

Course Curriculum Description

A. Course Numbering System

The Wolford College course-numbering system is based on prefixes and numbers. Course prefixes and numbers are assigned according to the following system:

| Prefix Code | Code Number comprised of four digits | | | |
|--|---|---|--|---|
| NUAN-nurse anesthesia specialty course | 1 st Number of the four digit code | 2 nd Number of the four digit code | 3 rd Number of the four digit code | 4 th number of the four digit code |
| | Level Code-indicates the graduate year of study | 1-Nonclinical based study | Credit Hour Code-indicates the number of credit hours for course | Sequential in nature 0-9 |
| | 5 = first graduate year | 2-Basic science related to anesthesia | 1 = 1 credit hour | 0 indicates lower level study |
| | 6 = second year graduate study | 3-Basic Anesthesia concepts | 2&3 = 2&3 credit hours respectively | 9 indicates most advanced level of study |
| | 7 = third year graduate study | 4-Advanced anesthesia concepts | 4&5 = 4&5 credit hours respectively | |

For example, course NUAN 6451 is a nurse anesthesia specialty course given on the second year of graduate study. It is an advanced anesthesia concepts course. It counts for 5 credit hours. It is in the beginning of a series of courses.

B. Curriculum

The curriculum is constructed in a semester framework and clearly states credit hour for each course.

The Master of Science Program uses fifteen (15) contact class hours to equal one (1) credit hour in a 15-week semester.

C. Didactic First Year Course Descriptions

The descriptions for the courses offered in Wolford College are as follows:

NUAN 5111 Introduction to Advanced Practice Nurse Anesthesia (1sh)

Examination of professional and organizational influences on advanced practice nurse anesthesia with focus on the American Association of Nurse Anesthetists, including its

history, the Council on Accreditation, Certification and Practice and Standards and Scope of Practice.

Prerequisite: Admission to the program.

NUAN 5130 Health Policy and Ethics in Advanced Practice Nurse Anesthesia (3sh)

Overview of the health care delivery system in the United States that includes analysis of health care policy, financial issues, and political trends, ethical and professional issues in nurse anesthesia. This course also examines ethical decision-making in health care policy and the relationship between health policy making and the political process.

Prerequisite: Admission to the program.

NUAN 5135 Research Methodology for Nurse Anesthetists (3sh)

Study the process and application of nurse anesthesia research with emphasis on scientific inquiry and ethics in research with particular focus on developing knowledge and skills to critique published studies. Use of research to influence changes in the delivery of perioperative nurse anesthesia care in multiple health care settings is emphasized. Students will develop clinically oriented problem data analysis, interpretation, and research utilization.

Prerequisite: Admission to the program.

NUAN 5137 Advanced Health Assessment (3sh)

Knowledge and skills necessary for advanced practice registered nurses to synthesize concepts from nursing and the biopsychosocial sciences in the formulation of a comprehensive health assessment in nurse anesthesia. Includes 1 clinical day per week.

Prerequisite: Admission to the program.

NUAN 5220 Chemistry and Physics for Anesthesia (2sh)

Biomechanical principles of mechanisms, actions, and theories, as they apply to perioperative nurse anesthesia practice.

Prerequisite: Admission to the program.

NUAN 5221 Introduction to Clinical Practicum (2sh)

Theory and principles related to technological devices used in perioperative nurse anesthesia. Emphasis on operation and use of monitoring devices such as transducers, oximeters and capnographs.

Prerequisite: Admission to the program

NUAN 5231 Pharmacology of Anesthesia Agents (3sh)

Study of the pharmacokinetic, pharmacodynamic, and clinical use of anesthetic drugs in the perioperative management of anesthesia.

Prerequisite: Admission to the program.

NUAN 5232 Pharmacology of Adjunct Anesthesia Agents (3sh)

Study of the pharmacokinetics, pharmacodynamics, and clinical use of adjunct agents in the perioperative management of anesthesia.

Prerequisite: Admission to the program.

NUAN 5245 Advanced Anatomy and Human Physiology (4sh)

Comprehensive course focused on the advanced concepts of human physiology with particular attention given to cardiac and respiratory physiology.

Prerequisite: Admission to the program.

NUAN 5246 Endocrine, Hepatic and Neuro-Pathophysiology (4sh)

Study of advanced anatomy, physiology, and pathophysiology of the hepatic, nervous, and endocrine systems with emphasis on the body's homeostasis mechanisms and their aberrant function.

Prerequisite: NUAN 5245.

NUAN 5247 Cardiac, Respiratory and Renal Pathophysiology (4sh)

Study of advanced anatomy, physiology, and pathophysiology of the cardiovascular, respiratory and renal systems with emphasis on the body's homeostasis mechanisms and their aberrant function.

Prerequisite: NUAN 5245.

NUAN 5321 Regional Anesthesia (2sh)

Theoretical and practical considerations of perioperative patients undergoing regional anesthesia.

Prerequisite: Admission to the program.

NUAN 5330 Obstetrical, Pediatric and Geriatric Anesthesia (3sh)

Perioperative management for childbearing women, children, and seniors.

Prerequisite: Admission to the program.

NUAN 5331 Anesthesia Management (3sh)

Broad field orientation to perioperative nurse anesthesia practice. Includes 2 days of clinical per week.

Prerequisite: NUAN 5137.

NUAN 5343 Nurse Anesthesia Care for Co-existing Disease and Injury (4sh)

Study of perioperative management of patients experiencing cardiovascular, respiratory, endocrine renal, hepatic, and neurological disease and traumatic injury.

Prerequisite / Co requisite: NUAN 5246; NUAN 5247.

D. Clinical Course Description

NUAN 6112 Concepts of Advanced Nursing Practice (1sh)

Examination of professional, ethical, social and cultural influences for nurse anesthetists in advanced practice.

Prerequisite: NUAN 5111.

NUAN 6113 Professional Aspects of Nurse Anesthesia Practice (1sh)

Examination of current trends and issues of advanced practice nursing with emphasis on nurse anesthesia. Nurse Anesthesia Standards and Scope of Practice and reimbursement issues are explored.

Prerequisite: NUAN 6112.

NUAN 6311 Topics in Anesthesia I (1sh)

Beginning synthesis of current anesthesia topics and research, review of clinical mortality and morbidity concerns, and incorporation of professional issues into clinical practice.

Prerequisite: NUAN 5331.

NUAN 6312 Topics in Anesthesia II (1sh)

Continued beginning synthesis of current anesthesia topics and research, review of clinical mortality and morbidity concerns, and incorporation of professional issues into clinical practice.

Prerequisite: NUAN 6311.

NUAN 6313 Topics in Anesthesia III (1sh)

Incorporate current anesthesia topics and research, review of clinical mortality and morbidity concerns, and incorporation of professional issues into clinical practice.

Prerequisite: NUAN 6312.

NUAN 6451 Clinical Practicum I (5sh)

Clinical application of didactic material from the nurse anesthesia curriculum to the beginning level practice in the role of a nurse anesthetist. Anesthesia Seminars during the clinical practicum provide opportunity to review current research and practice issues.

Prerequisite: NUAN 5331.

NUAN 6452 Clinical Practicum II (5sh)

Continuation of the clinical application of didactic material from the nurse anesthesia curriculum with focus on utilization of additional anesthesia techniques and increased skill development.

Prerequisite: NUAN 6451.

NUAN 6453 Clinical Practicum III (5sh)

Incorporation of the nurse anesthesia curriculum content with opportunities to begin synthesis of all didactic material and techniques for effective and efficient clinical practice.

Prerequisite: NUAN 6452.

NUAN 7314 Topics in Anesthesia IV (1sh)

Apply current anesthesia topics and research, review of clinical mortality and morbidity concerns, and incorporation of professional issues into clinical practice.

Prerequisite: NUAN 6313.

NUAN 7430 Synthesis Seminar (3sh)

Comprehensive review and preparation for The National Certification Examination in Nurse Anesthesia.

Co requisite: NUAN 7444.

NUAN 7444 Clinical Practicum IV (4sh)

Display proficiency in the incorporation of the nurse anesthesia curriculum content with opportunities to synthesize all didactic material and techniques for effective and efficient clinical practice.

Prerequisite: NUAN 6453