1998

College of Pharmacy-For the 1998 Entering Class

Nova Southeastern University

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NOVA SOUTHEASTERN UNIVERSITY

COLLEGE OF PHARMACY

FOR THE 1998 ENTERING CLASS
Nova Southeastern University, synonymous with dynamic innovation and intellectual challenge, is the largest private university in the state of Florida, and, with an enrollment of approximately 15,000, 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 excitement 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 service to the students, creative and relevant programming, 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 ten 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, and the Caribbean.

With a budget of approximately $196 million a year and an upward trend in enrollment, the University will continue to maintain a solid record of academic and fiscal strength while actively pursuing excellence in teaching, research, and community service.
Mission Statement

Nova Southeastern University is a dynamic, not-for-profit, independent institution dedicated to providing high quality educational programs of distinction from pre-school 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 traditional Doctor of Pharmacy (Pharm.D.) degree as well as the post-baccalaureate 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.). The College of Medical Sciences grants the Master of Biomedical Science (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 dollar Health Professions Division complex, covering 21 acres of the University campus. The Division includes seven buildings totaling 900,000 square feet of space for classrooms, laboratories, offices, Health Professions Division Library, and an outpatient health 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, scholarships 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.
A Wider Role In The Health Care Team

Pharmacists are health care professionals who use their knowledge about drugs and therapeutic goals, their uses, formulation, contraindications, adverse effects, incompatibilities and potential for drug interactions in patient care.

As drugs have become more potent and specific, and information more plentiful, pharmacists have assumed a primary responsibility for monitoring drug therapy outcomes. The pharmacist's role has rapidly expanded from drug compounding and distribution to responsibility for drug therapy.

Opportunities include community pharmacy, nursing home and hospital practice; consulting; the pharmaceutical industry, government and academic institutions.

A dynamic career awaits a committed individual. We invite your inquiries.
Since admitting its charter class in 1987, the College of Pharmacy has:

- Graduated 678 pharmacists

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

- Developed a non-traditional postgraduate Doctor of Pharmacy (Pharm.D.) program for bachelor-level pharmacists seeking to advance professionally. The program, developed in 1991, has graduated 106 professionals, and is among the largest in the nation.

- Developed, in 1995, a 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, cooperation in research projects, and seminars on advances in patient-oriented pharmacy.
First Year
The first year of study provides the foundation of the biomedical sciences. Pharmacokinetics explains the drug metabolism. Pharmacy administration covers the U.S. health care system and the role pharmacy plays. Pharmacodynamics combines pharmacology and medicinal chemistry in the study of drug action and the relationship of chemical structure to human drug responses.

Second Year
The second year is essentially applied information built upon completed basic science course work. Therapeutics addresses the use of drugs in the disease process. Physical Assessment teaches how to monitor the progress of drug therapy. Pharmaceutics is concerned with the science of dosage forms. A Pharmacy Law course and the Prescription Practice course provide background for legally and ethically dispensing prescriptions, counseling patients and studying over-the-counter drugs. Pharmaceutical Marketing presents information on drug distribution while General Education provides an understanding of psychological aspects of health care and pharmacy.

Third Year
In the third year, students hone their analytical skills. Courses in statistics and experimental design, drug literature evaluation and the interpretation of biopharmaceutic and laboratory data are directed toward this. An advanced course in pharmacotherapeutics which emphasizes case presentations is offered. The second half of the third year is externship which addresses drug distribution systems in community and hospital pharmacies.

Fourth Year
The final year of the Pharm.D. curriculum is composed of full-time clerkships. The semester includes four 160-hour rotations in preassigned practice areas. During the second semester, students choose electives and practice with more independence and learn to monitor drug therapy to maximize benefits and minimize side effects. During this semester, students select four 160-hour rotations in specialty areas.
### Curriculum Outline

This curriculum is undergoing revision and is subject to approval but it is anticipated that it will be implemented in 1998-99.

#### FIRST YEAR

**First Semester**
- PPS 3160 Pharmacy Calculations
- PHS 5210 Anatomy and Pathophysiology I
- PPS 3100 Physical Pharmacy
- BCH 5200 Biochemistry
- PPS 3200 Pharmacodynamics I
- PAD 3300 Pharmacy Administration I
- PAD 3000 Dean's Hour I

**Second Semester**
- PHS 5220 Anatomy and Pathophysiology II
- PPS 3140 Pharmacokinetics
- PPS 3220 Pharmacodynamics II
- MIC 5200 Microbiology
- PAD 3320 Pharmacy Administration II
- PAD 3020 Dean's Hour II

#### SECOND YEAR

**First Semester**
- PPD 4400 Therapeutics I
- PPS 4140 Pharmaceutics
- PAD 4380 Pharmacy Law
- PAD 4300 General Education I
- PPS 4240 Pharmacodynamics III
- --- Pharmaceutical Science Electives

**Second Semester**
- PPD 4420 Therapeutics II
- PPD 4460 Physical Assessment
- PPS 4260 Pharmacodynamics IV
- PPS 4180 Prescription Practice
- PPS 4320 General Education II
- PPS 4360 Pharmaceutical Marketing

#### THIRD YEAR

**First Semester**
- PAD 5300 Experimental Design
- PPD 5600 Drug Literature Evaluation
- PPS 5100 Clinical Pharmacokinetics
- PPD 5440 Advanced Pharmacotherapeutics
- --- Pharmaceutical Science Electives

**Second Semester**
- PPD 5500 Externship I
- PPD 5520 Externship II

#### FOURTH YEAR

**First Semester**
- PPD 6620 Clerkship II (Internal Medicine)
- PPD 6640 Clerkship II (Ambulatory Care)
- PPD 6660 Clerkship II (Geriatric Care)
- PPD 6680 Clerkship II (Drug Information)

**Second Semester**
- PPD 6520 Clerkship III
- PPD 6540 Clerkship III
- PPD 6560 Clerkship III
- PPD 6580 Clerkship III
Admissions 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** – 8 semester hours, including laboratory
- **General chemistry** – 8 semester hours, including laboratory
- **Organic chemistry** – 8 semester hours, including laboratory
- **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.

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 all admission requirements to NSU College of Pharmacy, which include submitting official transcripts of all college work (including pharmacy transcripts), PCAT scores, 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's Office. 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 credits for courses and credits 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.

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.
Tuition & Fees

1. Anticipated tuition for 1998-99 (subject to change by the Board of Trustees without notice): $12,940 for Florida residents and $15,600 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 based upon initial admission 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.

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.

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.

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 at 3301 College Avenue, Ft. Lauderdale, FL 33314, Tel. (954) 262-7052.
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 seats
   - Jonas Auditorium- 125 seats
   - Melnick Auditorium- 125 seats
   - Terry Auditorium- 125 seats
   - Auditoria A,B,C, and D- 125 seats each
   - Central Auditorium- 500 seats
   - Hull Auditorium- 250 seats
   - 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
   - Physical Medicine and Rehabilitation

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
   
   Third Floor
   - Auditorium
   - Central Sterilization Area
   - Faculty Offices
   - Student Dental Supply Depot

7. PARKING GARAGE
<table>
<thead>
<tr>
<th>Number</th>
<th>Building Name</th>
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<tbody>
<tr>
<td>8</td>
<td>A.D. Griffin Sports Complex</td>
</tr>
<tr>
<td>9</td>
<td>Athletics Field</td>
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<tr>
<td>10</td>
<td>Athletics House</td>
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<tr>
<td>11</td>
<td>Baudhuin School / Labonte Institute</td>
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<tr>
<td>12</td>
<td>Business Annex (Not Shown)</td>
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<tr>
<td>13</td>
<td>Central Services Building</td>
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<td>14</td>
<td>Cultural Living Center</td>
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<td>15</td>
<td>Farquhar Hall</td>
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<td>16</td>
<td>Founders Hall</td>
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<tr>
<td>17</td>
<td>Leo Goodwin, Sr., Residence Hall</td>
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<tr>
<td>18</td>
<td>Health Professions Division Complex</td>
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<tr>
<td>19</td>
<td>Horvitz Administration Building</td>
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<td>20</td>
<td>Mailman Family Center</td>
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<td>21</td>
<td>Mailman-Hollywood Building</td>
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<td>22</td>
<td>Maltz Psychology Building</td>
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<td>23</td>
<td>Miami Dolphins Training Center</td>
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<td>24</td>
<td>Modulairs</td>
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<td>25</td>
<td>Parker Building</td>
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<td>26</td>
<td>Recreation Complex</td>
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<td>27</td>
<td>Rosenthal Student Center</td>
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<td>28</td>
<td>Science Laboratory Annex</td>
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<td>29</td>
<td>Shepard Broad Law Center</td>
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<tr>
<td>30</td>
<td>University School (Lower)</td>
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<tr>
<td>31</td>
<td>University School (Middle/Upper)</td>
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<tr>
<td>32</td>
<td>Vettel Hall</td>
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</tbody>
</table>

**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.