BIOPHARMACEUTICAL SCIENCES (BIOPHRM SC)

BIOPHRM SC 133 Pharmacokinetics in Drug Development (3 Units) Spring
Instructor(s): Fran Aweeka
Prerequisite(s): Satisfactory completion of BPS 122.

Restrictions: None.

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

The course will provide advanced training in pharmacokinetics with a focus on the issues involved with drug development.

School: Pharmacy
Department: Bioengineering And Therapeutic Sciences
May the student choose the instructor for this course? Yes
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? Yes
Is this an Interprofessional Education (IPE) course? Yes
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

BIOPHRM SC 134 Research Design & Statistics in Drug Development (3 Units) Winter
Instructor(s): Nancy C. Sambol
Prerequisite(s): None.

Restrictions: This course is required for students in the Pharmaceutical Sciences Pathway, but is open to all students as an elective if space permits.

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

This course covers detailed aspects of optimizing research design for clinical and basic research. The material presented builds on the content covered in the Study Design Course of the first year curriculum. Design strategies for varying types of research as well as skills for critical evaluation of research studies and literature will be the primary focus. In addition, the ethics of using animals and humans will be discussed.

School: Pharmacy
Department: Bioengineering And Therapeutic Sciences
May the student choose the instructor for this course? Yes
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? Yes
Is this an Interprofessional Education (IPE) course? Yes
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

BIOPHRM SC 135 Principles of Pharmacogenomics (3 Units) Spring
Instructor(s): Nadav Ahituv
Prerequisite(s): None.

Restrictions: None.

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

This course provides students with a comprehensive overview of the genetic basis for differences in drug response. Genetic variability in drug receptors, transporters and enzymes as well as regulatory proteins involved in promoting and inhibiting transcription and translation will be discussed. The course also covers toxicogenetics and an introduction to computational genomics.

School: Pharmacy
Department: Bioengineering And Therapeutic Sciences
May the student choose the instructor for this course? Yes
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? Yes
Is this an Interprofessional Education (IPE) course? Yes
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

BIOPHRM SC 171 Precision & Personalized Medicine: Healthcare Frontiers (1 Units) Spring
Instructor(s): Esteban G Burchard
Prerequisite(s): None.

Restrictions: None. The course is open to professional students from all programs as well as graduate students.

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

Precision and Personalized Medicine offer great potential to improve biomedical research and patient care. Through this elective, students will learn about the principles of precision and personalized medicine and the current advancements in each area. Students will also engage in dialog with thought-leaders in these fields, and discuss potential solutions to obstacles these fields are facing. These experiences will prepare students to be pioneers in research and healthcare for years to come.

School: Pharmacy
Department: Bioengineering And Therapeutic Sciences
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes