

2019

# Master of Science in Anesthesia-Tampa

Nova Southeastern University

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Dr. Pallavi Patel  
College of Health Care Sciences

# Master of Science in Anesthesia—

Tampa

NOVA SOUTHEASTERN UNIVERSITY  
HEALTH PROFESSIONS DIVISION  
ENTERING CLASS 2019



NOVA SOUTHEASTERN UNIVERSITY—synonymous with dynamic innovation and intellectual challenge—is the **second largest**, private, nonprofit university in the Southeast and **1 out of only 361 colleges and universities** nationally selected for the Carnegie Foundation’s Community Engagement Classification. Situated on a beautiful, 314-acre campus in Fort Lauderdale, Florida, the university is experiencing a sustained period of academic growth, fiscal strength, and commitment to the challenges of the 21st century.

In this environment of expansion and stability, the university is capitalizing on its strengths in such areas as academic innovation, comprehensive clinical training, and flexible educational delivery systems.

Founded in 1964 as Nova University, the institution merged with Southeastern University of the Health Sciences in 1994, creating Nova Southeastern University. To date, the institution has **more than 183,000 alumni** and current enrollment of **nearly 21,000 students**. Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools, the university awards bachelor’s, master’s, educational specialist, and doctoral degrees, as well as certificates in a wide range of fields including the health professions, law, business, marine sciences, psychology, social sciences, computer and information sciences, and education.

The university’s degree programs are administered through academic units that offer courses at the Fort Lauderdale/Davie Campus, as well as at NSU’s regional campuses, located in Fort Myers, Jacksonville, Miami, Miramar, Orlando, Palm Beach, and Tampa, Florida, and San Juan, Puerto Rico. NSU also has active distance education programs offered at instructional sites in 12 U.S. states, including Florida, in Puerto Rico, and in 4 countries.

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FORT LAUDERDALE/DAVIE CAMPUS

THE HEALTH PROFESSIONS DIVISION (HPD), with a student body of nearly 8,000, is home to eight colleges. Located on the Fort Lauderdale/Davie Campus, it occupies a \$70-million complex, covering 21 acres. It includes eight buildings totaling more than 900,000 square feet of space for classrooms, laboratories, offices, the Health Professions Division Library, an outpatient health center, and a pharmaceutical care center. Several of the HPD programs are also located at our regional campuses in Fort Myers, Jacksonville, Miami, Miramar, Orlando, Palm Beach, and Tampa, Florida, as well as in San Juan, Puerto Rico. These campuses extend our programs and resources to various communities. They offer you the ability to complete a degree at a location that may be more convenient to your home.



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## NSU MISSION STATEMENT

The mission of Nova Southeastern University, a private, not-for-profit institution, is to offer a diverse array of innovative academic programs that complement on-campus educational opportunities and resources with accessible, distance-learning programs to foster academic excellence, intellectual inquiry, leadership, research, and commitment to community through engagement of students and faculty members in a dynamic, lifelong learning environment.



## Letter from the Interim HPD Chancellor

NSU's Health Professions Division (HPD) is playing a pivotal role in leading the university to new levels of excellence. The division comprises eight distinctive colleges— osteopathic medicine, pharmacy, optometry, medical sciences, dental medicine, health care

sciences, nursing, and allopathic medicine—that offer more than 60 degree and certificate programs.

We have seen the university reach many milestones recently. In September 2017, NSU received the largest philanthropic gift in its history from physicians Dr. Kiran C. Patel, M.D., and his wife, Dr. Pallavi Patel, M.D., which included a \$50-million gift and an additional \$150-million real estate and facility investment in Clearwater, Florida.

Then, in January 2018, the Patels provided additional gifts totaling close to \$30 million, while a substantial contribution from longtime donors Ron and Kathy Assaf resulted in new HPD enhancements. The altruistic trend continued in February 2018, when a significant gift from Martin and Gail Press resulted in the renaming of the HPD Library.

In October 2017, our allopathic medicine college received preliminary accreditation. As a result, the college gained approval to begin interviewing and accepting its inaugural class of 50 students in August 2018. Finally, construction commenced on the HCA East Florida hospital that will be located on NSU's Fort Lauderdale/Davie Campus.

These exciting developments will ensure that our students receive a well-rounded education at an academic institution that prides itself on being dynamic, innovative, and interprofessional in its academic approach.

A blue ink handwritten signature that reads "Irving Rosenbaum". The signature is fluid and extends to the right with a long horizontal stroke.

Irving Rosenbaum, D.P.A., Ed.D., M.P.A.  
Interim Health Professions Division Chancellor

# Health Professions Division Degree Programs

## Dr. Kiran C. Patel College of Osteopathic Medicine

- Doctor of Osteopathic Medicine [D.O.]
- Master of Public Health [M.P.H.]
- Master of Science in Biomedical Informatics [M.S.]
- Master of Science in Disaster and Emergency Management [M.S.]
- Master of Science in Medical Education [M.S.]
- Master of Science in Nutrition [M.S.]
- Bachelor of Science in Public Health [B.S.]
- Graduate Certificate in Emergency Medicine
- Graduate Certificate in Functional Nutrition and Herbal Therapy
- Graduate Certificate in Health Education
- Graduate Certificate in Medical Informatics
- Graduate Certificate in Public Health
- Graduate Certificate in Public Health Informatics
- Graduate Certificate in Social Medicine

## College of Pharmacy

- Master of Science in Pharmaceutical Affairs [M.S.]
- Master of Science in Pharmaceutical Sciences [M.S.]
  - Concentration in Drug Development [Pharmaceutics]
  - Concentration in Molecular Medicine and Pharmacogenomics
  - Concentration in Social and Administrative Pharmacy
- Doctor of Pharmacy [Pharm.D.]
- Doctor of Philosophy in Pharmaceutical Sciences [Ph.D.]
  - Concentration in Drug Development [Pharmaceutics]
  - Concentration in Molecular Medicine and Pharmacogenomics
  - Concentration in Social and Administrative Pharmacy

## College of Optometry

- Doctor of Optometry [O.D.]
- Master of Science in Clinical Vision Research [M.S.]
- Graduate Certificate in Clinical Vision Research

## Dr. Pallavi Patel College of Health Care Sciences

- Bachelor of Science—Cardiovascular Sonography [B.S.]
- Bachelor of Science in Exercise and Sport Science [B.S.]
- Bachelor of Health Science [B.H.Sc.]
- Bachelor of Science—Medical Sonography [B.S.]
- Bachelor of Science in Respiratory Therapy [B.S.]
- Bachelor of Science in Speech-Language and Communication Disorders [B.S.]
- Master of Science in Anesthesia [M.S.]
- Master of Science in Athletic Training [M.S.A.T.]
- Master of Health Science [M.H.Sc.]
- Master of Occupational Therapy [M.O.T.]
- Master of Medical Science in Physician Assistant [M.M.S.]
- Master of Science in Speech-Language Pathology [M.S.]
- Doctor of Audiology [Au.D.]
- Doctor of Health Science [D.H.Sc.]
- Doctor of Philosophy in Health Science [Ph.D.]
- Entry-Level Doctor of Occupational Therapy [O.T.D.]
- Doctor of Occupational Therapy [Dr.O.T.]
- Doctor of Philosophy in Occupational Therapy [Ph.D.]
- Doctor of Physical Therapy [D.P.T.]
  - Professional Doctor of Physical Therapy [D.P.T.]
  - Postprofessional Doctor of Physical Therapy: Transition [D.P.T.]
- Doctor of Philosophy in Physical Therapy [Ph.D.]
- Doctor of Speech-Language Pathology [SLP.D.]
- Certificate in Audiologist Assistant
- Graduate Certificate in Clinical Research Associate
- Graduate Certificate in Clinical Trial Manager

## College of Medical Sciences

- Master of Biomedical Sciences [M.B.S.]

## College of Dental Medicine

- Doctor of Dental Medicine [D.M.D.]
- Master of Science in Dentistry [M.S.]
- Postgraduate Certificate in Advanced Education in General Dentistry
- Postgraduate Certificate in Endodontics
- Postgraduate Certificate in Operative Dentistry
- Postgraduate Certificate in Oral and Maxillofacial Surgery
- Postgraduate Certificate in Orthodontics
- Postgraduate Certificate in Pediatric Dentistry
- Postgraduate Certificate in Periodontics
- Postgraduate Certificate in Prosthodontics
- Postgraduate Certificate in Special Needs Dentistry

## Ron and Kathy Assaf College of Nursing

- Bachelor of Science in Nursing [B.S.N.]
  - Entry Nursing
  - R.N. to B.S.N.
  - R.N. to M.S.N.
- Master of Science in Nursing [M.S.N.]
  - R.N. to M.S.N.
  - M.S.N. Clinical Concentrations
    - Advanced Practice Registered Nurse, Family Nurse Practitioner
    - Advanced Practice Registered Nurse, Adult-Gerontology Acute Care Nurse Practitioner
    - Advanced Practice Registered Nurse, Psychiatric Mental Health Nurse Practitioner
  - M.S.N. Nonclinical Concentrations
    - Executive Nurse Leadership
    - Nursing Education
    - Nursing Informatics
- Doctor of Nursing Practice [D.N.P.]
- Doctor of Philosophy in Nursing [Ph.D.]
- Graduate Certificate in Adult-Gerontology Acute Care Nurse Practitioner
- Post-Master's Certificate in Family Nurse Practitioner

## Dr. Kiran C. Patel College of Allopathic Medicine

- Doctor of Medicine [M.D.]

## Dual Degrees

- Bachelor of Science—Cardiovascular Sonography [B.S.] and Master of Health Science [M.H.Sc.]
- Bachelor of Science—Medical Sonography [B.S.] and Master of Health Science [M.H.Sc.]
- Master of Health Science [M.H.Sc.]/Doctor of Health Science [D.H.Sc.]
- Bachelor of Science in Public Health [B.S.]/Doctor of Osteopathic Medicine [D.O.]
- Doctor of Osteopathic Medicine [D.O.]/Doctor of Dental Medicine [D.M.D.]

## Concurrent Degrees

- Doctor of Osteopathic Medicine [D.O.]/Master of Science in Medical Education [M.S.]
- Doctor of Osteopathic Medicine [D.O.]/Master of Public Health [M.P.H.]
- Doctor of Osteopathic Medicine [D.O.]/Master of Science in Biomedical Informatics [M.S.]
- Doctor of Osteopathic Medicine [D.O.]/Master of Science in Disaster and Emergency Management [M.S.]
- Doctor of Osteopathic Medicine [D.O.]/Master of Science in Nutrition [M.S.]
- Doctor of Pharmacy [Pharm.D.]/Master of Business Administration [M.B.A.]
- Doctor of Pharmacy [Pharm.D.]/Master of Public Health [M.P.H.]
- Doctor of Pharmacy [Pharm.D.]/Master of Science in Biomedical Informatics [M.S.]
- Doctor of Optometry [O.D.]/Master of Public Health [M.P.H.]
- Doctor of Audiology [Au.D.]/Master of Business Administration [M.B.A.]
- Master of Medical Science [M.M.S.]/Master of Public Health [M.P.H.]
- Doctor of Dental Medicine [D.M.D.]/Master of Public Health [M.P.H.]
- Doctor of Dental Medicine [D.M.D.]/Master of Business Administration [M.B.A.]



## Letter from the Dean

NOVA SOUTHEASTERN UNIVERSITY'S Dr. Pallavi Patel College of Health Care Sciences provides the highest quality of education to students in a variety of health care disciplines, including occupational, physical, and respiratory therapy; physician assistant; audiology; medical and cardiovascular sonography; anesthesiologist assistant; speech-language pathology; athletic training; exercise and sport science; and health sciences. We offer entry-level programs to advanced health care studies that allow professionals to continue with their lifelong learning. The cutting-edge curricula offered in our programs will help our students gain future success in their fields.

The college is committed to providing health care educational opportunities in formats that meet the needs of prospective students in the community. These formats include both the standard, face-to-face classroom approach and innovative distance electronics. By combining the most contemporary teaching modalities with state-of-the-art technology, our students are assured of obtaining the most comprehensive education possible.

The Dr. Pallavi Patel College of Health Care Sciences believes in excellence and innovation in teaching, research, service, and learning. This is made possible by having an academically skilled and professionally qualified faculty and staff. We have diverse faculty members. They come from different backgrounds, have different degrees, and possess a wide range of educational experiences. Our faculty members are eager to share their knowledge of and expertise in the health care arena with their students. We also have an open door policy that encourages students to seek answers to their questions, allowing them to develop a solid understanding of the materials that they study.

All of these opportunities make the Dr. Pallavi Patel College of Health Care Sciences truly unique. The health care market is undergoing a rapid change. The pace of this change has provided a formidable challenge for institutions that provide the educational programs for future health care professionals. We are proud of the fact that we are training our students to become skilled and compassionate health care providers who are certain to make valuable contributions to the communities they serve. If you wish to become a graduate who is adequately prepared to assume a leadership role in health care, I encourage you to apply to our programs.

A handwritten signature in blue ink, appearing to read 'Stanley Wilson'. The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Stanley Wilson, Ed.D., PT, CEAS

Dean, Dr. Pallavi Patel College of Health Care Sciences

# Anesthesiologist Assistants

Certified anesthesiologist assistants (CAAs), also known as anesthetists, are highly educated and skilled allied health professionals. They work under the supervision of physician anesthesiologists to develop and implement anesthesia care plans. Certified anesthesiologist assistants work exclusively within the anesthesia care team environment as described by the American Society of Anesthesiologists (ASA). Certified anesthesiologist assistants possess a premedical background, a baccalaureate degree, and also complete a comprehensive didactic and clinical program at the graduate school level. Certified anesthesiologist assistants are trained extensively in the delivery and maintenance of quality anesthesia care as well as advanced patient monitoring techniques. The mission of the anesthesiologist assistant (AA) program is to prepare students for lifelong learning and leadership roles that will benefit the health care community. The educational process will be committed to training and educating competent anesthetists who will embrace the anesthesia care team to provide safe, quality, and compassionate anesthesia care for all degrees of illness for the surgical patient.

The Master of Science in Anesthesia program is dedicated to developing a well-rounded practicing CAA. Faculty members and current students are dedicated to the following objectives:

- to prepare competent, entry-level anesthesiologist assistants in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains
- to develop vigilant, knowledgeable, skilled, and compassionate anesthesia care providers who are capable of functioning within the anesthesia care team model in the delivery of all perioperative anesthesia services
- to inspire and prepare the future leaders in our profession for service in local, state, and national organizations that shall advance the utilization and practice of certified anesthesiologist assistants
- to advance anesthesiologist assistant education through the application of state-of-the-art technology and evidence-based learning practices that continue to support our student learning objectives



- to develop highly skilled, interdisciplinary, and culturally sensitive faculty members and students who model professionalism and exemplify ethical practice, effective communication, and organizational leadership
- to support the mission and goals of Nova Southeastern University, including our department, college, and division, in the provision of scholarship, service, teaching, and patient care



# Master of Science in Anesthesia Program

The Master of Science in Anesthesia (M.S.) program is fully accredited by the Commission on Accreditation of Allied Health and Education Programs (CAAHEP). The 27-month program consists of an intensive academic and didactic program that will prepare the student to function within the anesthesia care team. The students will get an extensive clinical training experience that will consist of a minimum of 2,000 clinical hours that encompass all aspects of anesthesia care for the surgical patient. Upon completion of the course of study, students will have earned a Master of Science in Anesthesia degree from Nova Southeastern University.

Students are trained in state-of-the-art facilities. The NSU Master of Science in Anesthesia programs are the only ones in the country to have four high-fidelity anesthesia simulators (two adult, one pediatric, and one baby). The student's educational experience is further enhanced by having two of the largest, fully functional operating rooms, as well as a mock postoperative and intensive care unit. A technologically advanced lecture hall, a student lounge, and anesthesia faculty member offices complete the AA facilities.

The first year (semesters 1, 2, 3, and 4) encompasses an in-depth course of study in the fundamentals of anesthesia through close, personal interaction with highly qualified faculty members and the latest available anesthesia technology. Clinical experience begins in the first year and will increase as the year progresses. The didactic curriculum, complemented by simulation learning, will provide the student with the necessary skills to meet the clinical objectives of the curriculum.

The senior year (semesters 5, 6, and 7) will consist of clinical rotations assigned in intervals ranging from two weeks to two months. During the senior year, clinical rotations are full time and involve all anesthesia subspecialties, including general surgery, pediatrics, obstetrics and gynecology, otolaryngology, orthopedics, neurosurgery, ophthalmology, genitourinary surgery, vascular surgery, cardiac surgery, thoracic surgery, transplantation, and trauma. Clinical rotations include days, evenings, nights, weekends, and on-call—depending upon the rotation.



Due to the highly integrated curriculum, the program requires admitted students to complete the entire program course of study. No advanced placement, transfer of credit, or credit for experiential learning will be granted. All students are discouraged from gaining employment at any time while in the program.



## Anatomical Differences

### Larynx Position

Infant: Larynx at C4\*

Adult: Larynx at C6\*

\*Approximate level

Infant: Larynx is closer to the oral cavity, which makes it more difficult to intubate the glottis. Common airway issues.

Adult: Larynx is further from the oral cavity, which makes it easier to intubate the glottis. Common airway issues.



# Frequently Asked Questions about the AA Profession

## What is the typical job description for a CAA?

The specific job descriptions and duties of CAAs may differ according to geographic area and local practice. State law or board of medicine regulations or guidelines may further define the job descriptions of CAAs. Certified anesthesiologist assistants practice under the direction of a qualified anesthesiologist. The CAA's functions include, but are not limited to, the duties listed below. They can

- obtain an appropriate and accurate preanesthetic health history, perform an appropriate physical examination, and record pertinent data in an organized and legible manner
- conduct diagnostic laboratory and related studies as appropriate, such as drawing arterial and venous blood samples
- perform and monitor regional anesthesia including (but not limited to) spinal, epidural, IV regional, and other special techniques, such as local infiltration and nerve blocks
- perform the insertion of invasive monitoring modalities, such as arterial lines, pulmonary artery catheterization, and central venous lines, as delegated by the supervising anesthesiologist
- administer anesthetic agents and any controlled substances under the medical direction of a supervising anesthesiologist including (but not limited to) administration of induction agents, maintaining and altering anesthesia levels, administering adjunctive treatment, and providing continuity of anesthetic care into and during the postoperative recovery period
- establish airway interventions and perform ventilatory support
- apply and interpret advanced monitoring techniques
- use advanced life support techniques, such as high-frequency ventilation and intra-arterial cardiovascular assist devices
- make post-anesthesia patient rounds by recording patient progress notes, compiling and recording case summaries, and transcribing standing and specific orders
- evaluate and treat life-threatening situations, such as cardiopulmonary resuscitation, on the basis of established protocols (BLS, ACLS, and PALS)
- perform duties in intensive care units, pain clinics, and other

settings, as appropriate

- train and supervise personnel in the calibration, troubleshooting, and use of patient monitors
- perform administrative duties in an anesthesiology practice or anesthesiology department, such as patient record management, procedure coding and billing, and management of personnel
- participate in the clinical instruction of others

## What is the accrediting body for an AA course of study?

The Commission on Accreditation of Allied Health Education Programs (CAAHEP) accredits AA training programs.

Commission on Accreditation of Allied Health Education Programs  
25400 U.S. Highway 19 North  
Suite 158  
Clearwater, Florida 33763

Phone: (727) 210-2350

Fax: (727) 210-2354

Website: [caahep.org](http://caahep.org)

## What is the certification process for a CAA?

The National Commission for Certification of Anesthesiologist Assistants (NCCAA) was founded in July 1989 to develop and administer the certification process for AAs in the United States.

Graduates or senior students in an AA educational program that has been accredited by CAAHEP may apply for initial certification. Initial certification is awarded to an AA who has successfully completed the Certifying Examination for Anesthesiologist Assistants administered by the NCCAA in collaboration with the National Board of Medical Examiners (NBME). Certified AAs are permitted to use the designation CAA to indicate that they are currently certified.

## Does a CAA have to Recertify?



Yes. In order to maintain certification after passing the initial examination, CAAs must submit documentation to the NCCAA that they have completed 40 hours of continuing medical education (CME) every two years. In addition, every six years they must pass the Examination for Continued Demonstration of Qualifications (CDQ).

### **Where Would a CAA Practice?**

The use of CAAs within the anesthesia care team across the country is a dynamic and evolving process. Therefore, in order to get the latest and most accurate information, please contact your state board of medicine or the American Academy of Anesthesiologist Assistants.



STUDENTS ARE provisionally admitted to a degree-seeking program based on a review of unofficial transcripts or other specific program admission requirements. However, this admission includes a condition that final and official transcripts, documents, and requirements must be received within 90 calendar days from matriculation. If these final and official transcripts, documents, and/or requirements are not received by that time, the student will not be allowed to continue class attendance. Financial aid will not be disbursed to a provisional/conditional student until he or she has been fully admitted as a regular student (all admissions requirements have been approved by the college/program admissions office). Students who have an unpaid balance 30 days from the start of the term will be assessed a \$100 late fee.

# Curriculum Outline

## Master of Science in Anesthesia • Tampa

Start Date: May

Length: 27 months

Degree: Master of Science in Anesthesia

Total Credit Hours: 114

Minimum Clinical Hours: 2,000

Note: MHS 5205 and ANET 6110 will be taken online

### Summer—Semester I (May–August)

Course #	Course Title	Credit Hours
ANET 5048	Medical Terminology.....	1
ANET 5081	Introduction to Clinical Anesthesia.....	2
ANET 5301	Anesthesia Laboratory I.....	3
ANET 5328	ECG for Anesthesiologist Assistant.....	2
ANET 5621	Principles of Airway Management I.....	2
ANAT 5420	Anatomy.....	5
PHST 5400	Physiology.....	3
<b>Total Credit Hours.....</b>		<b>18</b>

### Winter—Semester III (January–May)

Course #	Course Title	Credit Hours
ANET 5001	Clinical Anesthesia I.....	4
ANET 5102	Student Lecture Series II.....	1
ANET 5303	Anesthesia Laboratory III.....	3
ANET 5463	Pharmacology for Anesthesia II.....	2
ANET 5602	Applied Physiology for Anesthesia Practice II.....	3
ANET 5902	Anesthesia Principles and Practices II.....	2
<b>Total Credit Hours.....</b>		<b>15</b>

*Minimum Clinical experience: 150 hrs.*

### Fall—Semester II (September–December)

Course #	Course Title	Credit Hours
ANET 5101	Student Lecture Series I.....	1
ANET 5302	Anesthesia Laboratory II.....	3
ANET 5462	Pharmacology for Anesthesia I.....	2
ANET 5601	Applied Physiology for Anesthesia Practice I.....	3
ANET 5801	Instrumentation and Monitoring.....	2
ANET 5622	Principles of Airway Management II.....	2
ANET 5901	Anesthesia Principles and Practices I.....	2
ANET 5104	Principles of Life Support*.....	3
MHS 5205	Writing for Medical Publications.....	3
<b>Total Credit Hours.....</b>		<b>21</b>

\* Basic Life Support Certification and Advanced Cardiac Lifesaving , and pediatric Advanced Cardiac. Lifesaving will be obtained during this semester.

### Summer—Semester IV (May–August)

Course #	Course Title	Credit Hours
ANET 5000	Professional Issues in Anesthesiologist Assistant Practice.....	2
ANET 5002	Clinical Anesthesia II.....	3
ANET 5304	Anesthesia Laboratory IV.....	3
ANET 5603	Applied Physiology for Anesthesia Practices III.....	2
ANET 5903	Anesthesia Principles and Practices III.....	2
ANET 5103	Student Lecture Series III.....	1
ANET 5107	Internship.....	5
<b>Total Credit Hours.....</b>		<b>18</b>

*Minimum Clinical experience: 144 hrs.*

## Clinical Year, Fall—Semester V (September–December)

Course #	Course Title	Credit Hours
ANET 6001	Clinical Anesthesia III.....	13
<b>Total Credit Hours.....</b>		<b>13</b>

Minimum Clinical experience: 675 hrs.

## Clinical Year, Winter—Semester VI (January–May)

Course #	Course Title	Credit Hours
ANET 6002	Clinical Anesthesia IV.....	15
ANET 6110	Anesthesia Review.....	2
<b>Total Credit Hours.....</b>		<b>17</b>

Minimum Clinical experience: 675 hrs.

## Clinical Year, Summer—Semester VII (June–August)

Course #	Course Title	Credit Hours
ANET 6003	Clinical Anesthesia V.....	12
<b>Total Credit Hours.....</b>		<b>12</b>

Minimum Clinical experience: 356 hrs.

Curriculum is subject to change as directed by the department.

## Accreditation

Nova Southeastern University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate's, baccalaureate, master's, educational specialist, doctorate, and professional degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Nova Southeastern University.

## Nondiscrimination

Consistent with all federal and state laws, rules, regulations, and/or local ordinances (e.g., Title VII, Title VI, Title III, Title II, Rehab Act, ADA, and Title IX), it is the policy of Nova Southeastern University not to engage in any discrimination or harassment against any individuals because of race, color, religion or creed, sex, pregnancy status, national or ethnic origin, nondisqualifying disability, age, ancestry, marital status, sexual orientation, unfavorable discharge from the military, veteran status, or political beliefs or affiliations, and to comply with all federal and state nondiscrimination, equal opportunity, and affirmative action laws, orders, and regulations.

This nondiscrimination policy applies to admissions; enrollment; scholarships; loan programs; athletics; employment; and access to, participation in, and treatment in all university centers, programs, and activities. NSU admits students of any race, color, religion or creed, sex, pregnancy status, national or ethnic origin, nondisqualifying disability, age, ancestry, marital status, sexual orientation, unfavorable discharge from the military, veteran status, or political beliefs or affiliations, to all the rights, privileges, programs, and activities generally accorded or made available to students at NSU, and does not discriminate in the administration of its educational policies, admission policies, scholarship and loan programs, and athletic and other school-administered programs.



# Master of Science in Anesthesia



The Master of Science in Anesthesia curriculum includes some coursework (5 credits) designed to be completed in a distance-learning format. These courses complement student learning through interactive activities taught by an experienced faculty.

Students in the program are provided with NSU computer accounts including email. Students must obtain their own Internet service providers (ISP), use their own computer systems (PC or Apple Macintosh), and purchase a smartphone. New students receive an orientation and extensive online technical support dealing with online access, online tools and methods, and library resources. The online medical database collection at NSU is extensive and includes access to quality subscription services that are free for the student.

## Computer Requirements

All students are required to have a computer with the following minimum specifications:

- 2 GB RAM
- video and monitor capable of 1024 X 768 resolution or better
- sound card and speakers
- high-speed Internet connection with Internet service provider
- Windows 7 or equivalent MAC OS
- Microsoft Office 2000 or newer with PowerPoint, Word, and Excel minimum
- printer capability
- Android or iPhone smartphone (for use with electronic evaluations)

# Application Procedures

Nova Southeastern University participates in the Centralized Application Service for Anesthesiologist Assistants (CASAA) for the receipt and processing of all applications. CASAA takes no part in the selection of students. The CASAA may take up to six weeks verifying supporting documents. Therefore, early application is highly recommended. Applicants must

- complete the online CASAA application before February 15 (All applicants should apply online at <https://casaa.liasoncas.com>.)
- send the following supporting documents directly to CASAA:
  - all official college transcripts from all undergraduate, graduate, and professional institutions attended (sent to CASAA directly from the institutions)
  - three evaluation forms from supervisors or colleagues, clinical or nonclinical
  - résumé or curricula vitae
  - copies of national and professional certifications or licenses by a recognized certifying body (if applicable)
  - summary of an article published in a current anesthesia journal
  - evidence of eight hours of documented anesthesia exposure

Once the CASAA application has been received by Nova Southeastern University, an NSU supplemental application will be made available to applicants. The NSU application is available beginning April 15 until March 15 of the next year. In addition to completing the online NSU supplemental application, applicants must submit the following:

- \$50, nonrefundable application fee
- official Graduate Record Examination (GRE) scores

GRE scores must be less than five years old from the date of application and must be taken early enough for official scores to be received by the CASAA deadline of February 15.

The NSU code number is **5522**.

Completed NSU applications without a completed CASAA

application will not be considered.

After NSU receives the supplemental application, the \$50 fee, and GRE scores, the applicant's application will be reviewed. The Committee on Admissions will not consider an application until all required fees, credentials, and evaluations have been received by NSU.

If applicant attended or is a graduate of a foreign institution, all coursework from the foreign institution must be evaluated for U.S. institutional equivalence. The official evaluation must be sent directly from an approved National Association of Credential Evaluation Services (NACES) evaluation service, such as one of the services listed below.

## **World Education Services, Inc.**

Bowling Green Station  
P.O. Box 5087  
New York, New York 10274-5087  
(212) 966-6311 • [wes.org](http://wes.org)

## **Josef Silny and Associates, Inc.**

7101 SW 102nd Avenue  
Miami, Florida 33173  
(305) 273-1616 • (305) 273-1388 (fax)  
[jsilny.com](http://jsilny.com)

## **Educational Credential Evaluators, Inc.**

P.O. Box 514070  
Milwaukee, Wisconsin 53203-3470  
(414) 289-3400 • [ece.org](http://ece.org)

It is the applicant's responsibility to have this coursework evaluated. An official course-by-course evaluation with a cumulative grade point average must be sent directly from the evaluation service to CASAA.



# Application Procedures (Continued)

## Personal Interview

Personal interviews are by invitation only and are an integral part of the admissions process. Not all applicants will be granted an interview by the program, and an interview is not a guarantee of admission. The program processes applications on a “rolling” or periodic basis. It is in the best interest of prospective students to complete their applications early because of the limited number of positions in the class.

## Current College Coursework

All prerequisite coursework must be completed by the start of class in order to be considered for admission. If, at the time of the application, coursework is in progress or anticipated, please identify these courses on the supplemental application.

## Transcripts

All applicants who are accepted must submit official transcripts of all completed coursework to the NSU Enrollment Processing Services prior to matriculation. It is the responsibility of the applicant to ensure that arrangements are made for these transcripts to be sent to

Nova Southeastern University  
Enrollment Processing Services  
Dr. Pallavi Patel College of Health Care Sciences  
Anesthesiologist Assistant Admissions  
3301 College Avenue, P.O. Box 29900  
Fort Lauderdale, Florida 33329-9905

Transcripts can be sent electronically from the originating college/university to the following address:

***electronictranscripts@nova.edu.***





# Admissions Requirements

Prospective anesthesiologist assistant students are selected by the Committee on Admissions (COA), which considers the overall qualities of the applicant. Areas of consideration include interpersonal skills, personal motivation, knowledge and understanding of the AA profession and the Anesthesia Care Team, academic performance and level of achievement, life experiences, and recommendations. Personal interviews are offered to the most qualified applicants to assess interpersonal and communication skills, altruistic attitude, maturity, and commitment to the AA profession and anesthesia care team model.

Applicants must submit the following:

1. evidence of a baccalaureate degree from a nationally recognized and regionally accredited college or university, including above-average performance in courses required in a premed curriculum (refer to required courses below)

## Required Courses

Course	# of Semesters Needed
General biology with lab OR	
Anatomy and physiology with lab.....	2
General chemistry with lab.....	2
Organic chemistry with lab.....	1
Biochemistry.....	1
General Physics with lab.....	2
Calculus.....	1
English composition.....	1

## Preferred Courses—Not Required

Course	# of Semesters Needed
Anatomy with lab.....	1
Physiology.....	1
Organic chemistry.....	a second semester
Microbiology*.....	1
Cellular and molecular biology*.....	1

\*An advanced course in microbiology or cellular and molecular biology is preferred and would meet one semester of the general biology requirement. 1 semester = 1.5 quarters

Note: A 2.0 [C] or better is required in all prerequisite classes.

2. official transcripts of all undergraduate and graduate coursework
3. evidence of a minimum cumulative GPA of 2.75 on a 4.0 grading scale—minimum GPA of 3.25 preferred
4. Graduate Record Examination (GRE) or Medical College Admissions Test (MCAT) scores (must have been taken within the past five years and must be taken early enough for official scores to be received by admissions office by the supplemental application due date of March 15)

NSU's GRE code is **5522**.

The GRE information can be obtained from [gre.org](http://gre.org). Information for the MCAT is at [aamc.org/students/mcat](http://aamc.org/students/mcat).

5. three letters of recommendation from individuals familiar with the applicant's prior academic performance, potential, character, work habits, and suitability for graduate study leading into a career in clinical practice
6. documented anesthesia exposure—by observation in the operating room—of at least eight hours
7. summary of an article published in a current anesthesia journal
8. demonstrated evidence of computer skills, through coursework or self-study, prior to the end of the first semester (instruction may be obtained through NSU Student Microcomputer Laboratory or other training facilities)

The applicant who has graduated from a college or university of a country for which English is not the primary language, regardless of United States' residency status, must obtain a minimum score of 600 on the written or 213 on the computerized Test of English as a Foreign Language (TOEFL). An official set of scores must be sent directly from the Educational Testing Service in Princeton, New Jersey, to NSU's EPS.

# Tuition, Fees, Expenses, and Financial Aid

Tuition for 2019–2020 will be posted on our website ([nova.edu /chcs/healthsciences/anesthesia/index.html](http://nova.edu/chcs/healthsciences/anesthesia/index.html)). A Health Professions Division general access fee of \$145 is required each year. An NSU student services fee of \$1,350 is also required annually. In addition, a clinical support fee of \$475 will be assessed in each of the five semesters of clinical training. All tuition and fees are subject to change by the board of trustees without notice.

- 1. Acceptance Fee—\$500.** This fee is required to reserve the accepted applicant's place in the entering first-year class, but is not refundable in the event of a withdrawal. It is payable within two weeks of an applicant's acceptance.
- 2. Deposit—\$250.** This is due February 15, under the same terms as the Acceptance Fee.
- 3. Preregistration Fee—\$250.** This is due April 15, under the same terms as the Acceptance Fee.

The first semester's tuition and fees, less the \$1,000 previously paid, are due on or before registration day. Tuition for each subsequent semester is due on or before the appropriate registration day. Students will not be admitted until their financial obligations have been met. The financial ability of applicants to complete their training at the college is important because of the limited number of positions available in each class. Applicants should have specific plans for financing 27 months of professional education. This should include tuition, living expenses, books, equipment, and miscellaneous expenses.

Each student is required to carry adequate personal medical and hospital insurance. Students may avail themselves of the hospitalization insurance plan obtainable through the university.

Students should anticipate spending approximately \$19,000 per year for living expenses. In addition, students should anticipate spending \$5,000 for books and equipment during the 27-month program. If the student participates in clinical rotations outside the South Florida area, the student may incur additional housing and other living expenses.

The primary financial responsibility for a student's education rests with

the student and his or her family. Economic circumstances for some families may make it necessary for the student to obtain assistance from other sources.

The purpose of the Student Financial Assistance Program at NSU is to help as many qualified students as possible to complete their health professions education. Various loans, scholarships, and grants are available to qualified students to help ease the high cost of a health professions education. These financial assistance programs are described in a variety of separate university publications.

For information on financial assistance, contact

Nova Southeastern University  
Office of Student Financial Assistance  
3301 College Avenue  
Fort Lauderdale, Florida 33314-7796  
  
(954) 262-3380  
800-806-3680

A limited number of part-time work assignments are available. However, due to the demands of the program curriculum, the program strongly discourages any outside employment.





# Additional Sources of Information

With an emphasis on leadership and professional development, and to maximize the governmental and political understanding of the AA profession, students in the Master of Science in Anesthesia Program at NSU will be required to obtain student membership with the American Academy of Anesthesiologist Assistants (AAAA), American Society of Anesthesiologists (ASA), Florida Society of Anesthesiologists (FSA), and Florida Academy of Anesthesiologists Assistants (FAAA). Participation via attendance at the annual conferences for the organizations listed above is highly encouraged.

- For information on a career as a certified anesthesiologist assistant, contact

## **American Academy of Anesthesiologist Assistants**

1231 Collier Road, NW

Suite J

Atlanta, Georgia 30318

Phone: (678) 222-4221

Fax: (404) 249-8831

Email: [info@anesthetist.org](mailto:info@anesthetist.org)

Website: [anesthetist.org](http://anesthetist.org)

- For information on the certification process for certified anesthesiologist assistants, contact

## **National Commission for Certification of Anesthesiologist Assistants**

100 Cynthiana Street

Williamstown, Kentucky 41097

Phone: (859) 903-0089

Email: [business.office@aa-nccaa.org](mailto:business.office@aa-nccaa.org)

Website: [nccaa.org](http://nccaa.org)

- For information about the anesthesia care team, contact

## **American Society of Anesthesiologists**

520 N. Northwest Highway

Park Ridge, Illinois 60068-2573

Website: [asahq.org](http://asahq.org)

## **Florida Society of Anesthesiologists**

701 Brickell Avenue

Suite 1550

Miami, Florida 33131

Phone: (786) 300-3183

Fax: (310) 437-0585

Email: [executiveoffice@fsahq.org](mailto:executiveoffice@fsahq.org)

Website: [fsahq.org/](http://fsahq.org/)

- For accreditation information, contact

## **Commission on Accreditation of Allied Health Education Programs (CAAHEP)**

25400 U.S. Highway 19 North

Suite 158

Clearwater, Florida 33763

Phone: (727) 210-2350

Fax: (727) 210-2354

- For information about the NSU AA program or to request an AA admissions application packet, please contact the NSU admissions office.

Nova Southeastern University

Health Professions Division

Master of Science in Anesthesia

3200 South University Drive

Fort Lauderdale, Florida 33328-2018

Phone: (954) 262-1101

Toll Free: 800-356-0026, ext. 21101

Website: <http://healthsciences.nova.edu/healthsciences/anesthesia/index.html>

Disclaimer: Links to non-NSU sites are provided for your convenience and do not constitute an endorsement.

# Student Housing

Numerous apartments, condominiums, and other rental facilities are located near campus. Limited on-campus housing is also available. Information concerning on- and off-campus housing may be obtained by contacting

Nova Southeastern University

Office of Student Affairs

3632 Queen Palm Drive

Tampa, Florida 33619-1311

(813) 574-5298





# City of Tampa, Florida



Welcome to Tampa Bay. Situated along Florida's Gulf Coast, this region boasts an enviable quality of life with year-round sunshine, a unique cultural heritage, and a diverse business climate. For individuals and companies alike, Tampa offers accessibility, affordability, and opportunity.

Tampa is the hub of Hillsborough County and one of the largest metropolitan areas in the Southeast. The four-county metropolitan statistical area of Hillsborough, Pinellas, Pasco, and Hernando counties has a population of 2.7 million, making it the 19th largest metropolitan statistical area in the United States. We boast a diverse and expanding mix of businesses, from financial services and bioscience to technology and international trade. As the economy begins to kick back into gear, the Tampa Bay region is looking to a bright future of continued job creation. This will be particularly true of the industry clusters that make Tampa the gateway to Florida's High Tech Corridor (including life sciences, nanotechnology, aviation/aerospace, and homeland security/defense).

Newcomers to the region will be delighted to discover a vibrant arts community alive with contemporary art and a deep respect for our unique cultural heritage. In February 2010, Tampa celebrated the opening of the Tampa Museum of Art's new facility along the Hillsborough River in downtown Tampa. The museum is located in the brand new Curtis Hixon Downtown Waterfront Park, which will also soon be home to the Glazer Children's Museum, currently under construction. Besides enjoying Tampa Bay's beautiful beaches, millions of

people experience Busch Gardens annually, and the Lowry Park Zoo is ranked as the number one Family Friendly Zoo in the country. Other major attractions include the outstanding Florida Aquarium, the Museum of Science and Industry, and the Big Cat Rescue.

Sports and Tampa Bay are an unbeatable combination. Professional sports teams keep spectators on their feet with championship runs, while perfect weather and a pristine physical environment make Tampa Bay an outdoor enthusiast's paradise. Tampa has very active professional sports teams, including the NFL's Tampa Bay Buccaneers, MLB's Tampa Bay Rays, and the NHL Tampa Bay Lightning. The New York Yankees call Tampa their home for spring training, while the University of South Florida Bulls and University of Tampa Spartans provide multiple NCAA sports for the area.

Tampa Bay enjoys an average temperature of 73 degrees Fahrenheit and holds the record for the most consecutive days of sunshine—768 to be exact. This tropical climate makes Tampa a great place to play. From canoeing the scenic Hillsborough River to biking or jogging alongside the bay, Tampa has something for everyone. Fish from a pier or charter a deep-sea fishing boat. Play at one of Tampa's dozens of beautiful golf courses year-round. Enjoy a walk on the beach at sunset. The opportunities for physical activity are endless.





Artist's Rendering

## Tampa Bay Regional Campus

### Nova Southeastern University Tampa Campus Current Location

3632 Queen Palm Drive  
Tampa, Florida 33619-1311  
(813) 574-5200

#### From Cities North of Tampa

- Take I-75 South to Mango exit, exit 260 (Martin Luther King Boulevard)
- Exit onto Martin Luther King Boulevard (west)
- Turn left onto Falkenburg Road
- Turn right onto Queen Palm Drive (2nd right)
- The campus will be on your right-hand side.

#### From Cities South of Tampa

- Take I-75 North to Mango exit, exit 260B (Martin Luther King Boulevard)
- Exit onto Martin Luther King Boulevard (west)
- Turn left onto Falkenburg Road
- Turn right onto Queen Palm Drive (2nd right)
- The campus will be on your right-hand side.

Dr. Kiran C. Patel and his wife, Dr. Pallavi Patel, are developing a \$150-million campus in the Tampa Bay area for Nova Southeastern University. The site will be an additional location for the osteopathic medicine program. Programs from the health care sciences college and the nursing college (recently renamed for generous donors Ron and Kathy Assaf), as well as other university programs currently located in the Tampa area, will also be housed there. These will include anesthesiologist assistant, cardiovascular sonography, advanced practice family nurse practitioner, occupational therapy, physical therapy, and speech-language pathology. The new, 27-acre Tampa Bay Regional Campus will consist of a 325,000-square-foot, medical-education complex in Clearwater, Florida.

In the new facility, NSU students will have access to state-of-the-art auditoriums, simulation laboratories, two functional operating rooms, and videoconferencing suites. They also will have full online access to the items in NSU's Alvin Sherman Library, Research, and Information Technology Center at the Fort Lauderdale/Davie Campus. The new campus will be ready for students in 2019.



NOVA SOUTHEASTERN  
UNIVERSITY

Current Tampa Campus  
3632 Queen Palm Drive  
Tampa, Florida 33619-1311

Phone: (813) 574-5200

Health Professions Division  
3200 South University Drive  
Fort Lauderdale, Florida 33328-2018

Office of Admissions  
(954) 262-1101 • 877-640-0218

***nova.edu***

