1999

College of Pharmacy--For the 1999 Entering Class

Nova Southeastern University

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COLLEGE OF PHARMACY
NOVA SOUTHEASTERN UNIVERSITY

FOR THE 1999 ENTERING CLASS
Nova Southeastern University, synonymous with dynamic innovation and intellectual challenge, is the largest independent not-for-profit university in the state of Florida, and, with an enrollment of approximately 16,000, among the 20 largest in the United States. Situated on a beautiful 232-acre campus in Ft. Lauderdale, Florida, the University is experiencing a sustained period of fiscal strength, academic growth and a commitment to the requirements 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 graduated over 50,000 alumni. Fully 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 in a wide range of fields including, in addition to the health professions, law, business, marine sciences, psychology, social sciences, computer and information sciences, and education.

The University's programs are administered through fifteen academic centers that offer courses at the main campus, as well as at field-based locations throughout Florida, across the nation, and at selected international sites in Europe, Canada, the Pacific Rim, Central and South America, and the Caribbean.

With a budget of over $200 million a year and an upward trend in enrollment, the University will continue to maintain a solid record of academic and fiscal strength, excellence in teaching and community service, while expanding our mission in research and scholarship.
Nova Southeastern University is a dynamic, not-for-profit, independent institution dedicated to providing high quality educational programs of distinction from preschool through the professional and doctoral levels, as well as service to the community. Nova Southeastern University prepares students for lifelong learning and leadership roles in business and the professions. It offers academic programs at times convenient to students, employing innovative delivery systems and rich learning resources on campus and at distant sites. The University fosters inquiry, research, and creative professional activity by uniting faculty and students in acquiring and applying knowledge in clinical, community, and professional settings.
As a student in the Health Professions Division of Nova Southeastern University, you can anticipate a remarkable experience. You will train, study, interact, and share facilities, faculty, and resources with other health professions students. This interdisciplinary approach distinguishes the Health Professions Division as unique, and will better prepare you to master your discipline with a sensitivity and understanding of the entire health care system. We think this is an opportunity unmatched in health professions education.

The Health Professions Division, with a student body of more than 2000, is home to Nova Southeastern University College of Pharmacy, the only college of pharmacy in South Florida. The College offers both the entry-level Doctor of Pharmacy (Pharm.D.) degree as well as the postgraduate Pharm.D. degree.

The Division has five other colleges. The College of Osteopathic Medicine, the first one in the southeastern United States, grants the Doctor of Osteopathic Medicine (D.O.) degree. The College of Optometry, the only one in the state of Florida, awards the Doctor of Optometry (O.D.) degree. The College of Allied Health offers a bachelor's level Physician Assistant (B.S.) degree, the only accredited P.A. program in South
Florida, and master's level Occupational Therapy (M.O.T.), Physical Therapy (M.P.T.), and Public Health (M.P.H.) degrees, as well as doctoral programs in Occupational Therapy (Dr.O.T.) and Physical Therapy (D.Sc.P.T.). In addition to these programs, the College of Allied Health offers a Master of Medical Science (M.M.S.) degree program exclusively for Physician Assistants. The College of Medical Sciences grants the Master of Biomedical Sciences (M.B.S.) degree. The College of Dental Medicine admitted its charter class August, 1997, into the Doctor of Dental Medicine (D.M.D.) degree program.

You will study in the newly dedicated $50 million Health Professions Division complex, covering 21 acres of the University campus. The Division includes eight buildings totaling 900,000 square feet of space for classrooms, laboratories, offices, the Health Professions Division Library, an outpatient health center, and a pharmaceutical care center. The adjacent 1,600-vehicle parking garage overlooks the Miami Dolphins Training Camp.

The excitement of this academically integrated, state-of-the-art environment is contagious. Both student body and faculty are energized and motivated to be part of the front line effort to elevate the level of health care to everyone, everywhere.

Accreditation

The Doctor of Pharmacy program at Nova Southeastern University College of Pharmacy has been granted full accreditation status by the American Council on Pharmaceutical Education (ACPE), the national agency for the accreditation of professional programs in pharmacy. The College of Pharmacy is a member of the American Association of Colleges of Pharmacy.

Nova Southeastern University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; telephone number 404-679-4501) to award bachelor's, master's, educational specialist, and doctoral degrees.

Policy of Non-Discrimination

Nova Southeastern University admits students of any race, color, sex, age, non-disqualifying disability, religion or creed, or national or ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the school, and does not discriminate in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other school-administered programs.

This brochure is for information purposes only and does not represent a contract. Information contained herein is subject to change at any time by administrative decision or the direction of the Board of Trustees.
The most visible pharmacy practice is in the nation's 55,000 independent and chain pharmacies, yet this accounts for only about half of the 225,000 persons employed in the profession. Many work at hospitals as directors, staff and clinical specialist pharmacists. Pharmacists can become specialists in several areas of patient care through postgraduate training. Consultant pharmacists provide services to nursing homes and home health care patients.

Pharmacists are employed as researchers in universities and in the pharmaceutical and biotechnology industries. They are also engaged in the production and quality control of pharmaceutical products. Others are employed by industry as sales representatives. Pharmacists also fill vital administrative and regulatory roles in government.

The professional responsibilities of pharmacists are expanding rapidly to meet the demands of a dynamic health care system. Prospective drug use review and the offering of consultation services are now mandatory in all states. Through the provision of pharmaceutical care an increasing number of pharmacists are involved with disease state management. As pharmacists move more directly into patient care, the technical functions of prescription dispensing are being carried out by technicians and technology, but the ultimate responsibility for what takes place at the drug-patient interface remains with the pharmacist.
Since admitting its charter class in 1987, the College of Pharmacy has:

Graduated 780 pharmacists

Led the nation in the level of enrollment of Hispanic doctoral pharmacy students

Developed a postgraduate Doctor of Pharmacy (Pharm.D.) program for bachelor-level pharmacists seeking to advance professionally. The program, developed in 1991, has graduated 135 professionals, and is among the largest in the nation.

Developed, in 1995, a nontraditional postgraduate Pharm.D. program utilizing interactive Compressed Video. Today, over 200 practicing pharmacists throughout the state of Florida who cannot afford to interrupt their careers or relocate to a college campus are enrolled in this innovative and flexible program.

Developed residency programs in Psychiatric Pharmacy Practice, Drug Information, Ambulatory Care, and Infectious Diseases

Developed a Drug Information Center to provide area health care providers with current information on pharmaceuticals

Brought the latest American pharmaceutical education to leading institutions of higher learning in Latin America. The program features faculty exchanges, collaboration on research projects, and seminars on advances in patient-oriented pharmacy.

Developed two ambulatory care pharmacies for innovative teaching and testing of pharmacists' expanding roles.
The Doctor of Pharmacy degree is awarded after successful completion of four years of professional study in the College of Pharmacy. The curriculum stresses innovative delivery and assessment methods.

The curriculum is designed such that courses integrate information and build upon one another in order to provide students with the knowledge and skills necessary to be successful in the profession.

The first two years build a foundation in the medical and pharmaceutical sciences. Anatomy, physiology, biochemistry and microbiology courses develop the necessary background, and Pharmaceutics, Pharmacokinetics, and Nonprescription Therapies courses provide a strong understanding of the principles of drug therapy. The business, human relation, communication, marketing and legal aspects of pharmacy and the health care system are also studied.

Third year courses focus on application of material learned, the use of drugs in the disease process, and developing skills essential to monitoring drug therapy. Students hone their analytical skills with courses in Research Design and Statistics, Pharmacoepidemiology, and Pharmacoeconomics and Drug Literature Evaluation.

Practice experiences in community, hospital, service/learning, and traditional pharmacy settings facilitate real-life application of the material and provide opportunities to integrate information learned.

The final year of the Pharm.D. curriculum is composed of full-time clerkships where students practice drug therapy monitoring with more independence. During the final month all students return to campus for updates on new and changing drug therapy, for presentations, and for board exam preparation.
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<tr>
<th>THIRD YEAR</th>
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<tr>
<td><strong>First Semester</strong></td>
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<tr>
<td>PHA 5540</td>
<td>Hospital Clerkship II</td>
<td>1</td>
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<tr>
<td>PHA 5390</td>
<td>Research Design &amp; Stat.</td>
<td>3</td>
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<tr>
<td>PHA 5560</td>
<td>Physical Assessment</td>
<td>2</td>
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<tr>
<td>PHA 5440</td>
<td>Pharmacy Management</td>
<td>3</td>
</tr>
<tr>
<td>PHA 5220</td>
<td>Patient Care Management II</td>
<td>1</td>
</tr>
<tr>
<td>PHA 5620</td>
<td>Therap./Pathophys. II</td>
<td>5</td>
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<tr>
<td>Suggested Electives</td>
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<td>2</td>
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<tr>
<td><strong>Credits</strong></td>
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<td>17</td>
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| **Second Semester** |                      |                  |
| PHA 5550  | Non-Traditional Experience | 1          |
| PHA 5410  | Pharmacoeconomics          | 3                |
| PHA 5610  | Drug Literature Evaluation | 2            |
| PHA 5550  | Patient Care Management III | 1         |
| PHA 5630  | Therap./Pathophys. III    | 4                |
| Suggested Electives |                      | 4               |
| **Credits** |                      | 15               |

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<tr>
<th>FOURTH YEAR</th>
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<td><strong>First Semester</strong></td>
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<tr>
<td>PHA 6620</td>
<td>Clerkship II (I.M.)</td>
<td>4</td>
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<tr>
<td>PHA 6640</td>
<td>Clerkship II (Amb.)</td>
<td>4</td>
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<tr>
<td>PHA 6660</td>
<td>Clerkship II (Amb. or I.M.)</td>
<td>4</td>
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<tr>
<td>PHA 6680</td>
<td>Clerkship II (D.I.)</td>
<td>4</td>
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<tr>
<td><strong>Credits</strong></td>
<td></td>
<td>16</td>
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| **Second Semester** |                      |                  |
| PHA 6610  | Elective Clerkship III | 4               |
| PHA 6630  | Elective Clerkship III | 4               |
| PHA 6650  | Elective Clerkship III | 4               |
| PHA 6670  | Elective Clerkship III | 4               |
| Eighth Semester |                      | 0                |
| **Credits** |                      | 16               |
Admission Requirements

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

1. Prior to matriculation, College of Pharmacy applicants must complete a minimum of 63 semester hours of course work at a regionally accredited college or university, including the following required courses:

- **General biology**, including laboratory - 8 semester hours
- **General chemistry**, including laboratory - 8 semester hours
- **Organic chemistry**, including laboratory - 8 semester hours
- **Calculus** - 3 semester hours (from a mathematics department)
- **Statistics** - 3 semester hours
- **Humanities** - 3 semester hours
- **Social/Behavioral sciences** - 3 semester hours
- **English** - 6 semester hours
- **Speech** - 3 semester hours
- **Economics** - 6 semester hours (macro/micro)
- **Additional Social/Behavioral sciences and/or Humanities** - 9 semester hours
- **Computer literacy** - 3 semester hours

2. Students must have a GPA of 2.75 or higher on a four-point scale. To assure a well-rounded background for professional studies and adequate preparation in mathematics and sciences, the College requires students to earn a grade of 2.0 or better in each required pre-pharmacy course and a minimum grade of 2.0 in all biology courses, in all chemistry courses, and in all mathematics courses. We recommend that courses taken outside these requirements be in the social and behavioral sciences or the humanities, which include history, psychology, government, anthropology, sociology, and various survey or history courses in the arts.

3. Applicants are required to submit official scores from the Pharmacy College Admission Test (PCAT). A national, standardized examination, the PCAT is designed to measure verbal ability, quantitative ability, reading comprehension, and knowledge of biology and chemistry. PCAT scores must be no more than five years old at the time of interview.

Applicants should take the PCAT no later than October or February prior to the expected date of matriculation. Candidates should schedule pre-pharmacy course work so that they complete biology and some chemistry courses before taking the PCAT.

The half-day test is offered in October, February and April at locations throughout the U.S. and Canada, including Tampa, Gainesville, Tallahassee and Nova Southeastern University. Application brochures for the PCAT may be available at your college. You can also receive the brochure from the Office of Admissions, NSU College of Pharmacy, or by forwarding a written request to:

**Pharmacy College Admission Test**
**The Psychological Corporation**
**555 Academic Court**
**San Antonio, TX 78204**
**(800) 622-3231**
Application Procedures

Candidates for admission are responsible for the submission of:

1. A completed application form along with a $50 non-refundable application fee

2. A letter of evaluation from the pre-professional committee, or, if such a committee does not exist, three letters of evaluation, two from science professors and one from a liberal arts professor

3. Official PCAT scores, not more than five years old

4. Official college transcripts from all undergraduate and graduate institutions attended, sent directly from the institution

In addition, a letter of reference from a registered pharmacist is recommended.

Transcripts
Official transcripts of all work attempted at all colleges and universities must be forwarded by the institutions attended to the Office of Admissions, College of Pharmacy. It is the applicant's responsibility to ensure that arrangements are made for these to be sent. A final transcript of all of the applicant's work must be forwarded to the Office of Admissions prior to matriculation.

Interview
Upon receipt of the completed application and required credentials, the Committee on Admissions will select those applicants to be interviewed. A personal interview is a part of the admission process; however, being interviewed is not a guarantee of admission. Not all applicants will be granted an interview. Those selected for an interview will be notified of the date and time of such interview by the Office of Admissions.

Notice of acceptance or other action by the Committee on Admissions will be on a "rolling" or periodic schedule; therefore, early completion of the application is in the best interest of the student. All application documents should be received by March 15 in order for the applicant to be considered for admission in the fall of the same year. Inquiries should be directed to:

Office of Admissions
College of Pharmacy
Nova Southeastern University
3200 South University Drive
Ft. Lauderdale, FL 33328
(954) 262-1101 or
(800) 356-0026, Ext. 1101
Circumstances may warrant that a student enrolled in one pharmacy college seeks to transfer to another institution. Any individual wishing to transfer to Nova Southeastern University College of Pharmacy must:

1. Make a formal application to the NSU College of Pharmacy Office of Admissions

2. Meet admission requirements to NSU College of Pharmacy, which include submitting official transcripts of all college work (including pharmacy transcripts), and letters of evaluation. The applicant must be interviewed.

3. Be in good standing at the transferring institution, as documented by a letter from the Dean of the transferring institution

4. Supply one letter of recommendation from a faculty member of the transferring institution

5. Supply a written statement outlining reasons for request for transfer

Decisions on transfer applications are made by the Dean. The decision will be based on factors which include, but are not limited to: academic record, circumstances leading to the transfer request, available space, and admission standards.

Students entering the College of Pharmacy with an advanced standing may be given credit for courses which are applicable to the courses outlined in the curriculum of the College of Pharmacy.

The Dean's Office will evaluate the courses and determine appropriate credits. The program, however, must be completed in seven calendar years. A minimum of 16 credit hours of didactic course work and a minimum of five clerkships must be completed at Nova Southeastern University.

Foreign Course Work

Undergraduate course work taken at a foreign institution should be evaluated for U.S. institution equivalence. Foreign course work must be evaluated by one of the services listed below. You should contact:

World Education Services, Inc.
P.O. Box 745 Old Chelsea Station
New York, NY 10113-0745
(212) 966-6311

or

Josef Silney & Associates, Inc.
International Education Consultants
P.O. Box 248233
Coral Gables, FL 33124
(305) 666-0233

or

Education Credential Evaluators, Inc.
P.O. Box 92970
Milwaukee, WI 53202-0970
(414) 289-3400

It is the applicant's responsibility to have this course work evaluated, and an official evaluation must be sent to the Office of Admissions.

Student Housing

Nova Southeastern University offers on-campus housing. Numerous apartments, condominiums, and other rental housing facilities are located near the Ft. Lauderdale campus. Information concerning housing may be obtained from the:

Office of Residential Life
Nova Southeastern University
3301 College Avenue
Ft. Lauderdale, FL 33314
(954) 262-7052.
Tuition & Fees

1. Anticipated tuition for 1999-2000 (subject to change by the Board of Trustees without notice): $13,400 for Florida residents and $16,200 for out-of-state students. A student activities fee of $100 each year is required from all students.

Eligible students must request in-state tuition on application. For tuition purposes, students' Florida residency status (in-state or out-of-state) will be determined at initial matriculation and will remain the same throughout the entire enrollment of the student at NSU. Accordingly, tuition will not be adjusted as a result of any change in residency status after initial enrollment registration.

2. Acceptance Fee – $100. This fee is required to reserve the accepted applicant’s place in the entering first-year class. This advance payment will be deducted from the tuition payment due on Registration Day, but is not refundable in the event of a withdrawal. It is payable within two weeks of an applicant’s acceptance.

3. Deposit – $400. This is due March 15, under the same terms as the Acceptance Fee.

4. Pre-registration Fee – $500. This is due May 15, under the same terms as the Acceptance Fee.

5. University Technology Fee: not to exceed $50 when implemented.

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 four years of professional education. This should include tuition, living expenses, books, equipment, and miscellaneous expenses.

It is required that each student carry adequate personal medical and hospital insurance. Students may avail themselves of the hospitalization insurance plan obtainable through the University.

Expenses & Financial Aid

Students should anticipate spending approximately $1,000 a year for books, 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 for some families may make it necessary for the student to obtain assistance from other sources.

The purpose of the Student Financial Aid Program at Nova Southeastern University is 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. These financial assistance programs are described in a separate University publication: Financial Planning For Your Health Professions Education. For a copy or information, contact:

Department of Student Financial Aid
Nova Southeastern University
3301 College Avenue
Ft. Lauderdale, FL 33314
(954) 262-3380

Opportunity for a limited number of part-time work assignments is available. However, the demands of a program of professional study limit the number of hours a student can work.
Welcome To Our Campus

The Health Professions Division Facilities

1. TERRY ADMINISTRATION BUILDING
   First Floor
   Student Affairs
   Admissions
   Financial Aid
   HPD Cafeteria
   Second Floor
   College of Allied Health
   Occupational Therapy Program
   Physical Therapy Program
   Physician Assistant Program
   Public Health Program
   Third Floor
   College of Medical Sciences
   College of Pharmacy
   Fourth Floor
   College of Osteopathic Medicine
   College of Optometry
   Fifth Floor
   HPD Administration

2. ASSEMBLY BUILDING
   Finkelstein Auditorium- 125 seat
   Jonas Auditorium- 125 seat
   Melnick Auditorium- 125 seat
   Terry Auditorium- 125 seat
   Auditoria A,B,C, and D- 125 seats each
   Central Auditorium- 500 seat
   Hull Auditorium- 250 seat
   Seminar Rooms

3. LIBRARY/LABORATORY BUILDING
   First Floor
   Drug Information Center
   Harvey Cardiac Simulation Room
   HPD Library
   Student Computer Laboratory
   Patient Simulation Center
   Second Floor
   Occupational Therapy Laboratories
   Optometry Laboratories
   Physical Therapy Laboratory
   Student Lounge
   Osteopathic Manipulative Medicine Laboratory
   Third Floor
   Basic Science Laboratories
   Gross Anatomy Laboratories
   Microscopy Laboratory
   Research Laboratories
   Moran Pharmacy Practice Laboratory
   Pharmacokinetics Laboratory
   Pharmaceutics Laboratory

4. CAMPUS PHARMACY

5. SANFORD L. ZIFF HEALTH CARE CENTER
   First Floor
   Family Medicine
   Occupational Therapy
   Pediatrics
   Dermatology
   Physical Therapy
   Radiology
   Second Floor
   Optometry Clinics
   Optometry Dispensary
   Third Floor
   Business Offices
   Specialty Clinics (Cardiology, Internal Medicine, Osteopathic Manipulative Medicine, Pulmonary Medicine)
   Emergency Medicine Training Center

6. DENTAL MEDICINE BUILDING
   First Floor
   Oral Medicine and Radiology Clinic
   Oral Surgery Clinic
   Student Dental Clinic
   Second Floor
   Faculty Practice
   Postgraduate Endodontic Clinic
   Postgraduate Orthodontic Clinic
   Postgraduate Pediatric Dentistry Clinic
   Postgraduate Periodontic Clinic
   Postgraduate Prosthodontic Clinic
   Third Floor
   Auditorium
   Central Sterilization Area
   Faculty Offices
   Student Dental Supply Depot

7. Parking Garage
University Campus

8. A.D. Griffin Sports Complex
9. Athletics Field
10. Athletics House
11. Baudhuin School / LaBonte Institute
12. Business Annex (not shown)
13. Central Services Building
14. Cultural Living Center
15. Farquhar Hall
16. Founders Hall
17. Leo Goodwin, Sr., Residence Hall
18. Health Professions Division Complex
19. Horvitz Administration Building
20. Mailman Family Center
22. Maltz Psychology Building
23. Miami Dolphins Training Center
24. Modulars
25. Parker Building
26. Recreation Complex
27. Rosenthal Student Center
28. Science Laboratory Annex
29. Shepard Broad Law Center
30. University School (Lower)
31. University School (Middle/Upper)
32. Vetel Hall

Directions From Fort Lauderdale/Hollywood International Airport

Take I-595 West to University Drive. Exit, go south to S.W. 30th Street. Turn left and make an immediate right into the Health Professions Division Complex.

From I-95, North or South, or Florida’s Turnpike, North or South

Take I-595 exit westbound. Proceed on I-595 to University Drive. Exit, go south to S.W. 30th Street. Turn left and make an immediate right into the Health Professions Division Complex.