Pharmaceutical Sciences (PSCI)

PSCI 425. College of Pharmacy Colloquium Lecture Series. 1 hour.
Weekly, one-hour, basic-research seminars given by invited lecturers.
Course Information: Previously listed as BPS 425. May be repeated for a maximum of 2 hours. Students will not be able to concurrently enroll in PSCI 425 and PMPR 355 during the Spring semester.

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 students has credit in BSTT 400.

PSCI 504. Science Writing and Storytelling. 1 hour.
Designed to use storytelling to write and communicate science more effectively. Course Information: Satisfactory/Unsatisfactory grading only. Extensive computer use required. Meets eight weeks of the semester. Prerequisite(s): Consent of the instructor.

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

PSCI 519. Principles of Polymeric Science and Engineering. 3 hours.
Intermediate polymer science, thermodynamics of polymer solutions, phase separations, MW determination, crystallization, elasticity, kinetics and processing. Course Information: Previously listed as BPS 522. Prerequisite(s): MATH 220; or consent of the instructor.

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 522. Advanced Pharmacognosy. 3 hours.
Provides an in-depth knowledge of the occurrence, biosynthesis and activity profile of biologically active natural products from plants, marine and microbial sources. Course Information: Previously listed PMPG 511. Prerequisite(s): Credit or concurrent registration in PSCI 520; or consent of the instructor or equivalent course.

PSCI 523. Special Projects in Pharmacognosy. 1-3 hours.
Overview of current research topics of interest in Pharmacognosy. Course Information: Previously listed as PMPG 565. Prerequisite(s): Completion of the first year of the program.