# Doctor of Nurse Anesthesia Practice (DNAP) with an Emphasis in Health Administration

This program is offered by the College of Science and Health and is only available at the St. Louis main campus.

## **Entry into Practice**

## **Program Description**

The Doctor of Nurse Anesthesia Practice (DNAP) degree prepares students for expertise in the art and science of anesthesia. Individuals develop this expertise through a holistic and complex integration of affective, cognitive, and psychomotor skills. Nurse anesthesia is an evolving profession, sensitive to the needs of society and the profession. The philosophy of Webster University's Nurse Anesthesia Program (NAP) is that graduate education is fundamental in preparation for practicing as a certified registered nurse anesthetist. Webster University also believes that the profession of anesthesia requires a scientific and dynamic approach to assist in the return to health. The professional nurse anesthetist provides a variety of health services to individual patients and underserved communities using a variety of theories. The practice of anesthesia involves assessment, planning, implementation, directing and evaluating the care process. The practice of nurse anesthesia is founded in a long tradition with numerous activities of the nurse anesthesia profession directed toward disease prevention, health maintenance, restoration, and rehabilitation. Strong moral, ethical, and legal codes are fundamental to the practice of nurse anesthesia. These codes are reflected in internal, external, independent, and interdependent behaviors.

Education at the graduate level is an expansion of the knowledge attained from undergraduate studies. Graduate education at Webster University encourages the development of advanced skills, theoretical knowledge and critical thinking skills to practice the art and science of anesthesia. The art and science of anesthesia are dynamic and require continued educational endeavors to stay abreast of current theory. Therefore, the nurse anesthetist must recognize the need to enhance one's knowledge and improve one's skills as a lifelong endeavor in the discipline of nurse anesthesia.

The curriculum spans three years of continuous enrollment.

## **Quality Outcomes**

Upon completion of the program, students should be able to:

- Professional:
  - Discuss and define the Scope of Practice of the CRNA.
  - Discuss current issues pertaining to the practice of nurse anesthesia.
  - Demonstrate professional attributes through attendance and participation in local, state and national professional organizational meetings and events.
  - Demonstrate strong ethics and personal integrity in all professional pursuits to include the delivery of quality and safe anesthesia to the community we serve.
  - Maintain AANA Associate membership until certification is obtained.
  - Demonstrate professional behaviors in the classroom, clinical settings and organizational activities.
  - Discuss role of Advanced Practice Nurse in leadership and healthcare.
  - Contribute to organizational and systems leadership to improve health care delivery.
- Didactic:
  - Develop a strong and comprehensive knowledge base necessary for the safe and effective delivery of

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- Demonstrate requisite knowledge of content learned as evidenced by biannual Self Evaluation Examination (SEE) scores at or above median range or year in program.
- Proposed, developed, completed and defended a research thesis demonstrating a thorough understanding of the research and scientific method.
- Pass the National Board Certifying Exam for Certified Registered Nurse Anesthetist.
- Clinical:
  - Advocate for patient safety at all times.
  - Perform a thorough preanesthetic assessment and physical examination.
  - Develop an anesthesia care plan based on reported patient health conditions and physical exam.
  - · Perform relevant patient and family teaching.
  - Obtain informed consent for anesthesia services.
  - Administer and manage a variety of anesthetic techniques, to include MAC, regional and general anesthetic techniques.
  - Provide advanced airway management skills.
  - Safely emerge patient from the anesthetic and transport to the Post Anesthesia Care Unity (PACU).
  - Demonstrate mastery in the understanding of comorbidities and the delivery of anesthesia.
  - Transfer care to PACU staff.
  - Recognize and manage any post anesthetic conditions in PACU.
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John J. Cochran Veterans Affairs Hospital, Lake Regional Hospital, Missouri Delta Medical Center, Phelps Health, St. Francis Medical Center, and University of Missouri Hospital Center complete our outstanding group of clinical affiliates.

## **Program Curriculum**

Enrollment requires admission to the NAP or special permission of the Program Director.

### Science Core

- PHYS 7500 Physics for Anesthesia (2 hours)
- AHP 7030 Cell Biology (3 hours)
- AHP 7050 Medical Biochemistry (3 hours)
- AHP 7080 Immunology (2 hours)
- AHP 7010 Advanced Human Physiology I (2 hours)
- AHP 7020 Advanced Human Physiology II (2 hours)
- AHP 7100 Human Gross Anatomy I (3 hours)
- AHP 7100 Human Gross Anatomy I Lab (1 hour)
- AHP 7200 Human Gross Anatomy II (3 hours)
- AHP 7201 Human Gross Anatomy II Lab (1 hour)
- AHP 8400 Advanced Pathophysiology (3 hours)
- DNAP 7900 Pharmacology I (3 hours)
- DNAP 8000 Advanced Pharmacology II (3 hours)
- DNAP 8010 Advanced Pharmacology III (3 hours)
- DNAP 8020 Advanced Pharmacology IV (3 hours)
- DNAP 8700 Pharmacogenomics (2 hours)

#### **Anesthesia Courses**

- DNAP 7000 Advanced Health Assessment (4 hours)
- DNAP 7100 Introduction to Anesthesia (3 hours)
- DNAP 7200 Basics of Anesthesia (3 hours)
- DNAP 7300 Principles of Anesthesia I (3 hours)
- DNAP 7400 Principles of Anesthesia II (3 hours)
- DNAP 8100 Anesthesia Concepts I (3 hours)
- DNAP 8200 Anesthesia Concepts II (3 hours)
- DNAP 8300 Anesthesia Concepts III (3 hours)
- DNAP 8400 Anesthesia Concepts IV (3 hours)
- DNAP 8410 Anesthesia and Coexisting Diseases (3 hours)
- DNAP 8500 Current Topics in Anesthesia I (1 hour)
- DNAP 8510 Current Topics in Anesthesia II (1 hour)
- DNAP 8520 Current Topics in Anesthesia III (1 hour)
- DNAP 8530 Current Topics in Anesthesia IV (1 hour)
- DNAP 7150 Clinical Simulation Experience I (2 hours)
- DNAP 7250 Clinical Simulation Experience II (2 hours)
- DNAP 7350 Clinical Simulation Experience III (2 hours)
- DNAP 7450 Clinical Simulation Experience IV (2 hours)
- DNAP 7550 Introduction to Clinical Experience (2 hour)
- DNAP 7650 Clinical Experience I (2 hours)
- DNAP 7750 Clinical Experience II (2 hours)
  DNAP 7750 Clinical Experience II (2 hours)
- DNAP 7750 Clinical Experience II (2 nours)
   DNAP 7850 Clinical Experience III (2 hours)
- DNAP 7850 Clinical Experience III (2 nours)
   DNAP 2050 Clinical Experience IV (2 hours)
- DNAP 8050 Clinical Experience IV (2 hours)
- DNAP 8150 Clinical Experience V (2 hours)
  DNAP 8250 Clinical Experience VI (2 hours)
- DINAP 8250 Clinical Experience VI (2 hours)
- DNAP 8350 Clinical Experience VII (2 hours)
  DNAP 8450 Clinical Experience VIII (2 hours)
- DNAP 8450 Clinical Experience VIII (2 hours)
   DNAP 8550 Clinical Experience IX (2 hours)
- DNAP 8550 Clinical Experience X (2 hours)
   DNAP 8650 Clinical Experience X (2 hours)

#### **Doctoral Core**

- DNAP 6400 Population Health and Epidemiology (2 hours)
- HLTH 5000 Organization and Management in Health Administration (3 hours)
- HLTH 5050 Financial Management in Health Administration (3 hours)

- DNAP 8240 Health Care Policy Analysis and Advocacy (3 hours)
- DNAP 8430 Health Administration Law and Ethics (3 hours)
  DNAP 8440 Advanced Practice Nurse Role in Leadership and Health Care (3 hours)

#### **Research Core**

- AHP 7510 Biostatistics for Health Sciences (3 hours)
- AHP 7500 Translational Research (2 hours)
- DNAP 7501, DNAP 7502, DNAP 7503, DNAP 7504, DNAP 7505, DNAP 7506, DNAP 7507, DNAP 7508; Research/ Thesis Project I-VIII (8 hours)

Total required: 134 credit hours

#### Requirements

#### Academic Performance

Students must earn a minimum cumulative GPA of 3.0 during the course of graduate study and are permitted only one course grade of C.

#### **General Requirements**

Enrollment in all nurse anesthesia courses requires admission to the NAP. Completion of the courses will occur in the sequence prescribed by the program for the cohort group in which enrolled; deviations from this sequence, or enrollment without admission to the NAP require special permission of the Program Director.

Students in the program are subject to the policies and procedures for graduate studies for Webster University and the NAP.

#### **Continuous Enrollment**

Graduate students enrolled in the NAP must maintain continuous enrollment, or request special permission from the Program Director. The Webster University NAP is a cohort program which requires continuous enrollment with courses completed in the prescribed succession.

### Admission

See the Admission section of this catalog for general admission requirements.

Students interested in applying must submit their application through the Nursing Common Application System (NursingCAS) at https://nursingcas.org/. Applicants will need to create and account within the NursingCAS platform. The Webster NAP application can be found by searching for "Webster".

#### **Additional Requirements**

Requirements for admission to the NAP include:

- Current RN license (applicants must obtain a Missouri, Illinois, and Kentucky Nursing License once admitted into the program).
- Bachelor's degree in nursing or related field from a fully accredited institution.
- Prerequisite courses (college-level, 3 credit hours each with satisfactory grades, taken within the last 5 years). Labs are not required for these courses but are encouraged. All prerequisite courses should be completed, with grades received, prior to the application deadline. We encourage applicants to take challenging courses with in depth study of these topics. Courses that provide only superficial

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introduction of the content will not prepare you as well for the NAP curriculum.

- Organic Chemistry and/or Biochemistry courses that combine organic chemistry and biochemistry are acceptable. This course should not be combined with or have a review of general chemistry. A good indicator of this is a general chemistry prerequisite for the course. Courses that include general chemistry content will NOT be accepted.
- Physics this must be a college-level, algebra-based physics course for science majors. Courses offering instruction in the 'concepts' or a 'survey' of physics for nonscience-based majors will NOT be accepted.
- A cumulative GPA of 3.0 on a 4.0 scale for undergraduate studies or evidence of outstanding post-graduation academic achievement.
- A minimum of one year of experience in a critical care setting as a professional registered nurse (two years preferred in an adult intensive care unit (ICU) setting)

#### **Application Process**