

# NA-Nursing-Nurse Anesthesia

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## **NA 697. Special Topics. 3 Hours.**

Review of specialty concepts as presented in Anesthesia Pathophysiology I, Anesthesia Pathophysiology II, and Anesthesia for Surgical Specialties.

## **NA 698. Graduate Project. 2 Hours.**

Critical review of literature for an anesthesia topic with preparation of a scholarly product for dissemination.

## **NA 702. Anatomy & Physiology for Nurse Anesthetists. 6 Hours.**

This course is a study of histology, genetics, human anatomy and physiology, with an emphasis in neuroanatomy and neurophysiology. NA 702 integrates the structure, function, and organization of nervous tissue from the cellular through gross anatomic aspects including central, peripheral, and autonomic portions of the system. The course includes a series of clinical correlation laboratory experiences, team-based learning projects, and lectures designed to support and augment basic science content.

**Prerequisites:** NA 720 [Min Grade: B]

## **NA 708L. Anesthesia Practicum I. 2 Hours.**

This course is designed to provide a foundation in the basic principles and practice of nurse anesthesia. During this semester, clinical experiences are designed to provide the students with development of anesthesia practice, and to apply knowledge of basic and advanced principles of anesthetic management in surgical specialty areas.

**Prerequisites:** NA 721 [Min Grade: B] and NA 740 [Min Grade: B] and NA 770 [Min Grade: B] and NUR 614 [Min Grade: B]

## **NA 709L. Anesthesia Practicum II. 3 Hours.**

This course is designed to provide a foundation in the basic principles and practice of nurse anesthesia. During this semester, clinical experiences are designed to provide the students with continued development of anesthesia practice, and to apply knowledge of basic and advanced principles of anesthetic management in surgical specialty areas.

**Prerequisites:** NA 708L [Min Grade: P] and NA 741 [Min Grade: B] and NA 750 [Min Grade: B] and NA 771 [Min Grade: B]

## **NA 710L. Anesthesia Practicum III. 5 Hours.**

This course is designed to provide a foundation in the basic principles and practice of nurse anesthesia. During this semester, clinical experiences are designed to provide the students with continued development of anesthesia practice, and the apply knowledge of basic and advanced principles of anesthetic management in surgical specialty areas.

**Prerequisites:** NA 709L [Min Grade: P] and NA 745 [Min Grade: B] and NA 733 [Min Grade: B]

## **NA 711L. Anesthesia Specialty Immersion I. 5 Hours.**

This course is designed to provide advanced clinical experiences requisite for preparation consistent with a doctoral evidence-based practice of nurse anesthesia. During this semester, clinical experiences are designed to provide the advanced student with clinical experiences to further their knowledge base towards a doctoral level.

**Prerequisites:** NA 710L [Min Grade: P] and NA 740 [Min Grade: B] and NA 742 [Min Grade: B]

## **NA 712L. Anesthesia Specialty Immersion II. 5 Hours.**

This course is designed to provide advanced clinical experiences requisite for preparation consistent with a doctoral evidence-based practice of nurse anesthesia. During this semester, clinical experiences are designed to provide the advanced students with clinical experiences to further their knowledge base towards a doctoral level.

**Prerequisites:** NA 711L [Min Grade: P] and NA 795 [Min Grade: P] and NUR 738L [Min Grade: P]

## **NA 713L. Anesthesia Specialty Immersion III. 5 Hours.**

This course is designed to provide advanced clinical experiences requisite for preparation consistent with a doctoral evidence-based practice of nurse anesthesia. During this semester, clinical experiences are designed to provide the advanced student with clinical experiences to further their knowledge base towards a doctoral level.

**Prerequisites:** NA 712L [Min Grade: P] and NA 796 [Min Grade: P] and NUR 739L [Min Grade: P]

## **NA 718L. Focus on Advanced Nursing Practice Specialization. 4 Hours.**

The purpose of this course will be the study of specialty track specific topics. The focus of the course will be on providing foundational materials for specialized areas of advanced nursing practice. Emphasis is on exploring specific advanced nursing practice competencies.

**Prerequisites:** NA 702 [Min Grade: B] and NA 731 [Min Grade: B] and NUR 735 [Min Grade: B] and NQI 702 [Min Grade: B]

## **NA 720. Anesthesia Pharmacology I. 3 Hours.**

This course is designed to provide the nurse anesthesia student with knowledge of various non-anesthetic pharmacological agents and their anesthetic implications. During this course, students will learn pharmacological principles related to advanced practice nursing at the doctoral level.

## **NA 721. Anesthesia Pharmacology II. 3 Hours.**

This course is designed to provide the nurse anesthesia student with knowledge of various anesthetic pharmacological agents and their anesthetic implications. During this course, students will build upon knowledge gained from NA 720, and further master advanced pharmacological principles related to advanced practice nursing at the doctoral level.

**Prerequisites:** NA 702 [Min Grade: B] and NA 731 [Min Grade: B]

## **NA 731. Biochemistry & Physics for Nurse Anesthetists. 4 Hours.**

This course provides a solid chemistry, biochemistry, and physics foundation that is necessary for the safe practice of nurse anesthesia. Students will gain an understanding of these sciences, their clinical relevance, and how they apply to human beings and anesthesia equipment. This course is foundational in nature and success will help the student prepare for upcoming clinical anesthesia management courses.

**Prerequisites:** NA 720 [Min Grade: B]

## **NA 733. Informatics for Nurse Anesthetists. 3 Hours.**

The purpose of this course is to provide an introduction to the field of nursing informatics for nurse anesthetists. This course focuses on the collection, organization, analysis, and dissemination of information in nurse anesthesia and health care. Students are introduced to the information system life-cycle and the use of technology to enhance nursing care delivery and patient safety in perioperative settings.

**NA 740. Anesthesia Principles I. 4 Hours.**

The purpose of this course is to provide a beginning foundation for students to plan and implement safe anesthesia care in healthy patients. The focus of this course is the study of scientific foundations of nurse anesthesia practice. The emphasis on designing and implementing individualized anesthesia care plans, principles of anesthesia induction, maintenance, emergence, anesthesia complications on the health patient, routine and difficult airway management, and the principles of nurse anesthesia role transition and practice standards.

**Prerequisites:** NA 702 [Min Grade: B] and NA 731 [Min Grade: B]

**NA 741. Anesthesia Principles II. 3 Hours.**

This course is for the student who has a foundation in the basic principles and practice of nurse anesthesia. During this course, students will learn anesthetic management principles for surgical specialty areas. Upon course completion the student will demonstrate mastery of related anatomic, physiologic, pathophysiologic, and pharmacologic principles for each of the surgical specialty areas in the context of advanced nursing practice at the doctorate level.

**Prerequisites:** NA 721 [Min Grade: B] and NA 740 [Min Grade: B] and NA 770 [Min Grade: B]

**NA 742. Anesthesia Principles III. 3 Hours.**

Students will learn anesthetics management principles for parturients, neonates, infants and children. During this course, students will learn anesthetic management principles for surgical specialty areas. Upon course completion the students will demonstrate mastery of related anatomic, physiologic, pathophysiologic, and pharmacologic principles across special populations in the context of advanced nursing practice at the doctorate level.

**Prerequisites:** NA 708L [Min Grade: P] and NA 741 [Min Grade: B] and NA 750 [Min Grade: B] and NA 771 [Min Grade: B]

**NA 745. Professional Aspects. 4 Hours.**

This course is designed to provide the foundation of the professional aspects of becoming a CRNA. The students will demonstrate understanding of the principles associated with the business of anesthesia including finance, practice management, as well as intra and inter-professional healthcare collaboration.

**Prerequisites:** NA 708L [Min Grade: P] and NA 741 [Min Grade: B] and NA 750 [Min Grade: B] and NA 771 [Min Grade: B]

**NA 750. Regional Anesthesia. 3 Hours.**

The purpose of this course is the study of the theoretical and practical considerations involved in the administration and management of regional anesthesia and pain management. Related anatomy, physiology, and pharmacology will be reviewed as applied to the administration and management of regional anesthesia and pain management, using ultrasound and radiological techniques. Various regional anesthesia, both central and peripheral, are discussed as a component of a safe and effective anesthetic.

**Prerequisites:** NA 721 [Min Grade: B] and NA 740 [Min Grade: B] and NA 770 [Min Grade: B] and NUR 614 [Min Grade: B]

**NA 770. Anesthesia Pathophysiology I. 3 Hours.**

This Pathophysiology course is designed to promote the understanding and application of fundamental disease processes in clinical settings. General concepts of disease, including etiology, pathogenesis, and clinical significance are presented. These concepts are applied in systems-orientate approach to disease processes affecting cardiovascular and pulmonary systems. Application of this knowledge to anesthetic plan development and implication of anesthesia on the disease process will be expected.

**Prerequisites:** NA 702 [Min Grade: B] and NA 731 [Min Grade: B]

**NA 771. Anesthesia Pathophysiology II. 3 Hours.**

This pathophysiology course is designed to promote the understanding and application of fundamental disease processes in clinical settings. General concepts of disease, including etiology, pathogenesis, and clinical significance are presented. These concepts are applied in a systems-oriented approach to disease processes affecting musculoskeletal, renal, nervous, gastrointestinal, immune, hematological and endocrine systems. Application of the knowledge to anesthetic plan development and implications of anesthesia on the disease process, and vice versa, will be expected.

**Prerequisites:** NA 721 [Min Grade: B] and NA 740 [Min Grade: B] and NA 770 [Min Grade: B] and NUR 614 [Min Grade: B]

**NA 795. Critical Concepts I. 3 Hours.**

The purpose of this course is to foster academic development and integration of theoretical knowledge into clinical practice. The focus is on clinically relevant reviews and examinations of critical anesthesia concepts.

**Prerequisites:** NA 710L [Min Grade: P] and NA 740 [Min Grade: B] and NA 742 [Min Grade: B]

**NA 796. Critical Concepts II. 3 Hours.**

The purpose of this course is to foster continued academic development and integration of theoretical knowledge into clinical practice. The focus is on increasingly advanced clinically relevant reviews and examinations of critical anesthesia concepts. The emphasis is on advanced critical thinking ability and the synthesis of anesthesia concepts.

**Prerequisites:** NA 711L [Min Grade: P] and NA 795 [Min Grade: P] and NUR 738L [Min Grade: P]

**NA 797. Critical Concepts III. 3 Hours.**

The purpose of this course is to foster integration of advanced theoretical knowledge into complex scenarios in clinical practice. The focus is on the culmination of clinical review and examination of critical anesthesia concepts necessary for the beginning nurse anesthesia practitioner to demonstrate critical thinking and application of knowledge in the clinical practice setting. The emphasis is on development of complex critical thinking ability and the synthesis of anesthesia concepts.

**Prerequisites:** NA 712L [Min Grade: P] and NA 796 [Min Grade: P] and NUR 739L [Min Grade: P]