Drugs of Pharmacy (Pharm.D.)
Master of Science (M.S.)
in Pharmaceutical Affairs
Master of Science (M.S.)
in Pharmaceutical Sciences
Doctor of Philosophy (Ph.D.)
in Pharmaceutical Sciences
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.
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.
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.

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 Sciences [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 [D.O.T.]
- Doctor of Philosophy in Occupational Therapy [Ph.D.]
- Doctor of Physical Therapy [D.P.T.]
  - Professional Doctor of Physical Therapy [P.D.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 Audiology 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.]
NSU College of Pharmacy (COP) attracts high-achieving candidates and provides state-of-the-art education to students seeking to become clinical pharmacists or researchers, as well as those seeking positions in academia, the pharmaceutical industry, governmental and nongovernmental agencies, and health care systems, and who are leaders and catalysts for change. Pharmacy is a rewarding, dynamic profession, one that beckons outstanding students to explore its many opportunities in the changing health care environment. The diverse educational experience NSU COP graduates receive gives them the ability to thrive in all areas of the profession, now and in the future.

At the heart of our college are our exceptional students who are mentored by committed and talented faculty members and preceptors in a rich learning environment. Our faculty members are recognized as experts in their field and are dedicated to providing quality professional and graduate education focusing on academic excellence. Students have ample opportunities to develop leadership skills; participate in community health-related activities, internships, health fairs, and active learning outside the classroom; and engage in research and scholarship. These activities promote active engagement early in the profession within a diverse, interprofessional community of students and faculty and staff members.

As a member of the Health Professions Division, students have the opportunity to be part of an interprofessional, collaborative team, a necessary component of progressive health care. The college provides high-quality, interactive education, using live videoconferencing to campuses in Fort Lauderdale/Davie, Miami, and Palm Beach, Florida, and San Juan, Puerto Rico.

We boast outstanding alumni who have been successful in their chosen career environments and who selflessly provide ongoing education and mentoring to our students.

We are proud of our faculty members, students, and alumni and look forward to receiving your application, and you becoming part of our #Pharmily. I encourage you to make NSU COP your destination for pharmacy and graduate education.

Lisa Deziel, Pharm.D., Ph.D.
Dean

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.
Overview of Programs

Students can prepare for a career in pharmacy practice, research, industry, academia, and other pharmacy-related areas through the professional Pharm.D. program, the M.S. in Pharmaceutical Affairs program, the M.S. in Pharmaceutical Sciences program, or the Ph.D. program.

The patient care pharmacist, often referred to as a clinical pharmacist, is highly educated in disease process, pharmacotherapy, and patient monitoring. Pharmacists review patient history and disease manifestations to guide the selection of cost-effective therapy. To optimize the outcome of medication use, the pharmacist maintains communication with patients, maximizing adherence to prescribed medication and patient response to therapeutic agents. Pharmacists work closely with interprofessional teams, including physicians, nurses, and other members of the health care team, to review and modify patient-care plans to improve patient outcomes, as required. Pharmacists emphasize disease prevention by providing immunizations, smoking cessation programs, and education about prominent chronic disease states.

Ph.D. graduates focus on expanding the science of drug knowledge by creating and testing new drug molecules or using technology to develop new dosage forms. This field responds to limitations in caring for patients identified by practicing pharmacists. The pharmaceutical scientist is very knowledgeable in pharmacology, pharmaceutics, pharmacokinetics, drug administration, and the complex nature of the use and distribution of pharmaceutical products and the provision of pharmacy services.


The Master of Science (M.S.) in Pharmaceutical Affairs prepares students to critically analyze issues related to the production and use of pharmaceuticals and act as leaders in the field. Graduates are prepared to work with health care professionals in the pharmaceutical industry, academia, and governmental and nongovernmental agencies.

History of the College of Pharmacy

Nova Southeastern University's College of Pharmacy (NSU COP) admitted its first class of students in 1987, becoming the first college of pharmacy in South Florida. In fall 2000, responding to a growing pharmacist shortage, the college extended its programming to Palm Beach, Florida, and Ponce, Puerto Rico, in 2001 (since relocating to San Juan, Puerto Rico). In 2002, the Pharm.D. program again expanded to accept international pharmacy graduates. The three-year Advanced Standing curriculum allows pharmacists educated outside the United States to earn a Pharm.D. degree and take U.S. board licensing exams.

Today, the college boasts four campuses: Fort Lauderdale/Davie, Miami, and Palm Beach, Florida, and San Juan, Puerto Rico. Each campus has separate administration, faculty, and staff. All students are taught by a diverse faculty who engage students synchronously using state-of-the-art videoconferencing technology. Each year, the college graduates more than 220 students who enter a variety of pharmacy career pathways, including residencies and fellowships. These graduates join the more than 4,500 NSU COP alumni who are leaders in the profession, paving the way for future pharmacists.
Pharmacy Information Highlights

Since its inception and admission of the charter class in 1987, NSU COP has been a leader in pharmacy education and research throughout the United States. The college

- is first in doctoral-professional degrees in pharmacy to Hispanic or Latino students (2014–2015 IPEDS*)
- is 14th in doctoral-professional degrees in pharmacy to black or African American students (2014–2015 IPEDS*)
- has graduated more than 4,500 pharmacists
- developed pharmacy residency programs in general pharmacy practice, ambulatory care, community pharmacy, drug information, HIV/infectious disease, psychiatry, and transitions of care
- developed fellowship programs in consumer health informatics, neurocognitive pharmacy, and pediatric pharmacotherapy, accountable care, and community pharmacy
- developed two ambulatory care pharmacies for innovative teaching and developing the pharmacists’ expanding roles
- developed a Drug Information Center in Puerto Rico
- inaugurated the country’s first Center for Consumer Health Informatics Research (designated as the world’s first World Health Organization’s Collaborating Center in Consumer Health Informatics)
- developed collaborative agreements with international colleges of pharmacy
- implemented a pathway for international pharmacy graduates to obtain a Pharm.D. degree
- involves faculty members and student researchers in state-of-the-art, groundbreaking research at the Center for Collaborative Research
- maintains dual admission programs with several other universities and NSU’s undergraduate programs
- developed creative and entrepreneurial programs to enhance student education and promote advocacy, e.g., PharmaCon, CareeRx, ShadowRx, and LeadersRx
- created the concept for a health fair to be conducted in conjunction with Florida Pharmacists Legislative Days in Tallahassee, Florida
- provided unique, themed, continuing education pharmacy programs
- initiated a postgraduate certificate in education
- implemented travel study programs to Argentina, China, Japan, Puerto Rico, Slovakia, Spain, and the United Kingdom
- participated in interprofessional medical missions to Jamaica, Dominican Republic, and Guatemala
- created a healing and medicinal garden with tropical plants from around the world
- built the first foot reflexology pathway on the U.S. east coast

* National Center for Education Statistics—Integrated Post-secondary Education Data System (IPEDS)

College of Pharmacy

Mission, Vision, Values

Mission
to educate and develop practitioners and researchers who, through their leadership and entrepreneurship, will transform the profession of pharmacy to improve global health

Vision
to be recognized as an innovative and entrepreneurial college of pharmacy providing opportunities that encourage innovation in education, practice, and research

Values
- Entrepreneurship
- Excellence
- Innovation
- Integrity
- Professionalism
- Respect for Diversity
- Service
- Teamwork

Health Professions Division | 7
We are very proud of the accomplishments of our students and encourage their participation in activities that support the mission, vision, and values of the Nova Southeastern University College of Pharmacy. Below is a list of honor and leadership societies, professional organizations, and fraternities in which students can participate.

**College of Pharmacy Student Government Association (COP-SGA)**

The COP-SGA is the official voice for all pharmacy students. The organization is open to all students and welcomes proposals and participation from the entire student body. The responsibilities of the COP-SGA include collecting and expressing student opinion, dispensing funds for student activities, acting as a liaison for the student body, promoting pharmacy, supporting club and class activities, and working to improve the quality of life for all students at the College of Pharmacy.

**Honor Society**

Rho Chi

**Leadership Society**

Phi Lambda Sigma

**Professional Organizations**

- Academy of Managed Care Pharmacy (AMCP)
- American Pharmacists Association Academy of Student Pharmacists (APhA-ASP)
- American Society of Consultant Pharmacists (ASCP)
- Christian Pharmacist Fellowship International (CPFI)
- College of Psychiatric and Neurologic Pharmacists (CPNP)
- International Pharmaceutical Students Federation (IPSF)
- International Society of Pharmacoeconomics and Outcomes Research (ISPOR)
- Jewish Pharmacy Student Organization (JPSO)
- National Community Pharmacists Association (NCPA)
- Ph.D. Graduate Pharmacy Association (PGPA)
- Student College of Clinical Pharmacy (SCCP)
- Student National Pharmaceutical Association (SNPhA)
- Student Society of Health Systems Pharmacists (SSHP)

**Fraternities**

- Alpha Zeta Omega
- Kappa Psi
- NSU Phi Kappa Phi
- Phi Delta Chi
- Phi Lambda Sigma
The practice of pharmacy is rapidly evolving from a product-based profession to a patient-centered profession. Dispensing of drugs will always remain a fundamental role of the pharmacist; however, the patient, the prescriber, and health insurers now expect pharmacists to influence the selection of medication and to monitor patient outcomes for disease improvement and the minimization of drug-induced side effects. The pharmacist must have a strong foundation of drug knowledge and be skilled in applying that knowledge to clinical situations, making critical decisions and communicating with the health care team.

The goal of the curriculum is to graduate a highly competent general practitioner. The NSU College of Pharmacy (COP) recognizes that students need an educational experience that prepares them for their careers. In fall 2018, an innovative curriculum was implemented for incoming students. The curriculum is designed to supplement knowledge with advanced skills and attitudes that are necessary to provide patient-centered care. In the classroom, students are exposed to active learning exercises, including case studies, discussions, projects, and team-based learning, to better understand the need for therapeutic interventions. Students complete laboratory experiences and learn how to create dosage forms; work in a sterile environment; and communicate with prescribers, patients, and an interprofessional team. Students are placed in professional pharmacies to experience real-life situations. As a result of these components of education, the students will prepare in the classroom, practice in the laboratory, and perform in the clinical site.

The curriculum is taught using concentrated blocks of specific information in brief periods of time. It is sequenced so that each successive block builds upon the previous blocks to minimize the natural degradation of memory seen in other curricula.

The curriculum provides students with extensive experience in pharmacy settings with a pharmacist preceptor. Two levels of practice occur, the Introductory Pharmacy Practice Experience (IPPE) and the Advanced Pharmacy Practice Experience (APPE). IPPEs are performed in the first three years of the curriculum. Students are exposed to pharmacy operations, medication distribution processes, and the role of the pharmacist in health care. APPEs take place in the final year. Students interact with patients, prescribers, and members of the health care team to provide direct patient care, as well as management of the medication distribution process. Students perform each of these components in a community, hospital, or clinic setting.

A unique component to the curriculum will be student experience gained through certification processes. Licensed pharmacists earn certifications that allow them to perform specific clinical functions, such as immunization, medication therapy management, sterile technique, cardiovascular risk factors, management of the diabetic patient, and medication safety. Faculty members in the college have the credentials necessary to represent national organizations that provide the certificates to students and pharmacists. Student pharmacists will earn certificates in several topics to increase their appeal to employers and residency programs.

The student is at the heart of NSU-COP and is continually being developed professionally through the curriculum. Faculty mentors guide students and help them develop leadership and professional goals. In addition, an electronic portfolio, FolioRx, stores examples of student achievement and a professional curriculum vitae (CV). The portfolio is another important tool for graduates to impress employers and record individual achievements. The college also provides a computerized database and career office to provide advice on career opportunities and one to identify pharmacists within those careers to shadow.

Students may enter either the four-year, entry-level program or the three-year, advanced standing program for international pharmacy graduates (see admissions requirements for each program for more information).

The entry-level curriculum outline provided is representative of students entering the Pharm.D. degree program and must be completed within six academic years of the date of matriculation.
The Advanced Standing Program educates students to achieve the same outcomes as the entry-level Pharm.D. degree program, but in an accelerated format. Courses are taken with the entry-level students in an integrated classroom. Students admitted with advanced standing may have individualized coursework, depending on their previous pharmacy coursework.

The advanced standing curriculum outline provided is representative of the typical international pharmacy graduate entering the Pharm.D. degree program and must be completed within five academic years of the date of matriculation.

**All Students**

Coursework in both the entry-level and the advanced standing program prepare students to take the North American Pharmacist Licensing Examination (NAPLEX) and the Multistate Pharmacy Jurisprudence Examination (MPJE).

All students require a valid U.S. Social Security number in order to obtain a Florida intern license, which is a program requirement. Students are responsible for having reliable transportation to attend assigned experiential sites, which may be several miles from their homes or campuses. APPEs are full-time commitments for students, requiring a minimum of 40 hours per week. Students may also be required to secure accommodation at APPE sites away from their home location. APPEs may be taken in any sequence; however, students may not begin APPEs until all required didactic courses, electives, IPPEs, and assessments are successfully completed.

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.
The College of Pharmacy selects students based on pre-pharmacy academic performance, Pharmacy College Admission Test (PCAT) scores, personal interviews, written applications, and letters of evaluation.

1. Prior to matriculation, all NSU College of Pharmacy applicants must complete a minimum of 64 semester hours of coursework at a regionally accredited college or university, including the following required courses, with a grade of 2.0 or higher on a 4.0 scale.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>SEMESTER HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Biology I and II including laboratory</td>
<td>6</td>
</tr>
<tr>
<td>Anatomy and Physiology</td>
<td>6</td>
</tr>
<tr>
<td>(with or without laboratory)</td>
<td></td>
</tr>
<tr>
<td>General Chemistry including laboratory</td>
<td>8</td>
</tr>
<tr>
<td>Organic Chemistry including laboratory</td>
<td>8</td>
</tr>
<tr>
<td>General Physics (with or without laboratory)</td>
<td>3</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Calculus</td>
<td>3</td>
</tr>
<tr>
<td>Speech/Public Speaking/Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>(in English)</td>
<td></td>
</tr>
</tbody>
</table>

Advanced Sciences [choose two of the following courses: genetics, cellular biology, molecular biology, microbiology, or biochemistry] ........................................... 6 *

Humanities/Social/Behavioral Sciences

| Social/Behavioral Sciences                                          | 3              |
| Humanities                                                          | 3              |
| Electives in either discipline                                      | 9 **           |

**No two classes taken should be from the same discipline.

**Ethics, micro or macroeconomics, and general/life sciences statistics are highly recommended and may substitute for up to 9 humanities and social/behavioral science elective credits.

2. Applicants must have a cumulative GPA of 2.75 or higher and a minimum science and math GPA of 2.0 or higher on a 4.0 scale.

3. Applicants must submit official scores from the Pharmacy College Admission Test (PCAT)*. PCAT scores must be no more than three years old at the time of the applicant’s interview.

Applicants should take the PCAT no later than February prior to the expected date of matriculation. Candidates may register online at pcatweb.info or call 800-622-3231 with any questions.

4. Three letters of reference from the pre-professional committee—or if such a committee does not exist, letters of reference from two science professors and one liberal arts professor—are necessary. A letter of reference from a pharmacist may substitute for one letter from a professor in either subject.

* NSU COP will accept scores from the following health-related admissions tests in place of the PCAT: MCAT, DAT, or OAT.
Application Procedures • Pharm.D. Entry-Level Program

Primary Application Process
Applicants apply for matriculation into the fall semester. The Office of Admissions processes applications on a rolling basis; therefore, it is in the best interest of the applicant to apply early. Listed below are the steps necessary to complete the primary application process.

1. Applicants must submit a PharmCAS application electronically. An interactive web-based application can be accessed through PharmCAS.org.
   - The deadline for submitting a PharmCAS application for Early Decision is September 4.
   - The deadline for submitting a PharmCAS application for regular admission is February 1.
   - The PharmCAS application process takes four to six weeks.

2. Applicants must submit the following materials to PharmCAS:
   - official transcripts from all college and universities attended (must be submitted directly to PharmCAS by the college or university)*
   - three letters of reference
   - PCAT scores

Secondary Application Process
In addition to completing the PharmCAS application, NSU requires the completion of a supplemental application. Upon receipt of the PharmCAS application, NSU will email a link to access our supplemental application.

Applicants must submit the following materials electronically to NSU:

1. a completed supplemental application
   - due October 10 for applicants requesting Early Decision
   - due March 15 for applicants applying for regular admission

2. a nonrefundable application fee of $50 (U.S.)

Interview Process
For information on the interview process, please see page 34.

* For information on foreign coursework, please see page 33.

Early Decision
The Early Decision Program is a binding option for applicants who decide that a particular Pharm.D. program is their first choice, and they will enroll if accepted. As an Early Decision applicant, you can apply to only one Pharm.D. program. If you are offered admission as an Early Decision applicant, you are obligated to accept the offer, and you will not be permitted to apply to other PharmCAS Pharm.D. programs during the current admissions cycle. However, if you are denied admission as an Early Decision applicant, you may apply to other Pharm.D. programs. Visit the PharmCAS website at PharmCAS.org for more information.
These courses are representative of the overall requirements of the program at the time of publication and are subject to change. Updates to the curriculum will be posted on the college web page [pharmacy.nova.edu](http://pharmacy.nova.edu).

### Entry-Level Pharm.D.

#### First Year

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient Care Basics</td>
<td>2</td>
</tr>
<tr>
<td>Biochemical Basis of Drug Therapy</td>
<td>2</td>
</tr>
<tr>
<td>Fundamentals of Pharmacodynamics</td>
<td>3</td>
</tr>
<tr>
<td>Dosage Forms and Drug Delivery</td>
<td>4</td>
</tr>
<tr>
<td>Pharmaceutical Calculations</td>
<td>1</td>
</tr>
<tr>
<td>Essentials of Professional Practice I</td>
<td>2</td>
</tr>
<tr>
<td>Evidence-Based Practice I</td>
<td>1</td>
</tr>
<tr>
<td>Leadership and Professional Development I</td>
<td>1</td>
</tr>
<tr>
<td>Pharmacy Skills Development I</td>
<td>1</td>
</tr>
<tr>
<td>Integrated Pharmacy Applications I</td>
<td>2</td>
</tr>
<tr>
<td>Nonprescription Drugs and Self-Care</td>
<td>3</td>
</tr>
<tr>
<td>Individualized Drug Therapy I: Pharmacokinetics</td>
<td>3</td>
</tr>
<tr>
<td>Individualized Drug Therapy II: Special Populations</td>
<td>2</td>
</tr>
<tr>
<td>Integrated Disease Management I</td>
<td>3</td>
</tr>
<tr>
<td>Essentials of Professional Practice II</td>
<td>2</td>
</tr>
<tr>
<td>Evidence-Based Practice II</td>
<td>2</td>
</tr>
<tr>
<td>Leadership and Professional Development II</td>
<td>1</td>
</tr>
<tr>
<td>Pharmacy Skills Development II</td>
<td>1</td>
</tr>
<tr>
<td>Integrated Pharmacy Applications II</td>
<td>2</td>
</tr>
<tr>
<td>APPE: Community Practice Experience</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total First Year</strong></td>
<td><strong>42</strong></td>
</tr>
</tbody>
</table>

#### Second Year

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient and Physical Assessment</td>
<td>2</td>
</tr>
<tr>
<td>Integrated Disease Management II</td>
<td>4</td>
</tr>
<tr>
<td>Integrated Disease Management III</td>
<td>4</td>
</tr>
<tr>
<td>Essentials of Professional Practice III</td>
<td>2</td>
</tr>
<tr>
<td>Evidence-Based Practice III</td>
<td>2</td>
</tr>
<tr>
<td>Leadership and Professional Development III</td>
<td>1</td>
</tr>
<tr>
<td>Pharmacy Skills Development III</td>
<td>1</td>
</tr>
<tr>
<td>Integrated Pharmacy Applications III</td>
<td>2</td>
</tr>
<tr>
<td>Immunology and Clinical Microbiology</td>
<td>2</td>
</tr>
<tr>
<td>Integrated Disease Management IV</td>
<td>5</td>
</tr>
<tr>
<td>Integrated Disease Management V</td>
<td>3</td>
</tr>
<tr>
<td>Essentials of Professional Practice IV</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Third Year

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterile Products Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Integrated Disease Management VI</td>
<td>1</td>
</tr>
<tr>
<td>Integrated Disease Management VII</td>
<td>4</td>
</tr>
<tr>
<td>Integrated Disease Management VIII</td>
<td>1</td>
</tr>
<tr>
<td>Essentials of Professional Practice V</td>
<td>4</td>
</tr>
<tr>
<td>Evidence-Based Practice V</td>
<td>2</td>
</tr>
<tr>
<td>Leadership and Professional Development V</td>
<td>1</td>
</tr>
<tr>
<td>Pharmacy Skills Development V</td>
<td>1</td>
</tr>
<tr>
<td>Integrated Pharmacy Applications V</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
</tr>
<tr>
<td>Integrated Care</td>
<td>4</td>
</tr>
<tr>
<td>APPE: Internal Medicine</td>
<td>6</td>
</tr>
<tr>
<td>APPE: Ambulatory Care</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Third Year</strong></td>
<td><strong>35</strong></td>
</tr>
</tbody>
</table>

#### Fourth Year

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPE: Advanced Hospital</td>
<td>6</td>
</tr>
<tr>
<td>APPE: Community Practice</td>
<td>6</td>
</tr>
<tr>
<td>APPE: Elective I</td>
<td>6</td>
</tr>
<tr>
<td>APPE: Elective II</td>
<td>6</td>
</tr>
<tr>
<td>APPE: Elective III</td>
<td>6</td>
</tr>
<tr>
<td>APPE: Elective IV</td>
<td>6</td>
</tr>
<tr>
<td>APPE: Elective V (Optional)</td>
<td>6</td>
</tr>
<tr>
<td>Curricular Review I</td>
<td>1</td>
</tr>
<tr>
<td>Curricular Review II</td>
<td>1</td>
</tr>
<tr>
<td>Curricular Review III</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Fourth Year</strong></td>
<td><strong>39 [+6 Optional]</strong></td>
</tr>
</tbody>
</table>

**Total Curriculum** ............................................. **160 [+6 Optional]**

IPPE = Introductory Pharmacy Practice Experience
APPE = Advanced Pharmacy Practice Experience
Admissions Requirements • Advanced Standing (International Pharmacy Graduates)

The College of Pharmacy selects international pharmacy graduates for the program based on previous academic performance, TOEFL/IELTS scores (if applicable), written applications, pharmacy experience, and letters of reference.

1. Prior to matriculation, College of Pharmacy applicants must complete and receive a Bachelor of Pharmacy degree or a Bachelor of Science degree in Pharmacy from an accredited institution. The college will evaluate all official transcripts to determine if the student has successfully completed the courses listed below with a grade of C or higher.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>SEMESTER HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy and physiology</td>
<td>6</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>6</td>
</tr>
<tr>
<td>Pharmaceutics</td>
<td>6</td>
</tr>
<tr>
<td>Pharmacokinetics</td>
<td>4</td>
</tr>
</tbody>
</table>

The college may require an applicant to complete additional prerequisite courses in order to strengthen his or her academic background.

2. It is required that applicants have a minimum 2.75 GPA, on a 4.0 scale, on all college-level coursework completed.

3. An official course-by-course evaluation of foreign coursework with the cumulative grade point average included is required (see Application Procedures for further details).

4. Proof of English proficiency is required of all applicants. The following standardized test currently satisfy NSU College of Pharmacy English requirements for nonnative English speakers:
   - Test of English as a Foreign Language (TOEFL)*—score of 213 on a computer-based test; 80 or higher on the Internet-based test [TOEFL](http://toefl.org)
   - International English Language Testing System (IELTS)*—score of 6.0 or higher on the test module [IELTS](http://ielts.org)

   * TOEFL and IELTS scores may be no more than two years old at the time of interview.

Candidates who have taken college courses in the United States may also prove English proficiency by completing two college-level English composition courses at a regionally accredited college or university in the United States with a grade of 2.0 or higher on a 4.0 scale.

5. Three letters of reference are required from the dean/director of a pharmacy program, registered pharmacists, or professors.

It is strongly recommended that applicants submit official scores from the Graduate Record Examination (GRE) and/or the Pharmacy College Admission Test (PCAT).

Accreditations

Nova Southeastern University College of Pharmacy’s Doctor of Pharmacy Program is accredited by the Accreditation Council for Pharmacy Education, 135 S. LaSalle Street, Suite 4100, Chicago, IL 60605-4810. (312) 664-3575, 800-533-3566, FAX (312) 664-4652, website www.acpe-accredit.org. The College of Pharmacy is a member of the American Association of Colleges of Pharmacy.

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.
Application Procedures

Primary Application Process
Applicants apply for matriculation into the fall semester. The Office of Admissions processes applications on a rolling basis; therefore, it is in the best interest of the applicant to apply early. Listed below are the steps necessary to complete the primary application process.

1. Applicants must submit a PharmCAS application electronically. An interactive, web-based application can be accessed through PharmCAS.org.
   - The deadline for submitting a PharmCAS application for Early Decision is September 4.
   - The deadline for submitting a PharmCAS application for admission is February 1.
   - The PharmCAS application process takes four to six weeks.

2. Applicants must submit the following materials to PharmCAS:
   - official transcripts from all colleges and universities attended (must be submitted directly to PharmCAS by the college or university)*
   - three letters of reference
   - PCAT or GRE scores

*For information on foreign coursework, please see page 33.

Secondary Application Process
In addition to completing the PharmCAS application, NSU requires the completion of a supplemental application. Upon receipt of the PharmCAS application, NSU will email a link to access our supplemental application.

Applicants must submit the following materials electronically to NSU:

1. a completed supplemental application due
   - October 10 for applicants applying for Early Decision
   - March 15 for applicants applying for regular admission

2. a nonrefundable application fee of $50 (U.S.)
Early Decision
The Early Decision Program is a binding option for applicants who decide that a particular Pharm.D. program is their first choice, and they will enroll if accepted. As an Early Decision applicant, you can apply to only one Pharm.D. program. If you are offered admission as an Early Decision applicant, you are obligated to accept the offer, and you will not be permitted to apply to other PharmCAS Pharm.D. programs during the current admissions cycle. However, if you are denied admission as an Early Decision applicant, you may apply to other Pharm.D. programs. Visit the PharmCAS website at PharmCAS.org for more information.

Interview Process
For information on the interview process, please see page 34.
Curriculum Outline • Advanced Standing
[International Pharmacy Graduates]

The curriculum is currently under review and will be revised as needed to meet the demands of the profession. These courses are representative of the overall requirements of the program at the time of publication and are subject to change. Updates to the curriculum will be posted on the college web page [pharmacy.nova.edu].

### First Year

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonprescription Drugs and Self-Care</td>
<td>3</td>
</tr>
<tr>
<td>Individualized Drug Therapy I: Applied Pharmacokinetics</td>
<td>3</td>
</tr>
<tr>
<td>Individualized Drug Therapy II: Special Populations</td>
<td>2</td>
</tr>
<tr>
<td>Integrated Disease Management I</td>
<td>3</td>
</tr>
<tr>
<td>Essentials of Professional Practice II</td>
<td>2</td>
</tr>
<tr>
<td>Evidence-Based Practice II</td>
<td>2</td>
</tr>
<tr>
<td>Leadership and Professional Development II</td>
<td>1</td>
</tr>
<tr>
<td>Pharmacy Skills Development II</td>
<td>1</td>
</tr>
<tr>
<td>Integrated Pharmacy Applications II</td>
<td>2</td>
</tr>
<tr>
<td>Foundations of Pharmacy</td>
<td>2–3</td>
</tr>
<tr>
<td>Advanced Standing Pharmacy Skills Development</td>
<td>1</td>
</tr>
<tr>
<td>IPPE: Community</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total First Year** ........................................... **26–27**

### Second Year

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient and Physical Assessment</td>
<td>2</td>
</tr>
<tr>
<td>Integrated Disease Management II</td>
<td>4</td>
</tr>
<tr>
<td>Integrated Disease Management III</td>
<td>4</td>
</tr>
<tr>
<td>Integrated Disease Management IV</td>
<td>4</td>
</tr>
<tr>
<td>Essentials of Professional Practice III</td>
<td>5</td>
</tr>
<tr>
<td>Evidence-Based Practice III</td>
<td>2</td>
</tr>
<tr>
<td>Leadership and Professional Development III</td>
<td>1</td>
</tr>
<tr>
<td>Pharmacy Skills Development III</td>
<td>1</td>
</tr>
<tr>
<td>Pharmacy Applications III</td>
<td>2</td>
</tr>
<tr>
<td>Immunology and Clinical Microbiology</td>
<td>2</td>
</tr>
<tr>
<td>Integrated Disease Management V</td>
<td>3</td>
</tr>
<tr>
<td>Essentials of Professional Practice IV</td>
<td>2</td>
</tr>
<tr>
<td>Evidence-Based Practice IV</td>
<td>2</td>
</tr>
<tr>
<td>Leadership and Professional Development IV</td>
<td>1</td>
</tr>
<tr>
<td>Pharmacy Skills Development IV</td>
<td>1</td>
</tr>
<tr>
<td>Integrated Pharmacy Applications IV</td>
<td>2</td>
</tr>
</tbody>
</table>

Students in the three-year advanced standing program take courses with the entry-level students and enter as second-year students. Some coursework in the first semester of study prepares students to transition into the second year of the program.

| IPPE: Health Systems | 4 |
| Elective | 2 |

**Total Second Year** ........................................... **42**

### Third Year

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterile Products Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Integrated Disease Management VI</td>
<td>1</td>
</tr>
<tr>
<td>Integrated Disease Management VII</td>
<td>4</td>
</tr>
<tr>
<td>Integrated Disease Management VIII</td>
<td>1</td>
</tr>
<tr>
<td>Essentials of Professional Practice V</td>
<td>4</td>
</tr>
<tr>
<td>Evidence-Based Practice V</td>
<td>2</td>
</tr>
<tr>
<td>Leadership and Professional Development V</td>
<td>1</td>
</tr>
<tr>
<td>Pharmacy Skills Development V</td>
<td>1</td>
</tr>
<tr>
<td>Integrated Pharmacy Applications V</td>
<td>2</td>
</tr>
<tr>
<td>Integrated Care</td>
<td>4</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
</tr>
<tr>
<td>APPE: Internal Medicine</td>
<td>6</td>
</tr>
<tr>
<td>APPE: Ambulatory Care</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Third Year** ........................................... **35**

### Fourth Year

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPE: Advanced Hospital</td>
<td>6</td>
</tr>
<tr>
<td>APPE: Community Practice</td>
<td>6</td>
</tr>
<tr>
<td>APPE: Elective I</td>
<td>6</td>
</tr>
<tr>
<td>APPE: Elective II</td>
<td>6</td>
</tr>
<tr>
<td>APPE: Elective III</td>
<td>6</td>
</tr>
<tr>
<td>APPE: Elective IV (Optional)</td>
<td>6</td>
</tr>
<tr>
<td>Curricular Review I</td>
<td>1</td>
</tr>
<tr>
<td>Curricular Review II</td>
<td>1</td>
</tr>
<tr>
<td>Curricular Review III</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Fourth Year** ........................................... **33 (+6 Optional)**

**Total Curriculum** ........................................... **136–137 (+6 Optional)**

IPPE = Introductory Pharmacy Practice Experience
APPE = Advanced Pharmacy Practice Experience
Eligible Pharm.D. students can apply to do a concurrent degree after successful completion of first-year pharmacy coursework.

**Master of Business Administration (Pharm.D./M.B.A.)**
Combining a Pharm.D. degree with an M.B.A. lays the foundation for combining business management with pharmacy practice. Students prepare for highly competitive management and administrative positions in business and pharmacy and improve skills in problem solving, leadership, communication, and writing. Dual-degree students report increased job opportunities and job satisfaction.

**Master of Public Health (Pharm.D./M.P.H.)**
Experts in public health study disease trends and help combat outbreaks of disease. With a concurrent degree in pharmacy, graduates are well prepared to study disease prominence, susceptible populations, and effects of treatment. The shrinking health care dollar, selection of appropriate patients for care, and the growing resistance of bacteria are examples where guidance by pharmacy specialists has become critical. Pharm.D./M.P.H. graduates possess skills to influence social and health policies at the federal, state, and local levels, or to guide policies of schools, hospitals, clinics, or the pharmaceutical industry.

**Master of Science in Biomedical Informatics (Pharm.D./M.S.)**
Experts in medical informatics are critical for planning and establishing electronic patient records, communication of health care information, and analysis of results for improving patient outcome and economic viability of health care providers. With a concurrent degree in pharmacy, graduates are well prepared to lead institutional efforts to provide an extensive electronic environment where medication use is optimized, tracked, and assessed for safe, evidence-based practice. Pharm.D./M.S. graduates have the skills and experience needed to lead efforts in health care, whether those efforts are in public organizations, health care systems, industry, or government agencies.
Master of Science in Pharmaceutical Affairs Program Description

The Master of Science (M.S.) in Pharmaceutical Affairs is a two-year graduate program designed for people interested in the acquisition of knowledge and skills associated with pharmaceutical agents. The degree will prepare students for managerial or sales positions in the pharmaceutical industry, or positions in academia, contract research organizations, managed care organizations, health care systems, and governmental and nongovernmental agencies. Graduates will be able to critically analyze issues related to the production and use of pharmaceuticals and act as leaders in the field. The M.S. in Pharmaceutical Affairs will also act as a bridge for students interested in additional preparation prior to pursuing a Pharm.D. or Ph.D. degree.

This master’s degree program is located at the NSU Miami Campus near the Florida Turnpike and Kendall Drive. Off-campus housing is available in the area.
Admissions Requirements
M.S. in Pharmaceutical Affairs Program

The Master of Science in Pharmaceutical Affairs program bases its selection of candidates on academic performance, Pharmacy College Admission Test (PCAT) or Graduate Record Exam (GRE) scores, personal interviews, written applications, and letters of reference.

1. Prior to matriculation, applicants must have received a baccalaureate degree from a regionally accredited college or university. A baccalaureate degree in any field of study is acceptable, as long as all prerequisites are met.

2. Applicants must complete the following prerequisite coursework at a regionally accredited college or university with a grade of 2.0 or higher on a 4.0 scale.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>SEMESTER HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Biology I and II including laboratory</td>
<td>6</td>
</tr>
<tr>
<td>Anatomy and Physiology (with or without laboratory)</td>
<td>6</td>
</tr>
<tr>
<td>General Chemistry including laboratory</td>
<td>8</td>
</tr>
<tr>
<td>Organic Chemistry including laboratory</td>
<td>8</td>
</tr>
<tr>
<td>General Physics (with or without laboratory)</td>
<td>3</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Calculus</td>
<td>3</td>
</tr>
<tr>
<td>Speech/Public Speaking/Oral Communication (in English)</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Sciences [choose two of the following courses: genetics, cellular biology, molecular biology, microbiology, or biochemistry]</td>
<td>6 **</td>
</tr>
<tr>
<td>Humanities/Social/Behavioral Sciences</td>
<td></td>
</tr>
<tr>
<td>Social/Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Electives in either discipline</td>
<td>9 **</td>
</tr>
</tbody>
</table>
| **Ethics, micro or macroeconomics, and general/life science statistics are highly recommended and may substitute for up to 9 humanities and social/behavioral science elective credits.**
| **Total**                                           | 64             |

3. Applicants must have a minimum cumulative GPA of 2.5 or higher on a 4.0 scale.

4. Applicants must submit official scores from the PCAT or GRE.

   a. PCAT scores must be no more than three years old at the time of application. Applicants should take the PCAT no later than January prior to the expected date of matriculation. You may register online at pcatweb.info or call 800-622-3231 if you have any questions.

   b. GRE Scores must be no more than three years old at the time of application. Applicants should take the GRE no later than April prior to the expected date of matriculation. You may register online at gre.org or call (609) 921-9000 if you have any questions.

5. Two letters of reference from a pre-professional committee—or, if such a committee does not exist, letters of reference from one science professor and one liberal arts professor—are necessary.

Foreign Pharmacy Graduates

Foreign pharmacy graduates may be eligible for admission with

1. a Bachelor of Pharmacy degree or a Bachelor of Science degree in Pharmacy from an accredited institution

2. completion of the coursework below with a grade of 2.0 or higher on a 4.0 scale

<table>
<thead>
<tr>
<th>COURSE</th>
<th>SEMESTER HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy and Physiology</td>
<td>6</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>Pharmaceutics</td>
<td>6</td>
</tr>
<tr>
<td>Pharmacokinetics</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>29</td>
</tr>
</tbody>
</table>

Foreign pharmacy graduates must also complete numbers 3, 4, and 5 on this page.

* No two classes should be from the same discipline.
Application Procedures
M.S. in Pharmaceutical Affairs Program

Candidates for admission must submit the following by June 15:

1. a completed electronic application with a nonrefundable application fee of $50 (U.S.)
2. official transcripts from all colleges and universities attended*
3. official PCAT or GRE scores, not more than three years old at the time of interview
4. two letters of reference

Proof of English proficiency, if applicable, is required of applicants.

The following standardized tests currently satisfy NSU COP English requirements for nonnative English speakers:

1. Test of English as a Foreign Language (TOEFL)**
   a. 213 or above on a computer-based test, 80 or above on the Internet-based test
   b. toefl.org
2. International English Language Testing System (IELTS)**
   a. 6.0 or above on the test module
   b. ielts.org

Candidates who have taken college courses in the United States may also prove English proficiency by completing, with a grade of 2.0 or higher on a 4.0 scale, two college-level English composition courses at a regionally accredited college or university in the United States.

All application materials and foreign evaluations must be mailed to

Nova Southeastern University
Enrollment Processing Services (EPS)
College of Pharmacy Admissions
3301 College Avenue, P.O. Box 299000
Fort Lauderdale, Florida 33329-9905

Transcripts can be sent electronically from the originating college/university to the following address: electronictranscripts@nova.edu.

Interview Process

For information on the interview process, please see page 34.

*For information on foreign coursework, please see page 33.

**TOEFL and IELTS scores may be no more than two years old at the time of the interview.
Curriculum Outline
M.S. in Pharmaceutical Affairs Program

These courses are representative of the overall requirements of the program at the time of publication and are subject to change. Updates to the curriculum will be posted on the college web page [pharmacy.nova.edu].

Students in the first year of the M.S. in Pharmaceutical Affairs program will take a selection of courses offered in the first year of the Pharm.D. program. These courses act as a bridge into the Pharm.D. program for qualified students. See the college web page for updated curricular information.

**First Year—Fall**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmaceutical Marketing</td>
<td>2</td>
</tr>
<tr>
<td>Essentials of Professional Practice I</td>
<td>2</td>
</tr>
<tr>
<td>Patient Care Basics</td>
<td>2</td>
</tr>
<tr>
<td>Biochemical Basis of Drug Therapy</td>
<td>2</td>
</tr>
<tr>
<td>Fundamentals of Pharmacodynamics</td>
<td>3</td>
</tr>
<tr>
<td>Pharmaceutical Calculations</td>
<td>1</td>
</tr>
<tr>
<td>Evidence-Based Practice I</td>
<td>1</td>
</tr>
<tr>
<td>Leadership and Professional Development I</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

**Second Year—Fall**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioethics: Principles of Life Science Research</td>
<td>3</td>
</tr>
<tr>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>Health Economics</td>
<td>3</td>
</tr>
<tr>
<td>Population Health and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>Teaching Certificate I</td>
<td>1</td>
</tr>
<tr>
<td>Graduate Seminar*</td>
<td>1</td>
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<tr>
<td><strong>Total</strong></td>
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</table>

**First Year—Winter**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Nonprescription Drugs and Self-Care</td>
<td>3</td>
</tr>
<tr>
<td>Individualized Drug Therapy I: Pharmacokinetics</td>
<td>3</td>
</tr>
<tr>
<td>Individualized Drug Therapy II: Special Populations</td>
<td>2</td>
</tr>
<tr>
<td>Essentials of Professional Practice II</td>
<td>2</td>
</tr>
<tr>
<td>Evidence-Based Practice II</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>12</strong></td>
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</table>

**Second Year—Winter**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Applied Secondary Database Analysis</td>
<td>2</td>
</tr>
<tr>
<td>Regulatory Affairs</td>
<td>3</td>
</tr>
<tr>
<td>Biomedical Literature Evaluation</td>
<td>2</td>
</tr>
<tr>
<td>Teaching Certificate II</td>
<td>1</td>
</tr>
<tr>
<td>Graduate Seminar*</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

*repeatable course
The Master of Science (M.S.) in Pharmaceutical Sciences is a two-year, graduate program with one of three unique areas of emphasis: (1) Molecular Medicine and Pharmacogenomics—centering on drug discovery principles, (2) Drug Development (Pharmaceutics)—focusing on drug delivery to the desired target, or (3) Social and Administrative Pharmacy—concerned with the interface between pharmacy and society (pharmacy outcomes).

This M.S. will prepare students for positions in academia or technological or managerial positions in the pharmaceutical industry, contract research organizations, managed care organizations, health care systems, and government agencies. Upon successful completion of the degree, students are prepared for further study in a doctoral program, medicine, or a health-related discipline.
Admissions Requirements
M.S. in Pharmaceutical Sciences Program

Candidates who have an earned degree in a field related to the sciences will be considered for the M.S. in Pharmaceutical Sciences Program. The college takes a holistic approach in the evaluation of applications, looking beyond grades and test scores, but also focusing on work, extracurricular activities, and life experiences.

Those students applying to the Drug Development (Pharmaceuticals) or the Molecular Medicine and Pharmacogenomics sequences are required to have earned a Bachelor of Science degree in pharmacy, chemistry, biology, or a related scientific area. Students applying to the Social and Administrative Pharmacy sequence are required to have earned a Bachelor of Science degree in pharmacy, economics, statistics, public health, health services research, or other related fields.

1. Applicants must have earned a baccalaureate degree from a regionally accredited institution of higher education.
2. Applicants must have earned a cumulative GPA equal to 3.0 or better on a 4.0 scale.
3. Applicants must submit official scores from the Graduate Record Examination (GRE) general test (verbal reasoning, quantitative reasoning, and analytical writing).
   - Scores must be less than five years old at the time of application.
   - The NSU GRE code is 5522 for all submissions.
   - For more information, please visit gre.org.
4. Three letters of reference from professors or supervisors in the applicant’s field of study must be submitted.
Application Procedures  
M.S. in Pharmaceutical Sciences Program

Candidates for admission must submit the following by June 15:

1. a completed electronic application with a nonrefundable application fee of $50 (U.S.)
2. official transcripts from all colleges and universities attended*
3. a personal essay (may be submitted online with application)
4. official GRE scores
5. three letters of reference

Proof of English proficiency, if applicable, is required of applicants. The following standardized tests currently satisfy NSU College of Pharmacy English requirements for nonnative English speakers:

1. Test of English as a Foreign Language (TOEFL)**
   a. 213 or above on a computer-based test, 80 or above on the Internet-based test
   b. toefl.org

2. International English Language Testing System (IELTS)**
   a. 6.0 or above on the test module
   b. ielts.org

Candidates who have taken college courses in the United States may also prove English proficiency by completing, with a grade of 2.0 or higher on a 4.0 scale, two college-level English composition courses at a regionally accredited college or university in the United States.

All application materials and foreign evaluations must be mailed to:
Nova Southeastern University
Enrollment Processing Services
College of Pharmacy Admissions
3301 College Avenue, P.O. Box 299000
Fort Lauderdale, Florida 33329-9905

Transcripts can be sent electronically from the originating college/university to the following address: electronictranscripts@nova.edu.

Interview Process
For information on the interview process, please see page 34.

*For information on foreign coursework, please see page 33.

** TOEFL and IELTS scores must be no more than two years old at the time of the interview.
The curriculum is currently under review and will be revised as needed. These courses are representative of the overall requirements of the program at the time of publication and are subject to change. Updates to the curriculum will be posted on the college web page ([pharmacy.nova.edu](http://pharmacy.nova.edu)).

### Molecular Medicine and Pharmacogenomics

#### First and Second Years

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Physical Pharmacy</td>
<td>3</td>
</tr>
<tr>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>Clinical Drug Development: Advanced Pharmacokinetics and Biopharmaceutics</td>
<td>3</td>
</tr>
<tr>
<td>Graduate Seminar**</td>
<td>4</td>
</tr>
<tr>
<td>Molecular and Cellular Pharmacodynamics</td>
<td>3</td>
</tr>
<tr>
<td>Pharmaceutical Sciences Research Design</td>
<td>1</td>
</tr>
<tr>
<td>Research Techniques and Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>Scientific Writing*</td>
<td>1</td>
</tr>
<tr>
<td>Advanced Pharmacogenomics and Molecular Medicine</td>
<td>3</td>
</tr>
<tr>
<td>Bioethics: Principles of Life Science Research*</td>
<td>3</td>
</tr>
<tr>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td>5–6</td>
</tr>
</tbody>
</table>

**Total Credits** .......................................................................................... **36**

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### Drug Development (Pharmaceutics)

#### First and Second Years

<table>
<thead>
<tr>
<th>Course Title</th>
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<tbody>
<tr>
<td>Advanced Physical Pharmacy</td>
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</tr>
<tr>
<td>Clinical Drug Development: Advanced Pharmacokinetics and Biopharmaceutics</td>
<td>3</td>
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<tr>
<td>Graduate Seminar**</td>
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<td>Molecular and Cellular Pharmacodynamics</td>
<td>3</td>
</tr>
<tr>
<td>Pharmaceutical Sciences Research Design</td>
<td>1</td>
</tr>
<tr>
<td>Research Techniques and Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>Scientific Writing*</td>
<td>1</td>
</tr>
<tr>
<td>Bioethics: Principles of Life Science Research*</td>
<td>3</td>
</tr>
<tr>
<td>Product Development and Industrial Pharmacy</td>
<td>3</td>
</tr>
<tr>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td>5–6</td>
</tr>
</tbody>
</table>

**Total Credits** .......................................................................................... **36**

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### Social and Administrative Pharmacy

#### First and Second Years

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioethics: Principles of Life Science Research*</td>
<td>3</td>
</tr>
<tr>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>Graduate Seminar**</td>
<td>4</td>
</tr>
<tr>
<td>Pharmacy Management and Finance</td>
<td>3</td>
</tr>
<tr>
<td>Population Health and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>Scientific Writing*</td>
<td>1</td>
</tr>
<tr>
<td>Social Measurement and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>Health Economics</td>
<td>3</td>
</tr>
<tr>
<td>Pharmacoeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Theories of Health-Seeking Behavior</td>
<td>3</td>
</tr>
<tr>
<td>Research Project</td>
<td>4</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits** .......................................................................................... **36**

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*HPD Core Courses

**Four 1-credit courses
Doctor of Philosophy (Ph.D.) in Pharmaceutical Sciences Program Description

Entering pharmacy graduate students must select one of the three sequences to focus their graduate studies upon: Social and Administrative Pharmacy, Drug Development [Pharmaceutics], or Molecular Medicine and Pharmacogenomics. Research topics available to students are consistent with the expertise of faculty members in the College of Pharmacy (COP) at NSU. In addition, the Ph.D. program is consistent with the criteria for accreditation set by the Commission on Colleges of the Southern Association of Colleges and Schools.

The Social and Administrative Pharmacy sequence focuses on research skills and supporting coursework that address the dynamic and complex nature of the provision of pharmacy services. Students who select this sequence are expected to conduct their dissertation research in one of two tracks: 1) Sociobehavioral and Cultural Pharmacy or 2) Pharmacoeconomics and Outcomes. Students who pursue either track in this sequence are advised by faculty members in the department of sociobehavioral and administrative pharmacy, a group of researchers with expertise in pharmacoeconomics, health disparities and vulnerable populations, cultural competency, development and implementation of sustainable pharmacy services, patients’ decision making, pharmacy marketing, and outcomes research.

The Drug Development (Pharmaceutics) sequence emphasizes the development of laboratory research skills and supporting coursework that are integral to the theory and practice associated with the incorporation of drug entities into the forms and formulations to achieve the most effective delivery of drugs to the site of biological and medical action. Students who pursue this sequence are advised by faculty members in the department of pharmaceutical sciences, a group of researchers with expertise in pharmaceutics-related disciplines. Particular areas of expertise include a variety of drug formulations, such as abuse-resistant formulations, novel drug delivery approaches, and molecularly targeted drug delivery systems.

The Molecular Medicine and Pharmacogenomics sequence emphasizes laboratory research and the development of research skills that are integral to elucidation of the mechanism of action of drugs and the extent and characteristics of drug actions. Students who pursue this sequence will be advised by faculty members in the department of pharmaceutical sciences, a group of researchers with expertise in pharmacology, medicinal chemistry, toxicology, neuroscience, and biochemistry. Particular areas of expertise include cardiovascular pharmacology, molecular pharmacology, anti-inflammatory steroids, central nervous system diseases, and cancer pharmacology.

Students are required to take a minimum of 60 credits, at least 36 of which must be in didactic coursework. An average GPA of 3.0 or higher must be maintained. Coursework aimed at filling academic gaps in a student’s background will not count toward program requirements. Both a written or comprehensive and an oral qualifying examination are required to advance to candidacy. Research, culminating in a successfully defended dissertation, is required of all students in their respective areas.

At the completion of this course of study and research, students will be able to

- demonstrate the knowledge base expected at the Ph.D. level in their specialty
- design and conduct independent research that adds to the understanding of their specialty
- prepare and defend rational and structured proposals seeking support for research
- effectively communicate the results of their own research
- be competitive for careers in academia, industry, government, or regulatory positions.
Admissions Requirements • Ph.D. Program

Candidates with degrees in fields related to the sciences will be considered for the Ph.D. in Pharmaceutical Sciences Program. The College of Pharmacy takes a holistic approach in the evaluation of applications, looking beyond grades and test scores, but also focusing on work, extracurricular activities, and life experiences.

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*For information on foreign coursework, please see page 33.

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Interview Process

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Social and Administrative Pharmacy

First and Second Years

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioethics Principles of Life</td>
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</tr>
<tr>
<td>Science Research*</td>
<td></td>
</tr>
<tr>
<td>Advanced Biostatistics I*</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Biostatistics II*</td>
<td>3</td>
</tr>
<tr>
<td>Graduate Seminar**</td>
<td>1–4</td>
</tr>
<tr>
<td>Health Economics</td>
<td>3</td>
</tr>
<tr>
<td>Pharmaceutical Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Pharmacy Management and Finance</td>
<td>3</td>
</tr>
<tr>
<td>Population Health and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>Research Design*</td>
<td>3</td>
</tr>
<tr>
<td>Research/Internship</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Quantitative Methods</td>
<td>3</td>
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<td>Graduate Research</td>
<td>9</td>
</tr>
<tr>
<td>Pharmacoeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Research Funding and Proposal Development</td>
<td>1</td>
</tr>
<tr>
<td>Scientific Writing</td>
<td>3</td>
</tr>
<tr>
<td>Social Measurement and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>Theories of Health-Seeking Behavior</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>6</td>
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Third Year

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<th>Course Title</th>
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<tbody>
<tr>
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<tr>
<td>Dissertation Research</td>
<td>16</td>
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<tr>
<td>Graduate Seminar</td>
<td>1–2</td>
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<tr>
<td>Elective</td>
<td>3</td>
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Fourth Year ^

<table>
<thead>
<tr>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>Dissertation Research</td>
<td>24</td>
</tr>
<tr>
<td>Graduate Seminar</td>
<td>1–2</td>
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</tbody>
</table>

*HPD Core Courses

**Four 1-credit seminars

^Additional years may be required to complete the dissertation research. The curriculum for subsequent years is identical to the fourth year (maximum seven years allowed for Ph.D. completion).
Molecular Medicine and Pharmacogenomics

First and Second Years

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Pharmacokinetics and Biopharmaceutics</td>
<td>3</td>
</tr>
<tr>
<td>Bioethics Principles of Life Science Research*</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Biostatistics *</td>
<td>3</td>
</tr>
<tr>
<td>Clinical Pharmacology</td>
<td>4</td>
</tr>
<tr>
<td>Molecular and Cellular Pharmacodynamics</td>
<td>3</td>
</tr>
<tr>
<td>Experimental Statistics and Informatics</td>
<td>1</td>
</tr>
<tr>
<td>Graduate Research</td>
<td>6–15</td>
</tr>
<tr>
<td>Graduate Seminar</td>
<td>1–4</td>
</tr>
<tr>
<td>Graduate Research/Internship</td>
<td>3</td>
</tr>
<tr>
<td>Scientific Writing*</td>
<td>1</td>
</tr>
<tr>
<td>Advanced Pharmacogenomics and Molecular Medicine</td>
<td>3</td>
</tr>
<tr>
<td>Applied Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>Journal Club</td>
<td>1</td>
</tr>
<tr>
<td>Pharmaceutical Science Research Design</td>
<td>1</td>
</tr>
<tr>
<td>Research Funding and Proposal Development</td>
<td>1</td>
</tr>
<tr>
<td>Research Techniques and Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
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</tbody>
</table>

Third Year

<table>
<thead>
<tr>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Dissertation Research</td>
<td>24</td>
</tr>
<tr>
<td>Graduate Seminar</td>
<td>1–2</td>
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</tbody>
</table>

Fourth Year *

<table>
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<tr>
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</tr>
<tr>
<td>Graduate Seminar</td>
<td>1–2</td>
</tr>
</tbody>
</table>

* HPD Core Courses
** Four 1-credit seminars

Additional years may be required to complete the dissertation research. The curriculum for subsequent years is identical to the fourth year (maximum seven years allowed for Ph.D. completion).

Notes

- Qualifying exams will commence during the summer semester of the second year.
- Fifth and subsequent years are usually necessary (maximum seven years).
- Graduation from the program requires the preparation and successful defense of a dissertation.
Foreign Coursework

Coursework taken at foreign institutions must be evaluated for U.S. institution equivalence by an approved National Association of Credential Evaluation Services (NACES) organization, 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

**Josef Silny & Associates, Inc.**
7101 SW 102 Avenue
Miami, Florida 33173
(305) 273-1616 • (305) 273-1338 fax
jsilny.com

**Educational Credential Evaluators, Inc.**
P.O. Box 514070
Milwaukee, Wisconsin 53203-3470
(414) 289-3400 • 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 NSU’s Enrollment Processing Services.

**All admissions materials and foreign evaluations must be mailed to**

Nova Southeastern University
Enrollment Processing Services
3301 College Avenue, P.O. Box 299000
Fort Lauderdale, Florida 33329-9905

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

*electronictranscripts@nova.edu.*
Interview Process
A personal interview is part of the admissions process; however, being interviewed is not a guarantee of admission. Upon receipt of the completed application, a review will be made to determine if the applicant will be granted an interview. Not all applicants will be granted an interview. The Office of Admissions will notify selected applicants for interviews.

Pharm.D. Transfer Students
Candidates in good academic standing from their college/university of record may apply for consideration as transfer students by
1. submitting a completed electronic application with a nonrefundable application fee of $50 (U.S.) by June 15
2. meeting all entry-level or advanced standing admissions requirements for the NSU College of Pharmacy, as applicable
3. submitting the following documentation:
   a. official transcripts for all college coursework*
   b. a written statement outlining the reasons for requesting the transfer
   c. three letters of recommendation (two from pharmacy faculty members and one from the dean, associate dean, or assistant dean of the transferring college of pharmacy that indicates the student is in good standing within the current or most recent academic program)
4. completing an interview
5. submitting any official standardized test scores—such as PCAT, GRE, TOEFL, or IELTS—to help further the evaluation of applications (recommended)

Note: Due to the design of the Pharm.D. curriculum, a transfer student may be required to enter as a first-year student.

Nondegree-Seeking Students
The college accepts nondegree-seeking students for travel study, study abroad, and some specific coursework. Contact phss@nova.edu for more information on these programs.

Transfer Credits
Transfer credit will only be considered for courses designated with a graduate-level course number, passed with a grade of B or better, and from a regionally accredited graduate institution. Credit used toward an earned degree will not be transferred. Requests for transfer credit must be submitted in writing to the associate dean or director of the relevant program prior to August 1 of the year of matriculation.

Pharm.D. students must complete a minimum of 30 credit hours of didactic coursework and all Advanced Pharmacy Practice Experiences (APPE) at NSU. Transfer credits may not exceed 2/3 of the required credits to complete the degree program. M.S. and Ph.D. students may request to transfer a maximum of 6 credits from a regionally accredited graduate institution.

For more information, see the NSU COP Student Handbook available at pharmacy.nova.edu.

* For information on foreign coursework, please see page 33.
Expenses and Financial Aid

Students should anticipate spending approximately $2,000 a year for books, electronic devices (e.g., iPads), equipment, and supplies, and $14,000 for living expenses for a nine-month academic year.

The primary financial responsibility for a student’s education rests with the student and his or her family, but economic circumstances may make it necessary for the student to obtain assistance from other sources.

The Office of Student Financial Assistance at Nova Southeastern University is there to help as many qualified students as possible to complete their pharmacy education. Various loans, scholarships, and grants are available to qualified students to help ease the high cost of a health professions education. Approximately 90 percent of College of Pharmacy students receive some form of financial assistance. These financial assistance programs are described on our website at nova.edu/financialaid. For more information, contact

Nova Southeastern University  
Office of Student Financial Assistance  
3301 College Avenue  
Fort Lauderdale, Florida 33314-7796

(954) 262-3380 or 800-806-3680

Opportunity for a limited number of student employment positions are available. However, due to the intensity of all academic programs, employment during the semester is strongly discouraged.

Tuition

Tuition for all programs will be posted on our website at pharmacy.nova.edu. All tuition and fees are subject to change by the board of trustees without notice.

Only Florida residents in the entry-level program may qualify for in-state tuition. Information on applying for Florida residency status is available at nova.edu/cwis/hpdasa/florida-in-state-tuition.html. Residency status will be determined at matriculation and will remain the same throughout enrollment at NSU. No tuition amounts will be adjusted as a result of a change in residency.

Fees and Deposit—All programs

Acceptance and Preregistration Deposit—$1,000. This deposit is due within three weeks of an applicant’s acceptance and is required to reserve the accepted applicant’s place in the entering first-year class. This deposit will be deducted from the tuition payment due on registration day, but is nonrefundable in the event of a withdrawal.

Health Professions Division General Access Fee—$145. This fee is required annually.

NSU Student Services Fee—$1,350. This fee is required annually.

Registration Fee—$30. This fee is required each semester.

Late Payment Fee—$100. All tuition and fees not paid within 30 days after the start of the semester will incur a late payment fee.

College of Pharmacy Fees—Additional fees may be incurred for immunization training, pharmacy testing, and other college-approved activities. These fees are estimated at $1,000 over the course of the program.

The first semester’s tuition and fees, less the $1,000 deposit, are due prior to the start of the semester. Tuition and fees for each subsequent semester are due on or before the start of each semester. The financial ability of applicants to complete their training is important because of the limited number of positions available in each class. Applicants should have specific plans for financing their education. This should include tuition, fees, iPads, computer-related expenses, health insurance, books, printing, required equipment, and living and miscellaneous expenses.
General Information

Office of International Students and Scholars
It is the responsibility of the international applicant to contact the Office of International Students and Scholars (OISS) for information on immigration regulations and student visa requirements. For more information, visit nova.edu/internationalaffairs/students/.

Student Health Insurance
All NSU COP students are required to maintain adequate health insurance. NSU will automatically enroll you in the Nova Southeastern University Student Medical Insurance Plan and charge your student account. If you are insured under another insurance plan, you will be required to complete an online waiver form by the given deadline. For more information, visit the insurance website at nova.edu/bursar/health-insurance/index.html.

Professional Insurance
All registered NSU COP students are covered under university liability insurance while on official university experiences and activities.

Core Performance Standards
Candidates for degrees offered by the Health Professions Division must have, with or without reasonable accommodation, multiple abilities and skills, including intellectual, conceptual, integrative, and quantitative abilities; interpersonal communication; mobility and strength; motor skills; and hearing, visual, tactile, behavioral, and social attributes. For more information, see Core Performance Standards for Admissions and Progress in the student handbook available at pharmacy.nova.edu.

Pharmacy Intern License
A pharmacy intern license is a requirement for all Pharm.D. students and for placement on pharmacy practice experiences. All students must have a valid Social Security number to apply for, and receive, a pharmacy intern license in the Pharm.D. program. Without an intern license, a student cannot complete the curricular requirements.

It is the responsibility of all accepted international students to ensure that their visa status allows for the issuance of a Social Security number.

International students in the Ph.D. program who are paid teaching assistants will also need to verify that their visa status allows for the issuance of a Social Security number for employment with the university.

Transportation
Pharm.D. students are responsible for having reliable transportation (e.g., a personal vehicle) to attend IPPE and APPE sites that may not be close to campus locations or be accessible by reliable public transportation.

Student Housing
Numerous apartments, condominiums, and other rental facilities are located near the NSU campuses. Information concerning housing may be obtained at nova.edu/housing or by contacting the campuses listed below directly.

Fort Lauderdale/Davie Campus
3200 South University Drive
Fort Lauderdale, Florida 33328-2018
Phone: (954) 262-1300
Fax: (954) 262-2278
Toll Free: 800-356-0026, ext., 1200
Email: phss@nova.edu

Regional Campuses
nova.edu/campuses

Puerto Rico Regional Campus
997 San Roberto Street
San Juan, Puerto Rico 00926
Phone: (787) 773-6583
Fax: (787) 773-6595
Email: prphss@nova.edu

Miami Campus
8585 SW 124th Avenue
Miami, Florida 33183-4600
Phone: (954) 262-1300
Fax: (954) 262-2278
Email: phss@nova.edu
Health Professions Division Complex and Center for Collaborative Research [see below for location on campus]

1 TERRY ADMINISTRATION BUILDING

FIRST FLOOR
- Admissions
- Student Financial Aid
- One-Stop Shop
- HPD Cafeteria

SECOND FLOOR
- Dr. Pahlal Patel College of Health Care Sciences
  - Audiology/Department
  - Health Sciences Department
  - Occupational Therapy Department
  - Physical Therapy Department
  - Physician Assistant Department

THIRD FLOOR
- College of Medical Sciences
- College of Pharmacy

FOURTH FLOOR
- Dr. Khairi A. Khalil College of Health Professions
- College of Optometry

FIFTH FLOOR
- HPD Administration
- Dr. Khairi A. Khalil College of Health Professions
- Public Health Program
- Ron and Kathy Assal College of Nursing
- Area Health Education Center

2 ASSEMBLY BUILDING

- Finkelstein Auditorium (125 seats)
- Jonas Auditorium (125 seats)
- Merck Auditorium (125 seats)
- Resnick Auditorium (125 seats)
- Terry Auditorium (125 seats)
- Auditoria A, B, and C (320 seats each)
- Robert A. Steele Auditorium (500 seats)
- Hull Auditorium (250 seats)
- Seminar Rooms

3 LIBRARY/LABORATORY BUILDING

FIRST FLOOR
- ACORN SEED
- Medication Therapy Management
- Harvey C. Cardiac Patient Simulation Room
- Martin and Gail Press Health Professions Division Library
- Student Computer Laboratory
- Patient Simulation Center

SECOND FLOOR
- Occupational Therapy Laboratories
- Optometry Laboratories
- Physical Therapy Laboratory
- Student Lounge
- FOMA Osteopathic Manipulative Medicine Laboratory

THIRD FLOOR
- Basic Science Laboratories
- Gross Anatomy Laboratories
- Microscopy Laboratory
- Research Laboratories
- Moran Pharmacy Practice Laboratory
- Pharmacokinetics Laboratory
- Pharmaceutics Laboratory

PHARMACY AND PHARMACEUTICAL CARE CENTER

FIRST FLOOR
- Audiology
- Family Medicine
- Geriatric Medicine
- Internal Medicine
- Pediatrics
- Pediatric Physical Therapy
- Student Medical Center

SECOND FLOOR
- Optometry Clinics
- Optometry Dispensary

THIRD FLOOR
- Business Offices
- Employee Wellness Center
- OB/GYN
- Osteopathic Medicine Treatment Center

SANFORD L. ZIFF HEALTH CARE CENTER

FIRST FLOOR
- Postgraduate Operative Dentistry Clinic
- Research Laboratories
- Seminar Rooms
- Central Sterilization Area
- Administrative Offices
- Faculty Offices
- Student Dental Supply Depot

SECOND FLOOR
- Pharmacokinetics Laboratory
- Microscopy Laboratory
- Gross Anatomy Laboratories
- Research Laboratories
- Physical Assessment Laboratory
- Simulation Lab
- Faculty Practice
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FOURTH FLOOR
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- Postgraduate Periodontics
- Postgraduate Orthodontics
- Postgraduate Endodontics

CENTER FOR COLLABORATIVE RESEARCH

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NSU Fort Lauderdale/Davie Campus

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