

Brief Course Descriptions

Course Title & No.	Brief Course Description
Biostatistics and Research Design 0202611	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.
Pharmacotherapeutics-Cardiovascular 0202612	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.
Pharmacotherapeutics-Infectious diseases 0202613	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.
Pharmacotherapeutics - Respiratory & GIT Disease 0202614	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. Advanced Pharmacotherapeutics will focus on respiratory and gastrointestinal diseases.
Pharmacotherapeutics-Endocrinology & CNS 0202615	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.
Clinical Pharmacokinetics 0202616	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.

<p>Advanced Pharmacy Practice 0202617</p>	<p>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.</p>
<p>Selected topics in Pharmacy practice 0202618</p>	<p>The selected topics in this course includes; Pharmacoeconomics, Pharmacoepidemeology and Pharmacovigillence.</p> <p>In the Pharmacoeconomics topic; The topic will cover different Pharmacoeconomic evaluation methods to identify, measure and compare the costs, risks and benefits of therapies and determining which alternative produces the best health outcome for the resource invested. In addition to provide students with clinical decision making skills based on the results of different pharmacoeconomics evaluation methods. Furthermore, provide the students with the ability to criticize published studies and it's suitability for UAE.</p> <p>The pharmacoepidemiology and pharmacovigilance topics will discuss the concepts and applications of pharmacoepidemiology. 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.</p>
<p>Evidence-Based Practice 0202619</p>	<p>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.</p>
<p>Clinical Clerkship 1 and Clinical Clerkship 2 (0202690 and 0202691)</p>	<p>The clinical clerkships consists of 24 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.</p>
<p>Dissertation 0202699</p>	<p>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.</p>