

MSN – Nurse Anesthesia Curriculum

Year - I

Summer

5 credits

NUAN 458	Principles of Anesthesia I	2
NURS 459	Integrated Assessment for Advanced Nursing Practice	3

Fall

6 credits

NUAN 459	Principles of Anesthesia II	2
NURS 453	Physiologic Foundations for Advanced Practice Nursing	4

Spring

6 credits

NUAN 460	Advanced Principles of Anesthesia 1	3
NURS 430	Pharmacology and Therapeutics	3

Year - II

Summer

4 credits

NUAN 461	Advanced Principles of Anesthesia 2	2
NURS 405	Inquiry I: Theoretical Foundations (Intensive)	2

Fall

6 credits

NUAN 462	Advanced Principles of Anesthesia 3	3
NURS 425	Inquiry II: Research Process (Intensive)	3

Spring

5 credits

NUAN 551A	Nurse Anesthesia: Advanced Practice 1A (<i>Clinical</i>)	2
NURS 444ABC	Ethics/Billing & Coding/Policy (ELNEC) (Intensive)	3

Year - III

Summer

3 credits

NUAN 551B	Nurse Anesthesia: Advanced Practice 1B (<i>Clinical</i>)	1
NURS 502	Inquiry III: Evidence Based Nursing Practice (Intensive)	2

Fall

5 credits

NUAN 552	Nurse Anesthesia: Advanced Practice 2 (<i>clinical</i>)	2
NURS 451	Leadership for Quality Healthcare (Intensive)	3

Total Program Credits

40 credits

Nurse Anesthesia (NUAN) Course Descriptions

NUAN 458 Principles of Anesthesia 1 (2) [Approved 4/2014]

An introduction to the art and science of nurse anesthesia, including basic anesthetic principles, chemical and physical properties of anesthesia, and basic anesthetic pharmacology. This course is designed to introduce students to basic anesthesia safety, anesthesia practice, and the operating room environment.

Prerequisite: Admission to Nurse Anesthesia Program

NUAN 459 Principles of Anesthesia 2 (2) [Approved 4/2014]

In-depth study of principles of regional anesthesia and pain management. Emphasis placed on relevant anatomy and physiology, preoperative assessment and appropriate patient selection, appropriate use of equipment, pharmacology of commonly used medications, techniques for administration, and physiologic alterations/complications.

Prerequisite: NUAN 458

NUAN 460 Advanced Principles of Anesthesia 1: Respiratory, Cardiovascular, & Hematologic (3) [Approved 2/2015]

An in-depth exploration of the anatomy, physiology, and pathophysiology of the cardiovascular, respiratory, and hematologic systems in the context of anesthesia care. Implications of cardiovascular, respiratory, and hematologic disease for all types of surgery are explored, with emphasis on anesthetic management of surgical procedures related to these systems.

Prerequisite: NUAN 459 and NURS 453

NUAN 461 Advanced Principles of Anesthesia 2: Neurological, Renal & Endocrine (2) [Approved 4/2015]

An in-depth exploration of the anatomy, physiology, and pathophysiology of the renal, endocrine, and neurological systems in the context of anesthesia care. Implications of renal, endocrine, and neurological disease for all types of surgery are explored, with emphasis on anesthetic management of surgical procedures related to these systems.

Prerequisite: NUAN 460

NUAN 462 Advanced Principles of Anesthesia 3: Pediatrics, Obstetrics & Geriatrics (3) [Approved 4/2015]

An in-depth exploration of the anatomy, physiology, and pathology of pediatric, obstetric, and geriatric patients within the context of anesthesia care. Implications of physiologic changes across the lifespan are explored, with emphasis on the anesthetic management of anesthetic and surgical procedures related to these patient populations.

Prerequisite: NUAN 461

NUAN 551A Nurse Anesthesia: Advanced Practice 1A (2) [Update Approved 4/2015]

Individual, in-depth study of advanced clinical nurse anesthesia in such specialty areas as neurosurgical, cardiovascular, obstetric and pediatric anesthesia. The nurse learns to handle more difficult, specialized patients who are at a higher risk. Emphasis on more complex management with advanced monitoring techniques, use of pharmacological agents and handling higher stress situations. Students develop and utilize practical clinical applications of nurse anesthesia theory. Students are individually assigned to specialty areas and are formally evaluated at the end of each rotation. Case presentations and group discussion designed to assist the student in conceptualizing, analyzing, and evaluating various nurse anesthesia strategies as they relate to the client's health seeking behaviors and goals are also emphasized.

Prerequisite: NUAN 462

NUAN 551B Nurse Anesthesia: Advanced Practice 1B (1) [Update Approved 4/2015]

Individual, in-depth study of advanced clinical nurse anesthesia in such specialty areas as neurological, cardiovascular, obstetric and pediatric anesthesia. The nurse learns to handle more difficult, specialized patients who are at high risk. Emphasis is on more complex management with advanced monitoring techniques, uses of pharmacological agents and handling higher stress situations. Students develop and utilize practical clinical application of nurse anesthesia theory. Students are individually assigned to specialty areas and are formally evaluated at the end of each rotation.

Prerequisite: NUAN 551A

NUAN 552 Nurse Anesthesia: Advanced Practice 2 (2)

The continuation of advanced, independent clinical nurse anesthesia administration. Emphasis is on management of higher risk patients for more difficult procedures, performing total anesthetic care with minimum of anesthesiologist supervision, and readiness for transition from student to graduate status. *Prerequisite: NUAN 551B*