

## Brief Course Descriptions

Course Title & No.	Brief Course Description
<b>Biostatistics and Research Design</b> <b>0202611</b>	Biostatistics and research design provide students with advanced knowledge in research methodology and statistical methods used in health related subjects. It encompasses the design of pharmaceutical and medical studies, the collection, summarization, and analysis of data from those studies; and the interpretation and the limitation of the results. The course contains selected important topics in biostatistical concepts and reasoning.
<b>Advance Pharmacotherapeutics-cardiovascular</b> <b>0202612</b>	Advanced pharmacotherapy courses are designed to provide advanced knowledge to understand the rationale for various therapeutic strategies. Therapeutic drug regimens will be presented as well to define appropriate doses, reasonable therapeutics goals, necessary monitoring parameters, clinically significant drug-drug interactions and adverse effects of the various medications. Establish an individualized pharmacotherapeutic plan using evidence based medicine. This course will focus on cardiovascular diseases.
<b>Advance Pharmacotherapeutics-Infectious diseases</b> <b>0202613</b>	Advanced pharmacotherapy courses are designed to provide advanced knowledge to understand the rationale for various therapeutic strategies. Therapeutic drug regimens will be presented as well to define appropriate doses, reasonable therapeutics goals, necessary monitoring parameters, clinically significant drug-drug interactions and adverse effects of the various medications. Establish an individualized pharmacotherapeutic plan using evidence based medicine. This course will focus on infectious diseases.
<b>Advance Pharmacotherapeutics - Respiratory &amp; GIT Disease</b> <b>0202614</b>	Advanced pharmacotherapy courses are designed to provide advanced knowledge to understand the rationale for various therapeutic strategies. Therapeutic drug regimens will be presented as well to define appropriate doses, reasonable therapeutics goals, necessary monitoring parameters, clinically significant drug-drug interactions and adverse effects of the various medications. Establish a individualized pharmacotherapeutic plan using evidence based medicine. Advanced Pharmacotherapeutics will focus on respiratory and gastrointestinal diseases.
<b>Advance Pharmacotherapeutics-Endocrinology &amp; CNS</b> <b>0202615</b>	Advanced pharmacotherapy courses are designed to provide advanced knowledge to understand the rationale for various therapeutic strategies. Therapeutic drug regimens will be presented as well to define appropriate doses, reasonable therapeutics goals, necessary monitoring parameters, clinically significant drug-drug interactions and adverse effects of the various medications. Establish an individualized pharmacotherapeutic plan using evidence based medicine. This course will focus on selected diseases from endocrine and central nervous systems.
<b>Clinical pharmacokinetics</b> <b>0202616</b>	Clinical pharmacokinetics course will cover therapeutic drug monitoring for medications with narrow therapeutic index, drug dosing in liver and renal impairment, drug dose adjustment in dialysis patients and selected topics in certain classes of medication.
<b>Advanced Pharmacy Practice</b> <b>0202617</b>	Advanced pharmacy practice course allows the student to develop an individualized pharmaceutical care plan taking into consideration patient's factors, prioritizing therapeutic issues, recommending an action plan to address these issues including monitoring and follow-up plan. The course will emphasize on the importance of self-development and continuous education.
<b>Pharmacovigilance &amp; Pharmacoepidemiology</b> <b>0202618</b>	The course aimed to describe concepts and principles of pharmacoepidemiology in the broad context of therapeutic evaluation and drug decision-making process. It prepares students to develop a methodology to study medication use in large number of population, reports adverse drug reaction and use post-marketing surveillances, drug utilization reviews in order to study the safety and efficacy of medications.

<b>Evidence-based practice 0202619</b>	Evidence-based practice course prepares students to use evidence derived from clinical research in designing a pharmacotherapeutic plan. Students learn how to take the clinical, ethical and economic value of the medication in consideration while managing an individual patient. This course allows students to learn how to be up to date in order to provide patients with the most updated and current treatment approaches.
<b>Clinical Clerkship 0202690</b>	The clinical clerkship consists of 12 weeks of hospital training. The training rotation will include a variety of hospital wards. During these rotations the student will be exposed to all clinical pharmacy activities in hospitals, including participation in clinical rounds, optimizing drug therapy, medication reconciliation and patient's counseling. The course will foster the student's skill in communicating and collaborating with other healthcare professionals.
<b>Dissertation 0202699</b>	This is a research project that student has to complete before graduation. The project will focus on clinical and pharmaceutical issues related to patients' care. The students are expected to implement all essential components of quality research into their projects including: literature review, research design, statistical methods used, interpretation and limitation of results; and finally writing skills.