Advanced Pharmacology

**Course Description**

This course provides students with the knowledge and skills to develop and manage a patient’s pharmacological regimen in a safe, high quality, cost-effective manner. This course includes information on prescription and non-prescription pharmacological agents.

**Credit Hour Distribution**

3 credit hours

**Course Objectives**

Upon completion of this course, the student is expected to:

1. Assemble concepts and principles of the arts, sciences, humanities, and nursing in order to make advanced practice nursing decisions regarding pharmacological management of patients.
2. Synthesize responsibility and accountability using consistent behavior patterns and professional communication.
3. Incorporate evidenced based practice into the use of pharmacological agents.
4. Analyze the kinetics, dynamics, and therapeutics of broad categories of pharmacological agents.
5. Examine the relationship between pharmacologic agents and physiologic/pathologic responses.
6. Integrate moral, ethical, economic, cultural, and legal issues into advanced practice nursing decisions in the pharmacological management of patients.

**Topics 3 hours each unless noted**

Fundamental principles of pharmacology 1 hour

Pharmacology across the lifespan 1 hour

Ethnic and economic influences 2 hour

Pharm of psyc illnesses 2 hours

Pharmacology of the Autonomic Nervous System

Pharmacology of the Central Nervous System

Pharmacology of the Cardiovascular System

Pharmacology of the Immune System

Pharmacology of Infectious and Neoplastic Disease

Pharmacology of the Gastrointestinal System

Pharmacology of the Endocrine System

Pharmacology of the Respiratory System

Pharmacology of Bone and Joint Disorders

Pharmacology of Dermatologic Disorders

Pharmacology of Eye and Ear Disorders

Pharmacology of Emergencies: Bioterrorism and Poisoning

Community resources and cost effectiveness 2 hours