**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, Project

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

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**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, Project

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

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**BIOPHRM SC 135  Principles of Pharmacogenomics (3 Units) Spring**

*Instructor(s): Nadav Ahituv*

Prerequisite(s): None.

Restrictions: None.

Activities: Lecture, Conference

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  
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**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

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

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