor.

Independent dissertation research under the guidance of an advisor and committee. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Consent of the instructor.