Courses

BPS 421. Advanced Dosage Form Design [Compounding]. 1 hour.
Students attend five recitations and ten labs where they make twenty new dosage formulations. Several dosage formulations are of veterinary products used to treat diseases in dogs, cats, horses, cattle and other large animals. Course Information: Prerequisite(s): PHAR 321 and PHAR 322.

BPS 430. Principles of Toxicology. 2 hours.
Examines the toxic effects of drugs and chemicals on organ systems. Lectures emphasize basic principles, effects on specific organ systems, major classes of toxic chemicals, and specialized topics such as forensic and industrial toxicology. Course Information: Same as PCOL 430. Credit is not given for BPS 430 if student has credit for EOHS 457.

BPS 494. Special Topics of Current Interest in Biopharmaceutical Sciences. 1-3 hours.
Courses offered by faculty or a visiting Lecturer on a current topic of selected interest. Topics are available on an experimental basis for one offering only. Course Information: May be repeated to a maximum of 6 hours. Prerequisite(s): Consent of the instructor; good academic standing as defined by UIC policies.

BPS 506. Industrial Experience. 4-10 hours.
Recommended to graduate students with no industrial experience. Students spend time working in the pharmaceutical, imaging or cosmetic industry under academic supervision to obtain practical experience. Course Information: Satisfactory/Unsatisfactory grading only.

BPS 507. Drug Discovery, Design and Development. 3 hours.
Overview of drug development process from target identification and screening through clinical trials and FDA evaluation. Course Information: Satisfactory/Unsatisfactory grading only.

BPS 508. Concepts in Drug Development: From Bench to Bedside. 3 hours.
Designed to give clinicians an overview of the drug development process from bench to bedside. Emphasis will be placed on the regulatory aspects of drug development including clinical trials, FDA approval and post marketing surveillance. Course Information: Offered online only. Prerequisite(s): Consent of the instructor.

BPS 510. Principles of Interfacial Phenomena. 3 hours.
Quantitative and theoretical principles of physical and chemical sciences as applied to pharmacy. Thermodynamics, kinetics, colloid and surface chemistry in evaluation of pharmaceutical formulations. Course Information: Prerequisite(s): MATH 480.

BPS 518. Advanced Drug Delivery Systems. 2 or 3 hours.
Controlled drug delivery systems utilizing polymers, synthesis of different types of devices, and the delivery expected from these devices, and mathematical modeling of delivery systems. Course Information: Same as BIOE 518. Prerequisite(s): Consent of the instructor.

BPS 542. Pharmacodynamics of Substance Abuse. 2 hours.
Considers the mechanisms of action, responses, pharmacokinetics and dependence factors of substance abuse. Emphasis will be placed on research strategies in studying the biological aspects of drug abuse. Course Information: Prerequisite(s): Consent of the instructor and a course in basic pharmacology.
BPS 585. Ethical, Quality, Practice, and Legal Issues in Forensic Science. 3 hours.
A topical presentation-discussion of ethical, quality control, admissibility and practice topics emanating from the law-science interface integral to forensic sciences.

BPS 586. Topics in Specialty Forensic Examinations. 1-4 hours.
Topics may vary but will revolve around specialty forensic examinations, covering specific evidentiary classes (e.g. drug identification, DNA typing, fingerprints), including forensic laboratory methods, approaches and data interpretation. Course Information: May be repeated if topics vary. Students may register in more than one section per term. Prerequisite(s): BPS 581 or BPS 582 or BPS 583 or BPS 584; and consent of the instructor. Students must have credit in the forensic science program core course that covers the specific topic.

BPS 587. Forensic Science Seminar. 1 hour.
Weekly seminar series on forensic science research and topics, especially those outside the core requirements. Presentations by students, faculty, and guests. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prequisite(s): Graduate or professional standing.

BPS 588. Expert Witness Testimony and Courtroom Demeanor. 3 hours.
Trials, hearings, grand jury; expert versus lay witness; personal and behavioral characteristics on the stand; results, reports and courtroom testimony; simulated trial testimony. Course Information: Prerequisite(s): Approval of the department.

BPS 589. Special Topics in Forensic Science. 3 hours.
Content may vary but will revolve around the philosophic, moral, and managerial problems associated with criminalistics practice. Topics may include evidence collection, analysis, reporting, and testimony to non-criminalistics fields. Course Information: Same as CLJ 589. May be repeated if topics vary. Prerequisite(s): Consent of the instructor.

BPS 590. Forensic Science Residency. 1-8 hours.
In-depth training for casework analysis in a specific forensic discipline (e.g. drug identification, DNA typing, fingerprints) in an approved forensic science laboratory. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 24 hours. Prerequisite(s): BPS 581 or BPS 582 or BPS 583 or BPS 584; and consent of the instructor. Students must have credit in the forensic science program core course that covers the specific topic.

BPS 591. Topics in Forensic Microscopy. 1-4 hours.
Topic may vary but will revolve around microscopic characterization of various materials, with emphasis on forensic laboratory methods and approaches, and interpretation of materials comparisons as evidence. Course Information: May be repeated if topics vary. Students may register in more than one section per term. Prerequisite(s): BPS 582 and consent of the instructor.

BPS 592. Forensic Science Internship. 2-4 hours.
Placement in a forensic science or toxicology laboratory or setting, under the supervision of a faculty member, with an accepted research project or paper required. Course Information: May be repeated to a maximum of 4 hours. Students may register in more than one section per term. Prerequisite(s): BPS 580; and consent of the instructor and a minimum of 15 hours of credit earned in the M.S. in Forensic Science program.

BPS 593. Research in Biopharmaceutical Sciences. 0-16 hours.
Research in biopharmaceutical sciences with the guidance of a faculty mentor. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Approval of the department.

BPS 595. Departmental Seminar. 1-2 hours.
Weekly seminar series on research and experimental techniques in biopharmaceutical sciences. Also consists of journal club at which students will present an article once a year. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Weekly seminar and journal club meet separately from one another. Prerequisite(s): Approval of the department.

BPS 596. Independent Study in Forensic Science. 1-8 hours.
Supervised projects may consist of extensive reading or laboratory work, or both, on topics not covered in regular course offerings. Research undertaken for this course may not duplicate that being done for BPS 597 or BPS 598. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Students may register in more than one section per term. Prerequisite(s): Consent of the instructor.

BPS 597. Forensic Science Project Research. 3 hours.
Supervised research in forensic science; a research project to be designed and completed within one semester. Course Information: Satisfactory/Unsatisfactory grading only. Prerequisite(s): BPS 580; and at least the core course in the M.S. in Forensic Science program covering the subject area in which the research is to be conducted and consent of the instructor.

BPS 598. M.S. Thesis Research. 0-16 hours.
For students doing M.S. thesis research or thesis writing. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 10 hours. A minimum of 6 hours is required. Prerequisite(s): Consent of the instructor.

BPS 599. Dissertation Research. 0-16 hours.
Ph.D. thesis research. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Consent of the instructor.