

Course Descriptions

NURS 6023 Advanced Assessment and Diagnostic Evaluation

3 CR

Presents theoretical and clinical basis for comprehensive assessment and diagnosis in primary health care settings, including all age groups. Emphasis is on clinical decision-making, differentiation of normal from pathological findings, risk assessment screening, diagnostic testing and interpretation of findings. Prerequisites: Undergraduate Health Assessment course (Minimum of a B). If a student has a "C" in physical assessment, proficiency may be demonstrated. Prerequisites: NURS 6003 or concurrent enrollment. [NOTE: FNP students are required to take the semester immediately prior to beginning clinical portion of FNP option. Prerequisites for NA students are NURS 6223 and NURS 6233].

NURS 6203 Theory Development in Nursing

3 CR

Examines the process of theory development in nursing and facilitates formation of a conceptual basis for advanced knowledge and practice. Includes analysis of various models and their application to advanced clinical practice. Must be taken prior to clinical nursing courses except in Nurse Anesthesia Program.

NURS 6113 Anesthesia Pharmacology I

3 CR

General principles of pharmacology, including pharmacokinetics and pharmacodynamics, classifications of drugs and clinical pharmacology in anesthetic practice. Focus is primarily on inhaled anesthetics, intravenous anesthetics, muscle relaxants/antagonists and local anesthetics. Prerequisites: Registered Nurse admitted to Nurse Anesthesia program.

NURS 6223 Anesthesia Anatomy, Physiology and Pathophysiology I

3 CR

Course focus is on the effects of anesthesia at the cellular level progressing to the advanced study of the cardiovascular, hematological and renal systems. Prerequisites: Registered Nurse admitted to Nurse Anesthesia program.

NURS 6523 Basic Principles in Anesthesia I

3 CR

The study of basic principles of anesthesia techniques and procedures including perioperative assessment, formulation of anesthesia management plans, positioning, airway management, and orientation to safe use and care of equipment. Prerequisites: Registered Nurse admitted to the Nurse Anesthesia program.

NURS 6123 Anesthesia Pharmacology II

3 CR

The focus of this course is on the pharmacodynamics, pharmacokinetics, anaphylaxis and drug interactions of autonomic and cardiovascular drugs, CNS drugs, diuretics and herbal medicine used in perioperative anesthetic practice. Prerequisites: NURS 6113.

NURS 6233 Anesthesia Anatomy, Physiology and Pathophysiology II

3 CR

This course is a continuation of the advanced study of anatomy, physiology and pathophysiology with focus primarily on the respiratory, central nervous system, endocrine and hepatic systems. Prerequisites: NURS 6223.

NURS 6042 Technology and Equipment for Nurse Anesthesia

2 CR

The course focus is on equipment, monitoring, and technology related to perioperative anesthesia practice. Prerequisites: Registered Nurse admitted to Nurse Anesthesia program.

NURS 6413 Advanced Chemistry and Physics related to Anesthesia

3 CR

Principles of chemistry and physics related to anesthetic practice. Basic knowledge for administering safe, physiologic anesthetic, utilizing the machine and monitoring devices. Prerequisites: Registered Nurse admitted to the Nurse Anesthesia program.

NURS 6533 Advanced Principles of Anesthesia I 3 CR

Advanced principles of perioperative anesthetic management including anatomy, physiology, pathophysiology, pharmacology and techniques and procedures related to pediatrics, obstetrics and geriatrics. Prerequisites: NURS 6523, NURS 6113, NURS 6042, NURS 6223.

NURS 6243 Anesthesia Pharmacology III 3 CR

In-depth study of pharmacology of the cardiovascular, nervous, respiratory systems, and local anesthetics. Prerequisites: NURS 6123.

NURS 6253 Anesthesia Anatomy, Physiology and Pathophysiology III 3 CR

An in-depth concise study of anatomy, physiology and pathophysiology that is relevant to the perioperative anesthesia management. Prerequisites: NURS 6233.

NURS 6043 Regional Anesthesia and Analgesia 3 CR

The course focus is on anatomy, pharmacology, and anesthetic techniques of regional anesthetics and analgesia. Prerequisites: Registered Nurse admitted to Nurse Anesthesia program.

NURS 6543 Advanced Principles of Anesthesia II 3 CR

Advanced principles of anesthetic management including anatomy, physiology, pathophysiology, pharmacology and techniques and procedures related to cardiovascular, thoracic, head and neck, orthopedic and laser surgery. Prerequisites: NURS 6533, NURS 6123, NURS 6233, NURS 6322.

NURS 6423 Professional Aspects of Nurse Anesthesia 3 CR

Focuses on professional roles and issues, changes in healthcare, and influence of CRNAs in the marketplace and policy arena. Prerequisites: Students enrolled in the Nurse Anesthesia program.

NURS 6553 Advanced Principles of Anesthesia III 3 CR

Advanced principles of anesthetic management including anatomy, physiology, pathophysiology, pharmacology and techniques and procedures related trauma, burns and neurosurgical anesthetics. Prerequisites: NURS 6543, NURS 6243, NURS 6253, NURS 6333.

NURS 6103 Research Design and Methodology 3 CR

Analysis and critical evaluation of nursing research appropriate to the study of nursing phenomena. Students develop a research proposal. Prerequisite: Undergraduate research and graduate-level statistics.

NURS 6723 Synthesis Seminar I 3 CR

A comprehensive review and synthesis of basic sciences, equipment, basic principles, advanced principles, and professional issues of nurse anesthesia practice. Prerequisites: NURS 6553, NURS 6736, NURS 6423.

NURS 6773 Synthesis Seminar II 3 CR

A continuing comprehensive review and synthesis of anatomy, physiology, pharmacology, basic and advanced principles of anesthesia covering the full scope of anesthesia practice in preparation for the national qualification examination. Prerequisites: NURS 6723, NURS 6787.

NURS 6311 Clinical Practicum I**1 CR**

Clinical activities include performing a complete anesthesia apparatus checkout, assembling basic drugs and monitors for an anesthetic, perioperative anesthesia assessment, formulating an anesthesia management plan for an ASA I patient, documentation, philosophy and ethical considerations in anesthesia practice. Prerequisites: Registered Nurse admitted to Nurse Anesthesia program.

NURS 6322 Clinical Practicum II**2 CR**

Clinical activities emphasize patient safety, monitoring and infection control. Students have the opportunity to participate in the administration of anesthetics for patients requiring all types of anesthesia including pain management. Prerequisites: NURS 6311, NURS 6523, NURS 6113, NURS 6223, NURS 6042, NURS 6413.

NURS 6333 Clinical Practicum III**3 CR**

Clinical experience in a hospital setting will correlate with concepts taught in Advanced Principles of Anesthesia II and III. Students will begin to develop expertise in the administration of all types of general and regional anesthesia including pain management to all types of patients. Prerequisites: NURS 6533, NURS 6123, NURS 6233, NURS 6043, NURS 6322.

NURS 6346 Clinical Practicum IV**6 CR**

Clinical experience in the clinical setting will correlate with concepts taught in Advanced Principles of Anesthesia III and IV. Students begin to develop expertise in the administration of all types of general and regional anesthesia including pain management to all types of patients. Prerequisites: NURS 6543, NURS 6333, NURS 6243, NURS 6253.

NURS 6736 Clinical Internship I**6 CR**

Clinical experience in clinical setting will correlate with concepts taught in the Advanced Principles courses. Students begin independent management of all types of general and regional anesthesia including pain management to patients undergoing all procedures with clinical instructors in consultation. Prerequisites: NURS 6553, NURS 6346.

NURS 6787 Clinical Internship II**7 CR**

Clinical experience in clinical setting will correlate with concepts taught in Synthesis Seminar I. Students begin independent management of all types of general and regional anesthesia including pain management to patients undergoing all procedures with clinical instructors in consultation. Prerequisites: NURS 6736.

NURS 6797 Clinical Internship III**7 CR**

Clinical experience focus is on the perioperative anesthesia management of all categories of patients undergoing all types of surgery, utilizing all variety of anesthetic techniques in a variety of clinical settings. Emphasis will be on independent management with instructor as a consultant. Prerequisites: NURS 6723, NURS 6787.