

Advanced Manufacturing Pharmacy

Drs. Hugh Smyth and Bill Williams

PGS 381G

Spring 2016

Course Description:

All pharmaceutical products have unique characteristics resulting from the physicochemical properties of the drug, the disease they treat, interactions with the biology of the patient and their organ systems, and the route of administration. In this course, graduate students will discover and describe these unique characteristics for marketed drug products, many of which are in the top 200 prescription medications in the US.

Graduate students in pharmaceuticals must be able to use the literature, patents, and existing product information to facilitate drug development. This course will prepare the student in the methods of research and provide coursework on the advanced pharmaceuticals of marketed drug products.

The goal of the class is for graduate students to find an interesting pharmaceuticals story directly related to the delivery system and manufacturing process of several marketed drug products.

Class: Fridays 8:00am - noon

Location: PHR 2.208

First Class – Friday August 26th

Faculty:

Robert O. Williams III, Ph.D.

Hugh D. Smyth, Ph.D.

Course Text: To be discussed on first class day.

Office Hours by appointment:

Dr. Williams - PHR 4.214

Dr. Smyth – PHR 4.214

This course does not utilize Teaching Assistants.

EXAMS: Grades will be based on weekly presentations, in class participation and contribution to discussion, quality of documents developed, errors in documents and presentations, quality of citations used to support content, and the quality and usefulness of the supplemental visual, hands-on teaching aids. See Syllabus Addendum for specific grading rubric.

GRADING: The grading system for this course is as follows:

93-100 A	87-89 B+	77-79 C+	66-69 D+
90-92 A-	83-86 B	73-76 C	63-65 D
	80-82 B-	70-72 C-	60-62 D-

ASSIGNMENTS - Read these directions carefully and follow exactly the instructions. See Syllabus Addendum for instructions.

Deliverables:

You will be developing in depth presentations on the pharmaceuticals of a diverse set of marketed drug products. The focus this semester is on the development and manufacturing processes of the drug products based on their orange book listed patents. You will relate basic pharmaceuticals concepts to the drug products.

You will be individually assigned one drug product. You will research and develop an understanding underlying the pharmaceuticals of each of these drug products.

See also, Syllabus Addendum, for more specific details about the assignments.