1996

Health Professions Division Academic Year 1996-1997

Nova Southeastern University

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I certify this catalog as true and correct in content and policy.

Debra A. Puzzo
Veterans Benefits Coordinator
Mission Statement
Nova Southeastern University

Nova Southeastern University provides educational programs of distinction from pre-kindergarten through the doctoral level at times and locations convenient to students, prepares students for leadership roles in business and the professions, encourages research and community service, and fosters an atmosphere of creativity and innovation utilizing technology where appropriate.

Approved by the Board of Trustees, June 22, 1992; a change in name was approved effective with the January 1, 1994 merger of Nova University and Southeastern University of the Health Sciences, forming Nova Southeastern University.
The mission of Nova Southeastern University Health Professions Division is to train primary care health practitioners in a multidisciplinary setting, with an emphasis on medically underserved areas.

The institutional premise is that health professionals should be trained in a multidisciplinary setting and, whenever possible, with integrated education. The University trains students in concert with other health profession students so that the various disciplines will learn to work together as a team for the good of the public's health. During their didactic work, students share campus facilities and, in some cases, have combined classes. In their clinical experiences, they work together in facilities operated by the University.

Furthermore, the Division aims to educate health care practitioners who will eventually increase the availability of health care in areas of Florida that suffer from health care shortages. The Division aims to alleviate some of these shortages by exposing the entire student body to the needs, challenges, and rewards of rural, underserved urban, and geriatric care. Existing curricula require all students to attend ambulatory care clerkships in rural or urban areas, or both, making Nova Southeastern University strongly oriented toward a pattern of training its students in areas geographically removed from the health center itself, and to the care of indigent and multicultural population groups.

In doing this, it developed training programs which address the primary care needs of the region's most medically underserved populations.
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.

---

**Notice:** Credits and degrees earned from colleges within the State of Florida which are licensed by the State Board of Independent Colleges and Universities do not automatically qualify the individual to participate in professional examinations in Florida. The established procedure requires the appropriate State professional board to review and recognize the colleges granting the degrees prior to scheduling examinations. Additional information regarding Nova Southeastern University Health Professions Division and its Colleges of Osteopathic Medicine, Pharmacy, Optometry, Allied Health, Medical Sciences, and Dental Medicine may be obtained by contacting the State Board of Independent Colleges and Universities, Department of Education, Tallahassee, FL. Any student interested in practicing a regulated profession in Florida should contact the Department of Business and Professional Regulation, 2009 Apalachee Parkway, Tallahassee, FL 32301.
COLLEGE OF OSTEOPATHIC MEDICINE
COLLEGE OF PHARMACY
COLLEGE OF OPTOMETRY
COLLEGE OF ALLIED HEALTH
COLLEGE OF MEDICAL SCIENCES
COLLEGE OF DENTAL MEDICINE

3200 S. University Drive  Fort Lauderdale, FL 33328
(954) 723-1100
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Letter From The President

Nova Southeastern University is committed to providing an educational environment that encourages students to be the best that they can be. Historically, Nova has provided quality education through a diverse array of delivery systems ranging from the traditional to state-of-the-art electronic technologies. Consistent with our mission statement, we prepare students for leadership roles in the professions and provide support for research and community service while maintaining an environment fostering creativity and innovation. We recognize that, as Will Rogers noted, "Even if you're on the right track, if you just sit there, you'll get run over."

Given our commitment to providing educational opportunities that prepare tomorrow's professionals to serve optimally their professions, patients, and society, it is essential that curricula be designed at each level to effectuate this mission. Tomorrow's professionals must possess not only the traditional attributes—expertise, ethical sensibilities, and commitment to furthering professional and societal values—but also the capacity to utilize contemporary technology, to apply and appreciate relevant findings and approaches of other disciplines, and to operate in a culturally diverse milieu.

Nova Southeastern's goal is to maintain and enhance an array of professional schools and concomitant programs required to fulfill its mission. It must support, enhance, and expand existing professional centers and, where appropriate, reorganize University components to facilitate synergy and enhance the education of professionals. We believe that education is not merely a means to an end, but is itself intrinsically valuable. Accordingly, the time spent at Nova Southeastern by students, faculty, and staff should be informative, exciting, and rewarding.

We welcome you in joining in our common mission of creating the best possible educational setting.

Ovid Lewis, J.S.D.
President
Letter From The Chancellor

As Florida's only institution of graduate health care education, the Health Professions Division of Nova Southeastern University will make you a leader of your chosen discipline.

Long before the current shortage of primary care physicians, the College of Osteopathic Medicine developed a program which provides for greater efficiency, continuity and coordination of clinical training for primary care-oriented students: the Seven Year track in Family Medicine. Our curriculum exposes students to patient settings in their first year, a fact that has attracted interest from students and academicians from across the country.

Our College of Pharmacy has established satellite classrooms and clinical training networks to ensure that Florida's pharmacists may continue in their careers while learning the latest advances in patient-oriented pharmaceutical care.

Optometry is a rapidly evolving profession, and our College of Optometry is training students in pathology, diagnostic and therapeutic drug therapy, and modern techniques in imaging and lasers. Residency programs prepare graduates to work in health care systems featuring collaboration with physicians in medical and surgical co-management of patients.

The College of Allied Health's programs ensure increased professionalization of mid-level and rehabilitative care providers for supporting roles in the health care team.

This year, our College of Medical Sciences admitted a charter class preparing for clinical, academic, or scientific careers, and in 1997, we intend to revolutionize current thinking about dental education as our College of Dental Medicine admits its charter class.

As the 21st century approaches, our society faces changes as dramatic as those ushered in by modern medicine and science, and our commitment to excellence in health professions education and to caring community service has never been stronger. With our recent move into a state-of-the-art complex on the main University campus, we now offer the most advanced health education facility in the nation.

Morton Terry, D.O.
Chancellor
Administration

Ovid C. Lewis, J.S.D., President
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NOVA SOUTHEASTERN UNIVERSITY HEALTH PROFESSIONS DIVISION

ACADEMIC CALENDAR

(This is a provisional calendar for the years 1996-1998, listing major dates and holidays. It is subject to change at any time by the University. For more specific dates and other academic events, please consult the specific college, or the university executive office.)

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*Osteopathic Medicine, Pharmacy, Optometry, Physician Assistant, Public Health

(All dates subject to change by Administration)
(Individual College Schedules may be obtained from the College Offices)
University History

Sustained growth and unity has made Nova Southeastern University the largest independent institution in the state of Florida. This growth culminated in January, 1994, when Nova University and Southeastern University of the Health Sciences merged to become Nova Southeastern University.

Nova University was chartered in 1964 as a graduate institution in the physical and social sciences. Over time, they expanded and incorporated programs in law, education, business, psychology, computer science, oceanography, social and systemic studies, and hospitality. Significant growth came in 1972 when Nova University introduced its first off-campus course of study in education. Soon after, Nova University became nationally recognized for its innovative telecommunication and distance learning programs. Today, field-based programs are located in 32 other Florida cities, in more than 21 other states, and at selected international cities.

While Nova University continued to expand its educational reach, Southeastern University of the Health Sciences also was on a major expansion course. Historically known for its dedication to health care education, Southeastern University was created from the commitment of osteopathic physicians to establish a college of osteopathic medicine in the southeastern United States. As a result, the Southeastern College of Osteopathic Medicine (SECOM), as it was first known, opened its doors to the charter class in 1981.

During a ten year span that followed (1987-1997), the University added five colleges: the College of Pharmacy, the College of Optometry, the College of Allied Health, the College of Medical Sciences, and its newest expansion, the College of Dental Medicine which will admit a charter class of 75 students in 1997. This growth was unprecedented, but not unsurpassed. There was still more to come.

In the midst of this expansion, the merger brought on new possibilities. Prior to the 1994 merger, Nova University had evolved with innovative technology and Southeastern University of the Health Sciences had answered the call to provide much needed primary health care education. With the merger, Nova Southeastern University has united resources that make possible a more transdisciplinary education. Pre-professionals will now have an opportunity to integrate across the disciplines and understand how their professions relate to society as a whole. Thus, this merger proved to be of ultimate potential by guaranteeing the success of one more stepping stone that will lead us into the future of education.

Campus

Nova Southeastern University's Health Professions Division offers a rare blend of tropical South Florida weather, plentiful sunny beaches, an easily accessible campus, a dedicated and professional faculty, well established affiliations with many hospitals, clinics, and health care systems in the area, and a mission to educate professionals capable of providing the highest quality health care service.

The University's main campus is located on a lush 217-acre site in Fort Lauderdale, 10 miles inland of the Atlantic Ocean and readily accessible via several highways and Florida's Turnpike.

The Health Professions Division campus, dedicated in June, 1996, is located on 21 acres and encompasses over 850,000 square feet of buildings. The Division comprises the Colleges of Osteopathic Medicine, Pharmacy, Optometry, Allied Health, and Medical Sciences. Space has also been allocated for the future site of the College of Dental Medicine, which will open August, 1997.
In its quest to develop the premier training facility for tomorrow's health care team, the Division elicited input from students, faculty, and Deans, and incorporated cutting-edge innovations in architecture, ergonomics, and computer-aided technology to ensure that students and faculty would have facilities that enhanced the learning experience.

The campus is an arrangement of six buildings, three of which are connected by air conditioned lobbies. The remaining three structures, the Health Center, the Physical Plant and 1600-space parking garage, are connected to the central buildings by covered walkways. College and Division administration, and faculty offices, are headquartered in the upper levels of the five-story Administration Building, with the Department of Admissions and Student Affairs and a cafeteria located on the first floor.

Behind the Administration Building is the Assembly Building, which consists of a 500-seat auditorium, a 250-seat auditorium, and eight 126-seat amphitheatre-classrooms, all supplemented by computerized audio/video systems.

Connected to this is the three-story Library/Laboratory Building. On the first floor is the Health Sciences Library and a 100-seat Cardiac Laboratory utilizing "Harvey," a computerized mannequin which duplicates the sounds and symptoms of most normal and abnormal heart conditions.

Also on the first floor are patient simulation training rooms and a 50-station computer laboratory for student use. The Simulation Laboratory's eight examination rooms allow taping and monitoring of physical examinations and treatment. The second and third floors house laboratories, student lounge, and a research area. Laboratories are equipped for viewing pre-taped medical procedures, and each large laboratory has a video system and hookups to specialized equipment such as an electron microscope, so that illustrations can be amplified for lab-wide viewing.

Just north of the Library/Laboratory Building is the Health Center, with facilities for primary health care, rehabilitative services, and eye care.

**Foreign Course Work**

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

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

  or

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

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

**Tuition Refund Policy - Voluntary Withdrawals**

Students who wish to withdraw must submit a written request for voluntary withdrawal to the Dean, who will evaluate the student's request. After completing the required withdrawal form(s) and obtaining the Dean's approval, an eligible student may receive partial refund of the annual tuition, according to the following formula:

<table>
<thead>
<tr>
<th>Class Days</th>
<th>Refund Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>First three (3)</td>
<td>70%</td>
</tr>
<tr>
<td>Fourth or fifth</td>
<td>60%</td>
</tr>
<tr>
<td>Sixth or seventh</td>
<td>40%</td>
</tr>
<tr>
<td>Eighth, ninth or tenth</td>
<td>20%</td>
</tr>
<tr>
<td>After the tenth class day</td>
<td>0%</td>
</tr>
</tbody>
</table>
NO REFUNDS WILL BE MADE THEREAFTER.

Tuition refunds are based on total tuition charged, exclusive of fees, not necessarily on amount paid. Students will not be given refunds for portions of tuition paid by financial aid funds. Instead, the respective financial aid programs will be credited in accordance with Federal regulations, which establish the following requirements for recipients of Title IV student assistance funds (Guaranteed Student Loans and Auxiliary Loan Program).

The regulation requires that if the student has received a financial aid overage to assist with related, but indirect educational costs, i.e., living expenses, books, supplies, transportation and/or personal expenses, this must be prorated for the period the student attended the institution. The student must then refund the difference (between the actual overage and prorated amount) to the institution for restoration to the appropriate Title IV account.

Failure to comply with these requirements could jeopardize future receipt of Title IV student assistance funds at any institution the student may attend.

A refund due the student will be mailed to the student’s permanent home address as soon as the withdrawal has been approved by the Dean of the respective College. The tuition refund policy is subject to change at the discretion of the Board of Trustees.

Florida Residency

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 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.

Financial Aid

The purpose of the Student Financial Aid Program at the Health Professions Division is to help as many qualified students as possible to complete their 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 Freedom.

Physical Examination

Every incoming first-year student is required to have a complete physical examination by a licensed physician as well as a complete eye examination. Forms to be completed by the student’s physician are sent to each new student during the summer prior to the opening of college.

Health Insurance

It is required that each student carry adequate personal medical and hospital insurance. It is strongly suggested that students and their families avail themselves of the insurance plan obtainable through the University. Students who choose another policy will be required to show proof of adequate continuing medical coverage for the mandatory insurance. Those with lapsed or inadequate insurance will be held financially responsible for obligations incurred prior to graduation.

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, (954) 475-7052.
Miscellaneous

Service Units

Health Centers

The Health Professions Division Health Centers serve an important function and an integral part of the training programs. They provide a vital community function by bringing health care service to areas whose medical needs traditionally have gone unmet.

NSU Health Center at Fort Lauderdale, 1111 West Broward Blvd., Ft. Lauderdale, Florida. Contained within this full-service primary care facility is Family Medicine; the Optometric Clinic and Optical Dispensary; Physical Medicine and Rehabilitation; Occupational Therapy; a full-service Pharmacy; and a newly completed Women and Children's Center, delivering gynecological, obstetric, and pediatric services. (25,200 sq. ft. within three buildings)

NSU Health Center at Opa Locka, 1980 Opa Locka Boulevard, Opa Locka, Florida. This facility houses a full-service primary care family medicine practice as well as a comprehensive optometric clinic and optical dispensary (3,600 sq. ft.).

NSU Health Center at North Miami Beach, 1750 NE 167th Street, N. Miami Beach, Florida. Clinic services ongoing at this site are physical medicine and rehabilitation, occupational therapy, physical therapy, and a full-service optometric clinic and optical dispensary.

NSU Health Center at Davie, 3200 S. University Drive, Fort Lauderdale, Florida. A primary care facility with state-of-the-art full service radiologic-diagnostic capabilities. Contained here are family medicine, pediatrics, x-ray, occupational therapy, physical therapy, physical medicine and rehabilitation, optometric clinic, and optical dispensary, cardiology and other special practices (67,000 sq. ft.).

Core Performance Standards for Admission and Progress

The Nova Southeastern University Health Professions Division is pledged to the admission and matriculation of qualified students and wishes to acknowledge awareness of laws which prohibit discrimination against anyone on the basis of race, color, national origin, religion, sex or disability.

Regarding disabled individuals, the University will not discriminate against such individuals who are otherwise qualified but will expect applicants and students to meet certain minimal technical standards (core performance standards) as set forth herein with or without reasonable accommodation. In adopting these standards, the University believes it must keep in mind the ultimate safety of the patients whom its graduates will eventually care for. The standards reflect what the University believes are reasonable expectations of health care students and personnel in performing common functions.

The holder of health care degrees must have the knowledge and skills to function in a broad variety of clinical situations and to render a wide spectrum of patient care. In order to carry out the activities described below, candidates for Health Professions Division degrees must be able to integrate consistently, quickly, and accurately all information received, and they must have the ability to learn, integrate, analyze, and synthesize data.

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; hearing, visual, tactile, behavioral and social attributes. Candidates for admission and progression must be able to perform
these abilities and skills in a reasonably independent manner.

**Intellectual, Conceptual, Integrative, and Qualitative Abilities**

These abilities include measurement, calculation, reasoning, analysis, and synthesis. Problem solving, a critical skill, requires all of these intellectual abilities. Candidates and students must have critical thinking ability sufficient for good clinical judgment. This is necessary to identify cause-effect relationships in clinical situations and to develop plans of care. In addition, candidates and students should be able to comprehend three-dimensional relationships and to understand the spatial relationships of structures.

**Interpersonal**

Candidates and students should be able to interact with and observe patients in order to elicit information, examine patients, describe changes in mood, activity, and posture, and perceive nonverbal communications. They must be able to communicate effectively and sensitively with patients. Communication includes not only speech but also reading and writing. They must also be able to communicate effectively and efficiently in all written forms with all members of the health care team. They must have interpersonal abilities sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds.

**Motor Skills**

Candidates and students should have sufficient motor function to execute movements reasonably required to provide general care and emergency treatment to patients. Examples of emergency treatment reasonably required of some health care professionals are cardiopulmonary resuscitation, administration of intravenous medication, the application of pressure to stop bleeding, the opening of obstructed airways, and the ability to calibrate and use various pieces of equipment. Such actions require coordination of both gross and fine muscular movements, equilibrium, and functional use of the senses of touch and vision. Physical therapy and occupational therapy students must be able to position patients for treatment as well as the teaching of functions involving gross and fine movements. Pharmacy candidates and students must have sufficient motor skills to weigh chemical and pharmaceutical (including intravenous) solutions, prepare prescriptions and carry out sterile procedures.

**Strength and Mobility**

Candidates and students must have sufficient mobility to attend to emergency codes and to perform such maneuvers as CPR when required. They must have the physical ability sufficient to move from room to room and to maneuver in small places. Osteopathic medical students must have the ability to position patients for the administration and delivery of osteopathic manipulative treatment. Pharmacy students must be able to move about within a pharmacy setting and a patient's room. Physical therapy and occupational therapy students must be able to administer treatment in a variety of settings and to position and move patients when required.

**Hearing**

Candidates and students should have sufficient auditory ability to monitor and assess health needs. They must be able to hear information given by the patient in answer to inquiries, to hear cries for help, to hear features in an examination, such as the auscultatory sounds, and to be able to monitor equipment.

**Visual**

Candidates and students must have visual ability sufficient for observation and assessment necessary in patient care. It
must be consistent in many cases with being able to assess asymmetry, range of motion and tissue texture changes. Osteopathic Medical, Optometric and Physician Assistant students must have visual ability sufficient to use ophthalmologic instruments. It is necessary to have adequate visual capabilities for proper evaluation and treatment integration. Candidates and students must be able to observe the patient and the patient’s responses including body language and features of the examination and treatment. Pharmacy students must be able to interpret prescriptions and medical orders as well as to inspect medicines for deterioration or expiration.

Tactile
Candidates and students must have sufficient tactile ability for physical assessment. They must be able to perform palpation, functions of physical examination and/or those related to therapeutic intervention. Pharmacy students must be able to measure and compound, sometimes transferring from container to container and to carry out sterile procedures.

Behavioral and Social Attributes
Candidates and students must possess the emotional health required for full utilization of their intellectual abilities, the exercise of good judgment, the prompt completion of all responsibilities attendant to the diagnosis and care of patients, and the development of mature, sensitive and effective relationships with patients. Candidates and students must be able to tolerate physically taxing workloads and to adapt to changing environments, to display flexibility and to learn to function in the face of uncertainties inherent in the clinical problems of many patients. Compassion, integrity, concern for others, interpersonal skills, interest and motivation are all personal qualities that will be assessed during the admissions and education processes.
College of Osteopathic Medicine
An Osteopathic Physician

Two types of complete physicians may practice medicine in all 50 states: the Doctor of Osteopathic Medicine (D.O.) and the allopathic Doctor of Medicine (M.D.). While both types of physicians are trained in all aspects of patient care, D.O.s offer a distinct, wholistic approach to medicine.

Osteopathic medicine is distinguished by an emphasis on family practice rather than specialization, by utilizing osteopathic manipulative medicine when necessary, and by a tradition of caring for patients in underserved rural and urban areas.

Osteopathic physicians recognize the relationship between physical structure (musculoskeletal) and organic function and view the human body as an interdependent unit rather than an assortment of separate parts and systems.

While all medical, surgical, and obstetric specialties are represented within the osteopathic medical profession, the training of vitally needed family physicians, and the drive to reach rural, minority, geriatric and indigent populations, makes the osteopathic medical profession unique.

We are proud of our success in producing vitally needed primary care physicians—over 69 percent of our graduates practice in the primary care disciplines of family medicine, general internal medicine, or general pediatrics—and we remain committed to training physicians capable of delivering the highest standards of total-patient care in all practice settings.

Accreditation

Nova Southeastern University College of Osteopathic Medicine has been granted accreditation by the Bureau of Professional Education of the American Osteopathic Association. This body is recognized by the U.S. Department of Education and the Council of Post-Secondary Accreditation as the accrediting agency for colleges educating osteopathic physicians and surgeons.

Requirements for Admission

Applicants for the first-year class must meet the following requirements prior to matriculation:
1. A bachelor's degree from a regionally accredited college or university.

2. Completion, with a grade of 2.0 or better, of:
   A. Eight semester hours of each of the following courses:
      General biology, including laboratory
      Inorganic chemistry, including laboratory
      General chemistry, including laboratory
      Physics, including laboratory
   B. Three semester hours of each of the following courses:
      English literature
      English composition

   These are minimum academic requirements for admission. Students are encouraged to take additional courses in embryology, genetics, behavioral sciences and the humanities.

   Preference will be given to students with a cumulative grade point average of 3.0 or higher. However, the Dean is empowered to evaluate the total qualifications of every student and to modify requirements in unusual circumstances.

3. All applicants are required to take the Medical College Admissions Test (MCAT). Applications for the MCAT may be obtained from your college's pre-professional advisor's office, or by writing directly to Medical College Admission Test, Post Office Box 451, Iowa City, Iowa 52240.

   The discipline of intensive study required by osteopathic medicine makes the attainment of a superior GPA in undergraduate studies essential.

   The College receives over 3,500 applications a year, from which only 150 students are chosen. These students have varied backgrounds, and while many enter the College directly from an undergraduate program, other students come from successful careers. Entering students have included pharmacists, physician assistants, nurses, teachers, pilots and engineers.

   The Committee on Admissions selects applicants on the basis of demonstrated academic excellence, leadership, compassion, and commitment to the osteopathic medical profession.

Application Procedure

The College participates in the American Association of Colleges of Osteopathic Medicine Application Service (AACOMAS) for the receipt and processing of all applications. AACOMAS takes no part in the selection of students.

AACOMAS application packets may be obtained from Nova Southeastern University College of Osteopathic Medicine in person or directly from AACOMAS, 6110 Executive Blvd., Suite 405, Rockville, MD 20852, (301) 468-0990.

Listed below are the steps necessary to complete applications before they can be reviewed by the Committee on Admissions:

1. The applicants should mail the following to AACOMAS by January 15:
   - AACOMAS application
   - An official transcript from the Registrar of each college or university attended, mailed directly to AACOMAS by the college or university.
   - MCAT scores
2. The applicant should mail the following to the College by March 30:
   - A supplemental application sent to the applicant by the College on receipt of the AACOMAS application.
   - A non-refundable application fee of $50
   - A letter of evaluation from the pre-professional committee, or, if no such committee exists, three letters of evaluation: two from science professors, and one from a liberal arts professor.
   - A letter of evaluation from an osteopathic physician.

   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 elected for an interview will be notified of the date and time of such interview by the Office of Admissions. Those not elected for an interview will be notified of the decision in writing.

   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 because of the limited number of spaces available in each class.

   **Tuition and Fees**

   The Board of Trustees has established the following tuition and fees, which are subject to change at any time at the Board’s discretion:

   1. Tuition: $18,500 for Florida residents and $21,750 for out-of-state students for the 1997-98 academic year.

   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 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: $250. 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 case of a withdrawal. It is payable within two weeks of an applicant’s acceptance.

   3. Deposit: $750, due March 15, under the same terms as the Acceptance Fee.

   4. Pre-registration Fee: $1000, due May 15, under the same terms as the Acceptance Fee.

   5. Student Activities Fee: $100, payable at each fall registration.

   The first semester’s tuition and fees, less the $2,000 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 medical education, including tuition, living
expenses, books, equipment, rotation travel, and miscellaneous expenses.

Schedule of Application for Admission Cycle

JUNE
Application cycle for the next academic year begins. Inquiries are invited by Nova Southeastern University College of Osteopathic Medicine, and AACOMAS forms are made available.

JULY
Credentials sent to AACOMAS are processed, and applicant records are forwarded to Nova Southeastern University College of Osteopathic Medicine. A supplementary application is then sent to the applicant. When the supplemental application is completed and returned to the Office of Admissions, and when recommendations are received, the completed application is evaluated for interview.

OCTOBER
Personal interviews start.

JANUARY 15
Deadline for applications to AACOMAS.

MARCH 30
Deadline for supplemental applications.

MAY 1
Pre-registration fee is due.

Financial Aid
The purpose of the Student Financial Aid Program at Nova Southeastern University is to help as many qualified students as possible to complete their medical education. Various loans, scholarships, and grants are available to qualified students to help ease the high cost of a medical education. These financial assistance programs are described in a separate University publication: **Financial Freedom**.

Transfer of Credit
Circumstances may warrant that a student enrolled in one osteopathic college seeks to transfer to another institution. Credits may be transferred from medical schools and colleges accredited by the American Osteopathic Association or by the Liaison Committee on Medical Education (LCME) or by other professional schools if, in the opinion of the Dean, these schools have provided course work comparable to that of the College of Osteopathic Medicine.

1. Transfers from one college of osteopathic medicine to another shall require that the last year of instruction be completed within the college granting the D.O. degree.
2. Transfers from an LCME-accredited medical school or college shall require that no less than the last fifty percent (50%) of instruction be completed within the college of osteopathic medicine.
3. Transfer credits shall be given only if the student is eligible for re-admission to the previously attended college of osteopathic medicine or other medical school.

Anyone wishing to transfer to Nova Southeastern University College of Osteopathic Medicine must:

- Make a formal application to Nova Southeastern University College of Osteopathic Medicine Office of Admissions
- Meet all admissions requirements to Nova Southeastern University College of Osteopathic Medicine, which include submitting official transcripts of all college work (including osteopathic transcripts), MCAT scores, National Board
scores, if taken, and letters of evaluation. The applicant must be interviewed.

- Be in good standing at the transferring institution, as documented by a letter from the Dean of the transferring institution
- Supply a letter of recommendation from a faculty member of the transferring osteopathic institution
- 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 admissions standards.

**Dismissal**

Students may be dismissed from the College of Osteopathic Medicine if:

1. They fail four or more classroom courses of two or more credit hours each during any one academic year. In this situation, re-examination will not be allowed.
2. They fail a course they are repeating.
3. They fail more than one month of clinical rotations or fail a clinical rotation they are repeating.
4. They exceed a six-year limit for completing all graduation requirements, exclusive of any approved leave of absence or withdrawal in good standing.
5. In the opinion of the Dean, circumstances of a legal, moral, behavioral, ethical, or academic nature warrant such action, or if, in the Dean's opinion, there are factors that would interfere with or prevent them from practicing the highest quality of osteopathic medicine.

**Suspension**

A student may be suspended (removal from the academic enrollment and revocation of all other privileges or activities and from the privilege of entering the campus for a specific period of time) if, in the opinion of the Dean, the student has not attained the academic level and/or has deviated significantly from the standards of behavior established by the College of Osteopathic Medicine.

If a student is suspended from the College of Osteopathic Medicine, he/she may return to the college when, in the opinion of the Dean, he/she can present adequate evidence that the conditions or factors which caused the suspension have changed significantly so that there is reasonable expectation that the student can perform satisfactorily if permitted to resume his/her studies. The student's prior academic record will remain part of his/her overall academic record and will be recorded on the permanent transcript, but none of the prior grades for courses being retaken will be calculated in the new grade point average.

**Re-admission**

If a student is dismissed from the College of Osteopathic Medicine, he/she may re-apply for admission and will be considered, provided that he/she can present adequate evidence that the conditions or factors which caused the prior poor academic performance have changed significantly, so that there is reasonable expectation that the applicant can per-
form satisfactorily if permitted to re­sume his/her studies.

Re-admission will be solely at the discretion of the Dean. The student's prior academic record will remain part of his/her overall academic record and will be recorded on the permanent transcript, but none of the prior grades will be calculated in the new grade point average.

The College reserves the right, and the student, by his/her act of matriculation, concedes to the College the right, to require his/her withdrawal any time the College deems it necessary to safeguard its standards of scholarship, conduct and compliance with regulations or for such other reasons as are deemed appropriate.

Requirements for Graduation

In order to be eligible for the degree of Doctor of Osteopathic Medicine, each student shall:

1. Have exhibited the moral, ethical, professional, behavioral, and personal characteristics necessary for the practice of osteopathic medicine
2. Have satisfactorily completed the program of study required for the degree, with a minimum of 275 semester hours of course work, with a minimum grade of 70
3. Have satisfactorily met all financial and library obligations
4. Have taken Parts I and II of the National Osteopathic Board examinations
5. Participate, in person, in the rehearsal and commencement program at which time the degree is conferred

Course of Study

The College of Osteopathic Medicine offers a dedicated faculty, well established affiliations with many medical centers, hospitals, and health care systems in the area, a nationally-recognized rural medicine program, and a mission to educate the finest osteopathic physicians possible. We place our students and residents at the nation's fourth largest public hospital system, the North Broward Hospital District, or at one of our Regional Academic Training Centers throughout the state to improve continuity and coordination of clinical education within our vast and growing clinical training network.

The academic program features a two-year classroom curriculum and a two-year clinical curriculum, providing additional clinical training to better prepare students for the "real world" of medicine. The clinical program places students in hospitals, private practices, clinical centers and public health units.

A notable aspect of the clinical program is a required three-month rotation in a rural practice setting. In rural clinics throughout the state, our students provide health care to medically underserved and indigent patients. In these communities, many indigent migrants, Haitians, Guatemalan Indians, African-American, and Caucasian residents live in substandard housing with little access to health care. Our students learn to treat various patient groups whose lifestyles, practices, and attitudes toward health care differ from those seen in more traditional training sites. This enriching educational experience is one that cannot be taught in the classroom.

As we realize that physicians do not work in a vacuum, but as part of a health
with the University's pharmacy, optometry, physician assistant, physical therapy, occupational therapy, and public health students.

CURRICULUM OUTLINE

First Year
First Semester

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<th>Course Title</th>
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<td>ANA 5114</td>
<td>Medical Histology</td>
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Second Semester

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Second Year
First Semester

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<td>IDC 6514</td>
<td>IGC Preceptorship III</td>
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<td>Hematopoietic and Lymphoreticular System</td>
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Second Semester

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<td>IDC 6223</td>
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29
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>Musculoskeletal System</td>
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<td>IDC 6524</td>
<td>Gastrointestinal System</td>
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<td>FME 6221</td>
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**Total Hours**

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<th>Clinical Correlation II</th>
<th>Medical Jurisprudence</th>
<th>Clinical Practicum IV</th>
<th>Pre-Clerkship Seminar</th>
<th>Geriatrics</th>
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**Clinical Rotations**

*Core Rotations (Junior Year - 10 months)*

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>IMA 7124</td>
<td>Internal Medicine</td>
<td>3 months 24</td>
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<tr>
<td>SGN 7108</td>
<td>General Surgery</td>
<td>1 month 8</td>
</tr>
<tr>
<td>PED 7108</td>
<td>Pediatrics-Ambulatory</td>
<td>1 month 8</td>
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<tr>
<td>PED 7208</td>
<td>Pediatrics-Hospital</td>
<td>1 month 8</td>
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<tr>
<td>BMP 7108</td>
<td>Psychiatry</td>
<td>1 month 8</td>
</tr>
<tr>
<td>FMN 7108</td>
<td>Family Medicine-Clinic</td>
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<tr>
<td>OBG 7108</td>
<td>Obstetrics/Gynecology</td>
<td>1 month 8</td>
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<td>FMG 7108</td>
<td>Geriatrics</td>
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*Core Rotations (Senior Year - 5 months)*

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>FMR 8124</td>
<td>Rural Medicine-Ambulatory</td>
<td>3 months 24</td>
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<tr>
<td>FME 8108</td>
<td>Emergency Medicine</td>
<td>1 month 8</td>
</tr>
<tr>
<td>FMN 8108</td>
<td>Family Medicine-Preceptor</td>
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**Electives (Senior Year - 6 months)**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<td>FMN 8208</td>
<td>Family Medicine</td>
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<tr>
<td>FMR 8208</td>
<td>Rural Medicine</td>
<td>1 month 8</td>
</tr>
<tr>
<td>FMP 8108</td>
<td>Rehabilitation/Sports Medicine</td>
<td>1 month 8</td>
</tr>
<tr>
<td>FME 8208</td>
<td>Emergency Medicine</td>
<td>1 month 8</td>
</tr>
<tr>
<td>FMG 8108</td>
<td>Geriatrics</td>
<td>1 month 8</td>
</tr>
<tr>
<td>FMO 8108</td>
<td>Osteopathic Manipulative Medicine</td>
<td>1 month 8</td>
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<tr>
<td>IMA 8108</td>
<td>General Internal Medicine</td>
<td>1 month 8</td>
</tr>
<tr>
<td>IMC 8108</td>
<td>Cardiology</td>
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<tr>
<td>IMG 8108</td>
<td>Gastroenterology</td>
<td>1 month 8</td>
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<tr>
<td>IMH 8108</td>
<td>Hematology/Oncology</td>
<td>1 month 8</td>
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<td>IMR 8108</td>
<td>Rheumatology</td>
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<td>IMN 8108</td>
<td>Neurology</td>
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<td>IMX 8108</td>
<td>Radiology</td>
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<td>IMI 8108</td>
<td>Infectious Diseases</td>
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<td>IME 8108</td>
<td>Endocrinology</td>
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<td>IMD 8108</td>
<td>Dermatology</td>
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<td>IMK 8108</td>
<td>Nephrology</td>
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<td>IMP 8108</td>
<td>Pulmonary Medicine</td>
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<td>IMA 8208</td>
<td>&quot;Harvey&quot;</td>
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<td>IMA 8308</td>
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<td>OBG 8108</td>
<td>Obstetrics/Gynecology</td>
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<td>PED 8108</td>
<td>General Pediatrics</td>
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<td>PED 8208</td>
<td>Neonatology</td>
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<td>Pediatric Sub-specialty</td>
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<td>PTH 8108</td>
<td>Clinical Pathology</td>
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<td>PTH 8208</td>
<td>Forensic Pathology</td>
<td>1 month 8</td>
</tr>
<tr>
<td>SGN 8108</td>
<td>General Surgery</td>
<td>1 month 8</td>
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SGN 8208 Surgical ICU
SOP 8108 Ophthalmology
SAN 8108 Anesthesiology
SUR 8108 Urology
SOR 8108 Orthopedics
SOT 8108 Otorhinolaryngology
SNE 8108 Neurosurgery
SPR 8108 Proctology
SCV 8108 Cardiovascular Surgery
STH 8108 Thoracic Surgery
BMA 8108 Addiction Medicine
BMP 8108 General Psychiatry

College of Osteopathic Medicine Courses
(Note: Listed to the right of each entry are lecture clock hours, laboratory clock hours, and semester hours.)

Anatomy
Chairman and Professor: G.R. Conover; Professor: L. Dribin; Professor Emeritus: F.H. Higginbotham; Associate Professors: J.C. Lanning, A. Mariassey; Assistant Professors: S.C. Barry, R.E. Yip

ANA 5217 (72-36-7)
Gross Anatomy
Study of the structure of the human trunk, extremities, head and neck, including dissection by student teams.

ANA 5423 (36-18-3)
Neuroanatomy
Involves study of the gross structure of the brain and spinal cord and the functional relationship among their parts. Emphasizes major motor and sensory pathways and integrative mechanisms of the central nervous system.

ANA 5114 (20-40-4)
Medical Histology
Study of cells, tissues and organs of the body as seen through the light microscope, involving both lectures and laboratory work. Covers transmission and scanning electron micrographs.

Behavioral Medicine
Chairman and Professor: D. Shaw; Clinical Assistant Professor: N. Patel

Division of Medical Humanities
Chairman and Professor: S. Cohen; Visiting Professor: E. Fleigelman

Division of Psychiatry

BMP 6112 (36-0-2)
Psychiatry
Discusses DSM III criteria and major psychiatric, and psychological disorders.
BMH 5105 (5-104-0.5)
Medical Ethics
Discusses and explores important issues in medical ethics, especially involving physician-patient relationships.

Biochemistry
Chairman and Professor: K.H. Woodside; Professor: E.E. Groseclose; Associate Professors: R.E. Block; E.O. Keith

BCH 5116 (14-0-6)
Medical Biochemistry
Covers biochemical reactions and pathways of normal human health, nutrition from a biochemical viewpoint, the biochemistry of the gastrointestinal, pulmonary, renal, musculoskeletal, endocrine, and other systems.

Family Medicine

Division of Community Medicine
Chairman and Assistant Professor: A. McLean; Professor Emeritus: C.L. Brumback; Professors: F. Lippman, M.J. Morris, S. Zucker; Clinical Professor: M. Morganstine; Clinical Associate Professor: H. H. Mones; Assistant Professor: J. Rose; Instructor: S. Ganes; Clinical Instructor: D. James

Division of Emergency Medicine

Division of Geriatrics
Chairman and Associate Professor: F. Komara; Clinical Assistant Professor: W. Boyd

Division of Osteopathic Manipulative Medicine
Chairman and Professor: A. Snyder; Visiting Professors: S. Blood, J.W. Upledger; Assistant Professors: M. Greenhouse, K. Hotchner, M. Sandhouse

Division of Physical Medicine and Rehabilitation
Chairman and Assistant Professor: R. Tolchin, Assistant Professor: M. Gilbert
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<th>Course Code</th>
<th>Credits</th>
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<td>FMN 5112</td>
<td>0-36-2</td>
<td>Clinical Practicum I</td>
<td>Introduction to history-taking techniques, standard history-taking and recognition of non-verbal cues. Taught by systems.</td>
</tr>
<tr>
<td>FMN 5212</td>
<td>18-0-1</td>
<td>Medical Epidemiology</td>
<td>Introduction to basic concepts of epidemiology and biostatistics as it pertains to public health and disease processes.</td>
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<tr>
<td>FMN 5222</td>
<td>0-36-2</td>
<td>Clinical Practicum II</td>
<td>Introduction to the skills of performing a complete history and physical examination. Emphasizes individual supervision.</td>
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<tr>
<td>FMN 6112</td>
<td>0-36-2</td>
<td>Clinical Correlation I</td>
<td>Students apply problem-solving skills to case studies and medical simulation, using knowledge gained from didactic and clinical courses.</td>
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<tr>
<td>FMN 6222</td>
<td>0-36-2</td>
<td>Clinical Correlation II</td>
<td>A continuation of Clinical Correlation I, using problem-solving skills through small-group discussions of clinical cases, directed by family physicians.</td>
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<tr>
<td>FMN 6314</td>
<td>0-36-4</td>
<td>Clinical Practicum III</td>
<td>Students perform focused, problem-based patient evaluation, with review of history and physical examination techniques. Teaches use of differential diagnoses. Exposes students to clinical procedure skills. Students are assigned hospital histories and physical examinations.</td>
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<tr>
<td>FMN 6424</td>
<td>0-36-4</td>
<td>Clinical Practicum IV</td>
<td>Students apply learned history and physical techniques in preparation for clinical rotations. Training time will be assigned at a College teaching hospital. Stresses patient evaluation.</td>
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<tr>
<td>FMC 6421</td>
<td>18-0-1</td>
<td>Medical Jurisprudence</td>
<td>Seminar and lecture series covering physician-attorney relationships, legal terminology and principles. Emphasizes medical risk management.</td>
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<tr>
<td>FME 5105</td>
<td>8-0-0.5</td>
<td>Basic Life Support</td>
<td>American Heart Association-approved course leading to certification upon successful completion.</td>
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<tr>
<td>FME 6221</td>
<td>0-18-1</td>
<td>Advanced Cardiac Life Support</td>
<td>American Heart Association-approved advanced cardiac life support course taken prior to clinical rotations.</td>
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<tr>
<td>FMR 6205</td>
<td>10-0-0.5</td>
<td>Rural Medicine</td>
<td>Introduces concepts of rural practice, the role of the rural practitioner and problems associated with healthcare delivery in rural and medically underserved areas.</td>
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<tr>
<td>FMG 6105</td>
<td>10-0-0.5</td>
<td>Geriatrics</td>
<td>Review of the normal geriatric patient and pertinent pathological processes. Stresses psychosocial aspects, therapeutics, chronic care management.</td>
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**FMO 5113 (18-36-3)**
**OMM I**
Introduction to general principles and techniques of diagnosis of the axial skeleton and paraspinal regions. Exposes students to basic terminology and examination skills through lecture, demonstration, and hands-on performance.

**FMO 5223 (18-36-3)**
**OMM II**
Covers principles and techniques on a regional basis. Stresses the neurophysiological aspects of muscle dysfunction and pain mechanism. Multiple modalities include counterstrain, myofascial release, high velocity low amplitude, indirect technique, and muscle energy techniques.

**FMO 6113 (18-36-3)**
**OMM III**
Continues the studies of principles and techniques of diagnosis and treatment on a regional basis. Enhances development of the palpatory diagnosis and treatment skills in paraspinal, spinal areas of dysfunction.

**FMO 6423 (18-36-3)**
**OMM IV**
Teaches the integration of musculoskeletal diagnosis, treatment into an Osteopathic approach to systemic diseases, reviews basic concepts in preparation for clinical rotations.

**FMO 8148 (0-960 (Clinic)-48)**
**OMM Fellowship I**
The first of two practica, this rotation introduces the OMM Fellow to the concepts of ongoing ambulatory osteopathic care and offers some limited teaching opportunities.

**FMO 8248 (0-960 (Clinic)-48)**
**OMM Fellowship II**
A continuation of the first practicum, this rotation builds on the Fellows' patient care responsibilities and stresses a more intense teaching load.

**Internal Medicine**

**Division of Cardiovascular Medicine**
**Chairman and Professor:** A.A. Greber; **Visiting Professors:** R. Berger, J. W. Lister; **Associate Professors:** M. Diamond; **Clinical Associate Professors:** J. G. Minkes, C. I. Shulman, D. M. Spiller; **Assistant Professor:** M. Stein; **Clinical Assistant Professors:** M. Kesselman, P. E. Kudelko, M. A. Ravitsky, N. B. Tytler Jr., R. Walsh
Division of Dermatology
Chairman and Associate Professor: H.A. Schwartzberg; Clinical Professor: I. Feldman; Associate Professors: P. Dermer, S.E. Skopit; Clinical Assistant Professor: D. Longwill

Division of Hematology/Oncology
Chairman and Clinical Assistant Professor: B.M. Krein, Associate Professor: J.B. Leslie; Assistant Professors: B. Horowitz, S. Krathen, J. Weisberg; Clinical Assistant Professors: A.E. Hano, J. Policzer, H. Saber

Division of Nephrology
Chairman and Associate Professor: C. Glasser; Clinical Associate Professor: C. Abraira; Assistant Professors: S. Snyder, J. Waterman; Clinical Assistant Professor: G. Waterman

Division of Neurology
Chairman: Vacancy; Professor: L. Jacobson, Clinical Associate Professor: B.J. Cutler, Clinical Assistant Professors: H. Todd, P. Winner; Clinical Instructor: V. Salanga

Division of Pulmonary Medicine
Chairman and Associate Professor: E.B. Bolton, Jr.; Clinical Associate Professor: C. Corrales; Clinical Assistant Professors: L. Barroso, J. Giamimo, D.J. O'Leary

Division of Radiology
Chairman and Professor: D. Finkelstein; Clinical Professor: F. Manlio; Clinical Associate Professors: S. Bakst, B.E. Pyko; Clinical Assistant Professor: C. Wamokaski; Visiting Assistant Professor: M. Finkelstein; Instructor: I.G. Murray; Clinical Instructors: R. Burke, R. Farber

IMA 6805 (10-0-0.5)
Principles of Radiology
Basic concepts of radiology, principles of radiologic imaging needed for applied clinical courses to follow during the semester.

Microbiology
Chairman and Professor: H.E. Laubach; Professor: H. Hada; Associate Professor: D. Burris

MIC 5126 (14-0-6)
Medical Microbiology
Includes Bacteriology, Virology, Parasitology, Mycology, Organisms.

Obstetrics and Gynecology

Pathology
Chairman and Professor: M.A. Khin; Professor Emeritus: D.C. Bergman; Associate Professor: K. Khin; Clinical Associate Professor: L. Lang, III; Clinical Assistant Professors: J. Mones, R. Ziegler, Clinical Instructor: C. Carson
**PTH 6112**  
**Principles of Pathology**  
Introduce students to basic concepts and principles of pathology needed for the applied clinical courses to follow during the semester.

**Pediatrics**  

**Pharmacology**  
Chairman and Assistant Professor: L. Crespo; Assistant Professors: M. D. Hill, A. C. Trinidad

**PCO 6112**  
**Principles of Pharmacology**  
Introduction to basic pharmacological concepts and principles needed for the applied clinical science courses to follow during the semester.

**Physiology**  
Chairman and Associate Professor: S. Taraskevich; Associate Professors: J. Leedham, A. Posner, D. L. Palazzolo

**PHS 5126**  
**Medical Physiology**  
Includes study of general (cell, membrane, muscle) and cardiovascular physiology. Emphasizes renal, gastrointestinal, respiratory, endocrine, reproductive and neurological physiology.

**Surgery**  

**Division of Anesthesiology**  
Chairman and Associate Professor: R. H. Sculthorpe; Clinical Assistant Professor: E. L. Lowery; Instructor: G. J. Arcos; Clinical Instructors: C. Friedman, B. Hindin

**Division of General Surgery**  
Chairman and Associate Professor: E. Wiener; Associate Professor: B. Silverman

**Division of Ophthalmology**  
Chairman and Associate Professor: W. Bizer; Professor Emeritus: E. D. Hersh; Clinical Assistant Professors: R. L. Bentz, C. Berger, R. J. Gulin er, E. R. Leonard, A. L. Rubin, P. Shettle, R. Susi, T. Ward

**Division of Orthopedic Surgery**  
Chairman and Professor: M. Rech; Professors: M. J. Morris, B. B. Swartz; Associate Professor: D. L. Gula; Clinical Assistant Professors: P. Christ, D. Horvath, M. Richman, M. Weiss
Division of 
Otorhinolaryngology
Chairman and Professor: D.J. Duncan; Associate Professors: J.H. Caschette, J. Gottlieb; Assistant Professors: R. Contrucci, H. Sussman; Clinical Assistant Professors: M. Bibliowicz, J. Dickens, D. Harrington, R. Maliner, C. Shapiro

Division of Urology
Chairman and Professor: W.A. Steinsnyder; Professor: H.R. Steinsnyder; Clinical Associate Professors: R.A. Hoffberger, R. Rappel; Clinical Assistant Professors: A. Albers, R.B. Antosek, K. Ciancolo, M. Weinstein

Interdisciplinary Courses
IDC 5105 (10-0-0.5)
Clinical Concepts
An introduction to the different disciplines in medicine, principles of clinical practice and critical thinking as applied to the medical decision-making process.

IDC 5205 (10-0-0.5)
Substance Abuse and Addiction
The student is introduced to problems associated with substance abuse and addiction, and is oriented to medical and community resources available to assist victims.

IDC 5305 (10-0-0.5)
Violence and Abuse
Introduces the problems of domestic violence, child abuse, and the impact of violence on the family. Discusses the role of social services, the legal system and intervention by the physician.

IDC 5505 (10-0-0.5)
Ethnocultural Medicine
Exposes students to skills and insights needed to deal with problems of providing health care to minorities. Stresses need for effective communication, understanding of cultural factors and how they impact on patient compliance and the doctor/patient relationship.

IDC 6905 (10-0-0.5)
Pre-Clerkship Seminar
Series of presentations at the end of the sophomore year reinforce knowledge and skills useful for clinical rotations. Topics include: risk management, medical record documentation, understanding HIV infection, OSHA regulations, physician/patient relationships, standard health maintenance care of an adult and child, hospital protocols, literature research, ethnocultural sensitivity, rural medicine.

IDC 8821 (20-0-1)
Senior Seminar
Series of presentations prior to graduation to reinforce knowledge and skills useful for the internship experience ahead. Topics include: medical economics, risk management, on-call medication, physician impairment, professional liability, medical licensure, emergency management, advanced cardiac life support.

Interdisciplinary Preceptorships
The Interdisciplinary Generalist Preceptorships introduce students to primary care clinical settings (specifically, managed care) early in their medical education. This physician mentor program emphasizes Family Medicine, General Internal Medicine, and General Pediatrics. In year one, students rotate, on a weekly basis, with primary care physicians. In year two, they continue these experiences and also rotate through managed care headquarters.
CoLLEGE OF OSTEOPATHIC MEDICINE

IDC 5212 (40-0-2)  
IGC Preceptorship I

IDC 5422 (40-0-2)  
IGC Preceptorship II

IDC 6514 (80-0-4)  
IGC Preceptorship III

IDC 6624 (80-0-4)  
IGC Preceptorship IV

Interdisciplinary Systems

The Systems component of the Interdisciplinary Curriculum involves participation by the Departments of Internal Medicine, Pediatrics, Obstetrics and Gynecology, Behavioral Medicine, Surgery and Basic Sciences. Traditional classroom lectures are given in integrated fashion so that clinical aspects, pathophysiology of diseases, disorders of each system are addressed. Pharmacology and pathology are integrated extensively in all the systems.

IDC 6113 (40-0-3)  
Hematopoietic and Lymphoreticular System

Covers the diagnosis, management of hematopoietic, lymphoreticular system diseases, disorders; hemostasis, platelets, white blood cells, and myeloproliferative, lymphoproliferative, immunoproliferative and oncologic disorders.

IDC 6123 (60-0-3)  
Renal/Urinary System

Covers renal pathophysiology; glomerular, tubulointerstitial diseases, renal failure, congenital disorders, metabolic disorders, neoplasms of the renal/urinary system, urology.

IDC 6215 (80-0-5)  
Cardiovascular System

Covers pathophysiology, diagnosis, management of common cardiovascular disorders. Teaches electrocardiography, includes training in the use of "Harvey."

IDC 6223 (80-0-3)  
Reproductive System

Covers pathophysiology, diagnosis, treatment of common gynecologic disorders, obstetrics. Special issues are discussed, such as domestic violence.

IDC 6314 (80-0-4)  
Respiratory System

Covers pathophysiology, diagnosis, management of common respiratory disorders, infectious disorders, neoplasms of the respiratory system. Discusses ventilatory functions, management of respiratory failure.

IDC 6324 (80-0-4)  
Nervous System

Covers pathology of the nervous system, neurologic dysfunctions, pathophysiologic mechanisms of neurologic diseases, pharmacotherapeutics. Addresses rehabilitative aspects of nervous system dysfunctions. Covers application of Osteopathic Manipulative Medicine to nervous system disorders.

IDC 6412 (60-0-2)  
Endocrine System

Covers pathophysiology, diagnosis, management of hormonal disorders, diseases of the pituitary, thyroid, adrenals, pancreas, parathyroid; neoplasms, infectious diseases affecting the endocrine system.

IDC 6423 (60-0-3)  
Musculoskeletal System

Covers diseases, disorders of musculoskeletal system. Addresses pathophysiology, diagnosis, management of rheumatologic disorders, orthopedics, aspects of physical medicine and rehabilitation. Osteopathic manipulative medicine is applied to this system.
Gastrointestinal System
Covers pathophysiology, diagnosis, management of gastrointestinal diseases, disorders; infectious, neoplastic diseases affecting the gastrointestinal system.

IDC 6612 (40-0-2)
Integumentary System
Covers clinical aspects of skin diseases, infections of the skin, skin pathology, pediatric dermatoses, neoplastic disorders of the skin, burn management, plastic surgery, skin disorders, cutaneous manifestations of systemic disorders, diseases of the breast.

IDC 6705 (8-0-0.5)
Alternative Medicine
An introduction to the concepts and practices of alternative and complementary medicine.

Affiliated Hospitals

Broward General Medical Center
Ft. Lauderdale
Glenn R. Singer, M.D.
Associate Medical Education Director
Chief Executive Officer: Wil Trower

Columbia Hospital West Palm Beach
West Palm Beach
Chief Executive Officer: Michael Fencel

Coral Springs Medical Center
Coral Springs
Daniel Hurwitz, M.D.
Associate Medical Education Director

Florida Hospital East Orlando
Orlando
DME: Glenn Bigsby, D.O.
President: Sandra Randolf, M.B.A.

Florida Medical Center South
Plantation
Glenn Moran, D.O., D.M.E.
Chief Executive Officer: Gregory Boyer

Glades General Hospital
Belle Glade
Chief Executive Officer: Neil Whipkey

Gulf Coast Hospital
Ft. Myers
President: Denny W. Powell

Imperial Point Medical Center
Ft. Lauderdale
Robert S. Meigs, M.D.
Associate Medical Education Director

Jackson Memorial Hospital
Miami
Kathleen Schrank, M.D.
Director of Emergency Care Center
Chief Executive Officer: Ira C. Clark

JFK Medical Center
Atlantis
Chief Executive Officer: Richard Cascio

Memorial Regional Hospital
Hollywood
Bruce Rappaport, M.D.
Director of Medical Affairs

Miami Children's Hospital
Miami
Charles Wharton, M.D., D.M.E.
Chief of Staff: Ramon Rodriguez-Torres, M.D.
Executive Officer: William A. McDonald

Miami Heart Institute
Miami
President/CEO: Reuv en Savitz

Mount Sinai Medical Center
Miami Beach
Fred Meir Justiniani, M.D., D.M.E.
President/Chief Executive Officer:
Fred Hurt, M.H.A.

North Broward Medical Center
Pompano Beach
H. Murray Todd, M.D.
Associate Medical Education Director
Recognizing the need for family medicine physicians, Nova Southeastern University College of Osteopathic Medicine has established a seven-year track for entering students. This ensures an uninterrupted education for students committed to family medicine and eliminates the need for repeated applications and competition for internships and residencies.

Students who successfully complete the first four years of this track, the medical school years, will be guaranteed appointment to an internship program in a Nova Southeastern University-affiliated institution, and then to a Nova Southeastern University Family Medicine Residency for two years. The University allows students to choose which Nova Southeastern University-affiliated programs they desire, when available. The student, by accepting admission into this track, agrees to these appointments. During the four years of medical school, regular tuition will be charged. During internship and residency, compensation shall be equal to comparable salaries paid at the time. Approximately 40 slots in the entering class will be set aside for the SYFAM track. During the medical school years, students on this track will be organized into a special group and receive benefits such as special education programs, subsidized attendance at state and national meetings of the American College of Osteopathic Family Physicians and similar activities. A qualified family medicine physician will be appointed advisor to the group.

Area Health Education Center (AHEC)

The mission of NSU's Area Health Education Center’s (AHEC) Program is to improve access to and quality of primary health care service to medically underserved communities by linking the resources of academic health centers with community-based health care providers. Nova Southeastern University’s College of Osteopathic Medicine, the first medical school in the state of Florida to develop an AHEC Program, officially began its program in 1985. Since its inception, the program has worked to develop...
effective and comprehensive training programs that improve access to quality primary health care for Florida's medically underserved rural and inner-city urban communities.

Our nationally recognized program now serves underserved communities and populations throughout a 20,000 square mile region of South and Central Florida. Our first AHEC Center, the Everglades AHEC, reaches underserved areas within a ten-county region extending from the inner city of northern Dade County to rural communities around Lake Okeechobee. Based on the success of the Everglades AHEC, the University was awarded additional funding to develop the Central Florida AHEC, which now serves nine counties and extends from Lake Okeechobee to above Orlando.

By including training programs in community settings, we expose students to the challenges, rewards and practice opportunities related to working in medically underserved areas. Students have opportunities to work together while learning.

Rural Medicine Program

The Rural Medicine training program at the College of Osteopathic Medicine was named one of the nation's 10 most innovative in a Congressional study by the National Rural Health Association - one of two osteopathic medical schools so rated. This is with good reason.

The College of Osteopathic Medicine has had since its inception the mission of training its students in rural medicine and improving medical care to rural communities. In addition to 10 hours of classroom instruction, a required three-month clinical rotation in rural medicine provides all Nova Southeastern University College of Osteopathic Medicine students with basic insight into the special health care needs of the people living in underserved communities. The majority of the affiliated community health care centers treat migrant farm workers and indigent patients.

The rural medicine program provides a unique, enriching experience that cannot be taught in the classroom or by textbook. Nova Southeastern University's academic officers believe that exposure to rural practice better prepares and motivates young health professionals to practice in rural underserved areas.

Dual Admission Program

\[ \text{Undergraduate/D.O. Program} \]

Nova Southeastern University Health Professions Division has established a dual admission program with the Nova Southeastern University Farquhar Center for Undergraduate Studies for a select number of highly motivated, qualified students interested in pursuing both undergraduate and professional studies in osteopathic medicine. This allows candidates to receive their doctoral degrees in osteopathic medicine in a seven-year or eight-year period.

Candidates must maintain a specified G.P.A. and S.A.T. score to be eligible for the Dual Admission Program, and achieve acceptable scores on the Medical College Admissions Test (MCAT).

In the 7-year program, students will be awarded a B.S. degree from the Farquhar Center upon the successful completion of the first year of medical education at Nova Southeastern University College of Osteopathic Medicine.

Students in both programs will receive the D.O. (Doctor of Osteopathic Medicine) degree after four years of training at Nova Southeastern University College of Osteopathic Medicine.

For complete information and requirements, contact the Office of Admissions, Farquhar Center for Undergraduate Studies, Nova Southeastern University, 3301 College Avenue, Ft. Lauderdale, Florida 33314.
Combined Degree Program
D.O./M.P.H. Program
Osteopathic medical students already enrolled in the College, who are in good standing, may apply for the combined D.O./M.P.H. Program. The Master of Public Health Program has an emphasis on general public health, which when awarded together with the D.O. degree, will open doors of opportunity to students in the areas of biostatistics, epidemiology, health services administration, and behavioral, environmental and occupational health. Course work is designed to be feasibly completed in the recommended two-year timeframe. However, students may choose to take longer than two years by enrolling in fewer public health courses during semesters. Classes are offered in the evening hours and on weekends.

For more detailed information on this program, please see "Master of Public Health" in the College of Allied Health section of this catalog.

Student Organizations
Student Council
Student Council is the official voice of all students. The organization is open to all students, and welcomes proposals and participation from the entire student body. Its responsibilities include collecting and expressing student opinion, dispensing funds for student activities, acting as liaison for the student body, promoting osteopathic medicine, supporting club and class activities, and working to improve the quality of life for students at the College of Osteopathic Medicine.

The Student Council President is the College of Osteopathic Medicine's representative on the Council of Student Council Presidents (CSCP), an organization composed of student government presidents from each of the 17 osteopathic medical schools in the U.S.

Many student organizations addressing various professional and practice-related interests are also open for student membership, including:

- National Osteopathic Women Physicians Association
- Phi Sigma Gamma
- Sports Medicine Club
- Student Associates Auxiliary
- Student Osteopathic Medical Association
- The Undergraduate American Academy of Osteopathy
- Undergraduate Chapter, Student National Medical Association
- American Medical Student Association
Mission Statement

The primary mission the College of Pharmacy is to serve the pharmaceutical health care needs of Florida by educating pharmacists to be able to provide contemporary as well as innovative pharmacy services. The College will offer dynamic curricula which include a broad base of didactic and experiential components, enabling the graduate to develop practice skills to function effectively and efficiently in a changing and challenging health care environment. Consistent with this mission, contribution to the body of knowledge through scholarly activity, and service as appropriate are also important goals.
Administration

William D. Hardigan, B.S., M.S., Ph.D., Dean
Paul Magalain, B.S. Pharm., Associate Dean Emeritus
Dean L. Arneson, Pharm.D., M.S., Ph.D.,
Assistant Dean for Student Academic Affairs
Carsten Evans, B.S. Pharm., M.S., Ph.D., Assistant Dean for Professional Affairs
Andres Malave, B.S. Pharm., M.S., Ph.D., Assistant Dean for
Pharmaceutical Sciences
Christopher Rodowskas, Jr., B.S. Pharm., M.S., Ph.D.,
Assistant Dean for Pharmacy Administration
Scott A. Swigart, B.S., Pharm.D., Assistant Dean for Pharmacy Practice

Pharmacy

With the nation struggling to deliver high quality, affordable health care, there has come a greater appreciation of the importance of pharmacists as members of today's health care team. The pharmacist's role has rapidly expanded from drug compounding and distribution to a more patient-oriented one, and the College of Pharmacy is training its students in procedures vital to meeting the challenges facing the profession and important in reducing health care costs.

The College of Pharmacy admitted its first class in 1987 to become the only College of Pharmacy in South Florida. Since then, it has graduated 582 professionals with either Bachelor of Science in Pharmacy or Doctor of Pharmacy (Pharm.D.) degrees. Because of the profession's demand for greater clinical specialization, the College has discontinued its baccalaureate degree program.

Pharmacists are experts on drugs and therapeutic goals, their uses, formulation, adverse effects and potential for drug interactions. However, pharmacists are not just drug-oriented, but people-oriented. They consider both the medication and the patient to ensure that the patient has the right drug, in the right amount, for the right length of time, and with a minimum of adverse effects. The result is improved health care.

Most pharmacists practice in patient-oriented settings: in community pharmacies, hospitals, extended care facilities or public health clinics. In addition, pharmacists are employed by the pharmaceutical industry in research and development, in manufacturing, or as medical service representatives. They work in academic institutions, government, health maintenance organizations, and home health care programs.

It is because of these challenges and opportunities that pharmacy has assumed a wider role and become an increasingly rewarding profession involving patient counseling, compliance, and education.
Council of Overseers

Jay M. Tischenkel, B.S. Pharm.
Chairman
Beech Mountain, North Carolina
Retired President
Continental Drug Company

Paul A. Eger, B.S. Pharm.
Miami, Florida
President
Medical Services Consortium

Rosebud L. Foster, Ph.D.
North Miami, Florida
AHEC Project Manager
Florida International University

Constantine J. Lopilato, Ph.G.
Hollywood, Florida
President, Town Drug

David J. Osterberger, Pharm.D.
Miami, Florida
Director, Pharmacy Services
Deering Hospital

Philip Sacks, B.S. Pharm.
Ft. Lauderdale, Florida
Past President
American Pharmaceutical Association

John Stadnik, B.S. Pharm.
Miami Springs, Florida
President, Miami Springs Pharmacy

Joel M. Wilentz, B.S. Pharm., M.D.
Hallandale, Florida
Pharmacist and Dermatologist

Accreditation

The American Council on Pharmaceutical Education has accredited the Doctor of Pharmacy program of the College of Pharmacy, Nova Southeastern University. The College of Pharmacy is a member of the American Association of Colleges of Pharmacy. (The accredited B.S. degree in Pharmacy is available only to students matriculating prior to 1994.)

Facilities

The College of Pharmacy is headquartered on the third floor of the new Health Professions Division Administration Building. The Pharmacy Practice, Pharmaceutics, Pharmacokinetics, and Pharmacy Administration laboratories are located on the third floor of the Laboratory Building, near the Health Professions Division's research laboratories. Clinical clerkship and externship sites are located throughout central and south Florida.

The College of Pharmacy's Drug Information Center (D.I.C.), located on the first floor of the Library and Laboratories Building, was developed to meet a pressing demand among health care professionals for accurate, up-to-date information on medications, their usages, laws, adverse effects, incompatibilities, and potential for interactions.

Requirements for Admission

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

Pre-Pharmacy Studies

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:
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, 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

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

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

or

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

It is the applicant’s responsibility to have this course work evaluated, and a complete evaluation must be sent to the Office of Admissions.
Application Procedure
Full-time Professional Program

Inquiries for admission should be addressed to the Office of Admissions, College of Pharmacy, 3200 South University Drive, Ft. Lauderdale, Florida 33328, telephone (954) 723-1101 or (800) 356-0026.

Candidates for admission must submit:

1. A completed application form along with a $50 non-refundable application fee
2. A letter of evaluation from the undergraduate 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 Pharmacy College Admission Test (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.

THE COLLEGE REQUESTS THAT ALL APPLICATION DOCUMENTS BE RECEIVED BY MARCH 15 IN ORDER FOR THE APPLICANT TO BE CONSIDERED FOR ADMISSION IN THE FALL OF THE SAME YEAR. NOTICE OF ACCEPTANCE OR OTHER ACTION BY THE COMMITTEE ON ADMISSIONS WILL BE ON A "ROLLING" OR PERIODIC SCHEDULE. EARLY COMPLETION OF THE APPLICATION IS, THEREFORE, IN THE STUDENT'S BEST INTEREST.

Upon receipt of the completed application and required credentials, the Committee on Admissions will select those applicants eligible to be interviewed. Those selected will be notified in writing of the time and place. All applicants who are eventually chosen by the College must be interviewed, but an invitation to appear for an interview should not be construed by the applicant as evidence of final acceptance.

Since only one sequence of the required professional courses is offered each year, admission of new students to the College is limited to the fall semester.

Tuition and Fees
Full Time Professional Program

The Board of Trustees has established the following tuition and fees, which are subject to change at any time at the Board's discretion:

1. Tuition and fees: $12,000 for Florida residents for the 1997-98 academic year and $15,600 for out-of-state residents. 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 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 case of withdrawal. It is payable within two weeks of the applicant's acceptance.
3. Deposit: $400, due March 15, under the same terms as the Acceptance Fee.
4. Pre-registration Fee: $500, due May 15, under the same terms as the Acceptance Fee.
5. Student Activities Fee: $100, payable at each fall registration.

The first semester’s tuition and fees, less the $1,000 previously paid, are due on or before Registration Day. Tuition for the subsequent semester is due on or before Registration Day for that semester. Students will not be admitted until their financial obligations have been met.

Dual Admissions Program Undergraduate/Pharm.D. Program

Nova Southeastern University Health Professions Division has established a dual admissions program with the Nova Southeastern University Farquhar Center for Undergraduate Studies for a select number of highly-motivated, qualified students interested in pursuing both an undergraduate education and professional studies in Pharmacy. This allows students to receive their undergraduate Bachelor of Science degree and a Doctor of Pharmacy degree in a six-year period.

Candidates must maintain a specified grade point average and achieve acceptable scores on the Pharmacy College Admission Test (PCAT). Students will spend two years in the Undergraduate School and then will be awarded a B.S. degree from the Farquhar Center upon completion of the second year of education at Nova Southeastern University College of Pharmacy. Students will receive the Pharm.D. (Doctor of Pharmacy) degree after four years of training at Nova Southeastern University College of Pharmacy.

For complete information and requirements, contact the Office of Admissions, Farquhar Center for Undergraduate Studies, Nova Southeastern University, 3301 College Avenue, Ft. Lauderdale, Florida 33314.

Financial Aid

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 pharmacy education. These financial assistance programs are described in a separate University publication: Financial Freedom.

Transfer Credits

A student who has attended another college or university must ask the Registrar of that institution and all other institutions attended to send official transcripts of credit to the Office of Admissions, Nova Southeastern University College of Pharmacy. A student who has attended another college of pharmacy and wishes to pursue a pharmacy degree must also ask the dean of the college of pharmacy attended to send a letter of recommendation directly to the Dean, College of Pharmacy, Nova Southeastern University.

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 NSU.
**Suspension/Dismissal**

Failure to complete successfully any course upon repeating it will result in automatic suspension, and may lead to dismissal. This will apply regardless of the student's GPA.

Failure to complete successfully any Externship or Clerkship rotation upon repeating it will result in automatic suspension and may lead to dismissal. This will apply regardless of the student's GPA.

Students having failed two or more courses, Externship or Clerkship rotation, regardless of remediation status, will result in automatic suspension and may lead to dismissal.

Any student falling in the above categories may be required to repeat courses (at his/her expense), at the discretion of the Dean's office. Unprofessional conduct will result in dismissal. Any student with a grade point average below 70% for two semesters will be suspended and may be dismissed.

**Re-Admission Policy**

Students may re-apply for admission if a reasonable time has elapsed since the dismissal. Re-admission will be at the discretion of the Dean. The applicant is required to present adequate evidence that the conditions and/or factors which caused the prior poor academic performance have changed significantly so that there is a reasonable expectation the applicant can perform satisfactorily if permitted to resume his/her college study. It is noted that the student's prior academic record will remain part of his/her overall academic record, but none of the prior grades will be calculated in the new GPA.

A student formerly enrolled in the College of Pharmacy must request re-admission through a letter to the Dean of the College of Pharmacy. Additional consideration of the re-entering student's academic standing will be based on all courses attempted in the College of Pharmacy. Other conditions may apply to the re-admission process: (1) If a student seeking re-admission has attended another college or university since leaving, an official transcript from that institution must be submitted as part of the re-admission request; (2) If a student returns to the College of Pharmacy, normally the requirements of the curriculum which are in force at the time of the return must be met, not the requirements which were in effect when originally admitted.

The College reserves the right, and the student, by his/her act of matriculation, concedes to the college the right to require withdrawal at any time the College deems it necessary to safeguard its standards of scholarship, professional behavior and compliance with regulations or for such other reasons as are deemed appropriate.

**Graduation Requirements**

To receive a degree, every student must fulfill the following requirements:

1. Be of good moral character
2. Have satisfactorily passed all required examinations
3. Complete a minimum of 132 semester hours of course work in the College of Pharmacy within seven years
4. Have satisfactorily completed the assigned curriculum requirements for the degree, including all assignments, with a grade point average of 2.0 or a numerical average of 70 or above
5. Have satisfactorily met all financial and library obligations
6. If transferring, the student must complete a minimum of 16 credit hours of didactic course work in addition to five clerkships
7. Attend in person the rehearsal and commencement program at which the degree is awarded
Internship

Internship is a requirement for licensure but not for graduation from the College of Pharmacy. Internship must be completed within the guidelines of the Florida Board of Pharmacy as set forth in the Rule, Chapter 61F10, or the Board of Pharmacy in the state in which the student plans to fulfill the requirements for internship. The College's Director of Experiential Programs provides assistance and guidance to students entering internships.

The Bachelor of Science Degree

Effective with the incoming class which began on August 14, 1995, the Pharm.D. degree will be the only pharmacy degree offered. The B.S. degree in Pharmacy will be available only to those students who matriculated prior to 1995.

Students who matriculated prior to the August 14, 1995, entering class may continue to pursue the B.S. degree in Pharmacy as a choice. The curriculum as it appears in the 1994-95 catalog is to be followed.

The Pharm. D. Degree

Course of Study—Full time Professional Program

First Year

The first year of the professional curriculum provides a foundation in the basic sciences. For efficient learning, anatomy, pathology and physiology are integrated into one course. Similarly, medicinal chemistry and pharmacology have been combined into one course entitled Pharmacodynamics. Students begin Physical Pharmacy at this time by investigating certain principles which continue into pharmacokinetics. Pharmacy Administration provides insight into the business and human relations of pharmacy practice. Dean's Hour provides for the professionalization of the students.

Second Year

The second year of the professional curriculum 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 psychosocial aspects of health care and pharmacy.

Third Year

In the third year, students pursuing the Pharm.D. degree hone their analytical skills. Courses in statistics and experimental design, drug literature evaluation and the interpretation of biopharmaceutical 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 first 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.

Note: The externships and clerkships are full-time commitments by the student (a minimum of 40 hours per week). Students are assigned to approve off-campus facilities. Externships and clerkships may be taken in any sequence. Students may not enroll in clerkships until all didactic course work has been satisfactorily completed.
## CURRICULUM OUTLINE

### First Year
**First Semester**
- Pharmacy Calculations ......................... 1
- Anatomy & Pathophysiology I .................. 5
- Physical Pharmacy ................................ 3
- Biochemistry ..................................... 4
- Pharmacodynamics I ............................... 3
- Pharmacy Administration I ..................... 2
- Dean's Hour I ..................................... 0

**Second Semester**
- Anatomy & Pathophysiology II ................. 5
- Pharmacokinetics ................................ 4
- Pharmacodynamics II ............................. 5
- Microbiology ...................................... 3
- Pharmacy Administration II .................... 2
- Dean's Hour II ..................................... 0

**Semester Hrs.** .................................. 18

### Second Year
**First Semester**
- Therapeutics I .................................... 4
- Pharmacodynamics III ............................. 4
- Pharmaceutics ..................................... 3
- General Education I .............................. 3
- Pharmacy Law ...................................... 3
- Electives - Pharm. Sciences ..................... 1

**Second Semester**
- Therapeutics II .................................. 4
- Pharmacodynamics IV ............................. 3
- Physical Assessment .............................. 2
- Prescription Practice ............................. 3
- General Education II .............................. 3
- Pharmaceutical Marketing ....................... 2

**Semester Hrs.** .................................. 18

### Third Year
**First Semester**
- Experimental Design & Statistics .............. 4
- Drug Literature Evaluation ...................... 2
- Clinical Pharmacokinetics and ................. 4
- Interpretation of Laboratory Data ............
- Advanced Pharmacotherapeutics ............... 6
- Electives - Pharm. Sciences ..................... 2

**Second Semester**
- Externship I - Community ....................... 7
- Externship II - Health Centers ............... 7

**Semester Hrs.** .................................. 18

### Fourth Year
**First Semester**
- Clerkship II (Internal Medicine) ............... 3.5
- Clerkship II (Ambulatory Care) ................. 3.5
- Clerkship II (Geriatrics) ......................... 3.5
- Clerkship II (Drug Information) ............... 3.5

**Second Semester**
- Clerkship III (elective) ......................... 3.5
- Clerkship III (elective) ......................... 3.5
- Clerkship III (elective) ......................... 3.5
- Clerkship III (elective) ......................... 3.5

**Semester Hrs.** .................................. 14
The curriculum is designed so that knowledge gained in one semester becomes the foundation for material covered in the subsequent semesters. Therefore, when students fail to complete successfully the course work specified for one semester, it will impede their ability to take courses in future semesters. This can lead to a delay of one year in graduation.

The Postgraduate Doctor of Pharmacy Program

The College of Pharmacy offers a program for baccalaureate-level pharmacists seeking a Pharm.D. degree. This approach has distinct advantages over many external degree programs. Courses are taught by highly qualified faculty. Students have access to the Health Professions Division library, computers, and other learning resources.

The program educates students to achieve the same outcomes as the entry-level Pharm.D. program, and meets the needs of working pharmacists. Didactic courses are scheduled in the evening at Ft. Lauderdale, and by compressed interactive video at Ft. Myers, Orlando, Sarasota, Tampa, and West Palm Beach, Florida. Students vary course loads according to their work schedules.

Clinical clerkship requirements are flexible whenever possible. Students with significant clinical work experience may apply for credit toward some of the required clinical clerkship rotations.

A fully committed part-time student would take two courses a semester. At this rate, the didactic portion of the curriculum would be completed in two years. The slowest rate would be one course a semester. At this rate, it would take four years to complete the didactic portion of the curriculum.

Students must be prepared to complete clinical rotations which have direct patient contact, such as internal medicine, on a full-time basis. The four-week rotations follow the didactic course work and need not be taken in succession. However, all courses must be completed within seven years, and all didactic courses within five years of the initiation of course work. At least 16 semester hours of didactic course work and five clerkships must be completed at NSU College of Pharmacy, regardless of the number of hours which may be transferred from another Pharm.D. program.

Tuition and Fees

The Board of Trustees has established the following tuition and fees, which are subject to change at any time at the Board’s discretion:

1. Tuition: $350 per semester hour for 1997-98.
2. Acceptance Fee: $100. This fee is required to reserve the accepted applicant’s place in the class. This advance payment will be deducted from the tuition payment due on Registration Day, but it is not refundable in case of withdrawal. It is payable within two weeks of the applicant’s acceptance.
3. Pre-registration Fee: $150, due within 30 days of the applicant’s acceptance, under the same terms as the Acceptance Fee.

The first session’s tuition and fees, less the $250 previously paid, are due on or before Registration Day. Tuition for each subsequent didactic session is due on or before registration day of that session. Students will not be admitted until their financial obligations have been met.

Application Procedure

Inquiries for admission should be addressed to the Office of Admissions, College of Pharmacy, 3200 South University Drive, Ft. Lauderdale, Florida 33328, telephone (954) 723-1101 or (800) 356-0026.
## CURRICULUM OUTLINE

### First Year

#### First Semester
- **Pharmacy Calculations** ........................................ 1
- **Anatomy & Pathophysiology I** ................................. 5
- **Physical Pharmacy** ............................................... 3
- **Biochemistry** ..................................................... 4
- **Pharmacodynamics I** ............................................ 3
- **Pharmacy Administration I** .................................... 2
- **Dean's Hour I** .................................................... 0
- **Semester Hrs.** ................................................... 18

#### Second Semester
- **Anatomy & Pathophysiology II** ............................... 5
- **Pharmacokinetics** ................................................ 4
- **Pharmacodynamics II** ............................................ 5
- **Microbiology** ..................................................... 3
- **Pharmacy Administration II** ................................... 2
- **Dean's Hour II** ................................................... 0
- **Semester Hrs.** .................................................... 19

### Second Year

#### First Semester
- **Therapeutics I** ..................................................... 4
- **Pharmacodynamics III** .......................................... 4
- **Pharmaceutics** .................................................... 3
- **General Education I** ............................................ 3
- **Pharmacy Law** ..................................................... 3
- **Electives - Pharm. Sciences** ................................... 1
- **Semester Hrs.** .................................................... 18

#### Second Semester
- **Therapeutics II** .................................................. 4
- **Pharmacodynamics IV** .......................................... 3
- **Physical Assessment** ............................................. 2
- **Prescription Practice** ........................................... 3
- **General Education II** .......................................... 3
- **Pharmaceutical Marketing** ..................................... 2
- **Semester Hrs.** .................................................... 17

### Third Year

#### First Semester
- **Experimental Design & Statistics** ............................ 4
- **Drug Literature Evaluation** ................................... 2
- **Clinical Pharmacokinetics and Interpretation of Laboratory Data** ........................................ 4
- **Advanced Pharmacotherapeutics** .............................. 6
- **Electives - Pharm. Sciences** .................................. 2
- **Semester Hrs.** .................................................... 18

#### Second Semester
- **Externship I - Community** .................................... 7
- **Externship II - Health Centers** .............................. 7
- **Semester Hrs.** .................................................... 14

### Fourth Year

#### First Semester
- **Clerkship II (Internal Medicine)** ............................ 3.5
- **Clerkship II (Ambulatory Care)** .............................. 3.5
- **Clerkship II (Geriatrics)** ...................................... 3.5
- **Clerkship II (Drug Information)** .............................. 3.5
- **Semester Hrs.** .................................................... 14

#### Second Semester
- **Clerkship III (elective)** ....................................... 3.5
- **Clerkship III (elective)** ....................................... 3.5
- **Clerkship III (elective)** ....................................... 3.5
- **Clerkship III (elective)** ....................................... 3.5
- **Semester Hrs.** .................................................... 14

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Candidates for admission must submit:

1. A completed application form along with a $60 non-refundable application fee. Deadline for fall semester is July 15. Deadline for winter semester is December 1.
2. Completed college transcripts from all undergraduate and graduate institutions attended, sent directly to the Office of Admissions, College of Pharmacy, from the Registrar's Office at each institution attended.

Curriculum

Typically, the first year is spent studying pathophysiology, experimental design, and clinical pharmacokinetics. The second year is devoted to improving the pharmacist's analytical skills, beginning with a course on advanced therapeutics as well as a course on physical assessment. The second year concludes with a course on drug literature evaluation. Emphasis of all courses is on case studies and problem solving.

Upon the completion of these twenty-five hours of course work, the student is prepared to pursue the clinical clerkship portion of the curriculum. This is the equivalent of one academic year for those students who have had little, if any, clinical experience. Students possessing considerable clinical experience may apply for partial clerkship credit; however, it shall not exceed three (3) clerkship rotations of life experiences. To assess life experience, a non-refundable fee of $500 will be charged. Students receiving credit for life experiences will not pay full tuition for the clinical clerkship and a portion of the clerkship therefore may be replaced. However, a minimum tuition of $5,000 will be charged for clerkships regardless of the amount of life experiences credits granted.

Licensure as a Pharmacist or Intern in Florida is required for clerkship rotations.

Distance Learning

The College of Pharmacy offers courses for baccalaureate-level pharmacists seeking a Doctor of Pharmacy (Pharm.D.) degree in Ft. Myers, Orlando, Sarasota, Tampa, and West Palm Beach, Florida. This approach has distinct advantages over other degree programs because of the flexibility of scheduling at the location. Courses are taught in person via Interactive Video by campus-based faculty. Site coordinators provide assistance also, and communication between sites is maintained.

SUGGESTED CURRICULUM OUTLINE

First Year

First Semester
Advanced Pathophysiology I .................. 3
Experimental Design & Statistics ........... 4

Semester Hrs. ................................ 7

Second Semester
Advanced Pathophysiology II ................ 3
Clinical Pharmacokinetics & Interpretation of Laboratory Data ...................... 4

Semester Hrs. ............................... 7

Second Year

First Semester
Advanced Therapeutics I .................... 3
Physical Assessment ......................... 2

Semester Hrs. ............................... 6

Second Semester
Advanced Therapeutics II ................... 4
Drug Literature Evaluation ................... 2

Semester Hrs. ............................... 6
### Third Year

#### First Semester
- Clerkship II (Internal Medicine) .......... 3.5
- Clerkship II (Ambulatory Care) .......... 3.5
- Clerkship II (Geriatrics) .................. 3.5
- Clerkship II (Drug Information) .......... 3.5

**Semester Hrs.** .................................. 14

#### Clerkships
Nova Southeastern University College of Pharmacy provides innovative practice experiences to its students. Off-campus pharmacy practices provide involved experiences in the clerkship. The majority of affiliated practice sites are based in the South Florida area and several practice sites are located in the Tampa Bay area.

Hospitals, community and chain pharmacies, plus nursing home and other specialty practices, provide students opportunities to interact with patients and health care providers. The emphasis is on the application of didactic knowledge and skills in a non-laboratory, patient care setting under the supervision of College clinical faculty.

### College of Pharmacy Courses

*(Note: Listed to the right of each entry are lecture clock hours, lab clock hours, and semester hours.)*

#### Biochemistry

**Chairman & Professor:** K.H. Woodside; **Professor:** E.E. Grosedose; **Associate Professors:** R.E. Block, E.O. Keith

**BCH 5200**  
*(64-0-4)*  
*Biochemistry*  
Covers the structures, functions, metabolism of lipids, proteins, carbohydrates, nucleic acids; coagulation, muscle, connective tissue, cancer, digestion and absorption, nutrition, and endocrinology. Includes pharmaceutical application of material.

#### Second Semester
- Clerkship III (elective) .................. 3.5
- Clerkship III (elective) .................. 3.5
- Clerkship III (elective) .................. 3.5
- Clerkship III (elective) .................. 3.5

**Semester Hrs.** .................................. 14

#### Microbiology

**Chairman & Professor:** H.E. Laubach; **Professor:** H.H. Hada; **Associate Professor:** D.Burris

**MIC 5200**  
*(48-0-3)*  
*Microbiology*  
Covers the underlying nature of infectious microorganisms. Emphasizes cause, prevention and control of infectious diseases; immunology; mycology; parasitology; bacteriology; virology. Laboratory exercises identify microorganisms, antibiotic testing.

#### Pharmacy Administration

**Chairman and Professor:** C.A. Rodowskas; **Professors:** M.S. Carvajal, E.S. Jaffrey, W.D. Hardigan; **Associate Professors:** D.L. Arneson, D.E. Shaw; **Associate Professor Emeritus:** P. Magalian; **Assistant Professors:** R.Ben-Joseph, P.C. Hardigan, L.L. Lai

**PAD 3000**  
*(16-0-0)*  
*Dean's Hour I*  
Introduction to Pharmacy education and profession.  
**Prerequisite:** P-1 Standing

**PAD 3020**  
*(16-0-0)*  
*Dean's Hour II*  
Continuation of Dean's Hour I

**PAD 3300**  
*(32-0-2)*  
*Pharmacy Administration I*  
Applies business, economic, management principles in community, institutional pharmacy. Students participate in activities of an established organization and in a simulated community pharmacy.
PAD 3320 (32-0-2)
**Pharmacy Administration II**
Continuation of Pharmacy Management I with emphasis on managing an organization.

PAD 4300 (48-0-3)
**General Education I**
Psycho-social aspects of pharmacy with emphasis on communication.

PAD 4320 (48-0-3)
**General Education II**
Continuation of General Education I.
**Prerequisites:** General Education I or permission

PAD 4360 (32-0-2)
**Pharmaceutical Marketing**
Overview of the health care delivery system, specific aspects of pharmaceutical marketing. Emphasizes dealing with general public and the pharmaceutical industry.

PAD 4380 (48-0-3)
**Pharmacy Law**
Federal law, state statutes, rules and regulations affecting pharmacy practice; selected aspects of general laws. Interpretation of laws affecting practice of community and institutional pharmacy.

PAD 5300/7300 (48-16-4)
**Experimental Design and Statistics**
Principles of statistics, experimental design.

**Pharmaceutical Sciences**
**Chairman and Professor:** A. Malavé; **Professor:** R.E. Lindstrom; **Assistant Professors:** S.K. Das, K.S. Estes, R. Finkel, K.S. Flaharty, D.M. Gazze, K.J. Miller, T. Oh, A. Rathinavelu, R.J. Rosengren, C.S. Vattikonda

PPS 3100 (48-0-3)
**Physical Pharmacy**
Theory, application of physiochemical principles to pharmaceutical systems.

PPS 3140 (64-0-4)
**Pharmacokinetics**
Mechanisms, rates of absorption, disposition of drugs. Examines how the fate of drugs in the body is influenced by physiologic, biochemical processes. Discusses principles involved in drug absorption, distribution, metabolism, elimination.

PPS 3160 (16-16-1)
**Pharmacy Calculations**
Study of fundamental mathematical principles employed, problems commonly encountered, in compounding, dispensing pharmaceutical preparations.

PPS 3200 (48-0-3)
**Pharmacodynamics I**
Studies physiochemical properties of drugs, principles of drug action, disposition, metabolism, analysis. Applies principles of Organic Chemistry to understanding drug action at molecular levels. Emphasizes determinants of drug absorption, distribution; introduces physiological receptors, the nature of drug-receptor interactions, drug metabolism, elimination.

PPS 3220 (80-0-5)
**Pharmacodynamics II**
Continuation of Pharmacodynamics I emphasizes cardiovascular agents, drugs affecting the endocrine system, autacoids and antithrombotic, anticoagulant and thrombolytic agents.
**Prerequisites:** Pharmacodynamics I

PPS 4140 (32-48-3)
**Pharmaceutics**
Continuation of Physical Pharmacy course. Principles, processes and techniques applied to Pharmaceutical systems, including preparation, use, assessment of pharmaceutical dosage forms. Emphasizes concepts from pharmaceutical dosage form design to dosage and regimen.
**Prerequisites:** Physical Pharmacy, Pharmacy Calculations
PPS 4180 (32-48-3)
Prescription Practice
Applies scientific, legal, ethical principles to the compounding, dispensing of medicinal agents used in modern medical practice. Analysis, interpretation, evaluation of prescription products in various forms.
Prerequisites: Pharmacodynamics I, II, & III, Therapeutics I
Co-requisites: Pharmacodynamics IV, Therapeutics II

PPS 4240 (96-0-6)
Pharmacodynamics III
Continuation of Pharmacodynamics II emphasizes drugs acting on central nervous system; vitamins and minerals. After 1996, four semester hours.
Prerequisites: Pharmacodynamics I

PPS 4260 (48-0-3)
Pharmacodynamics IV
Continuation of Pharmacodynamics III. Antineoplastic agents, locally active agents, biological and diagnostic agents and toxicology.
Prerequisites: Pharmacodynamics I

PPS 4990 0-(96-144)-(2-3)
Undergraduate Research
Performed under direction, supervision of one or more faculty members. With faculty, students plan and execute an approved project using basic techniques of scientific research. Elective.

PPS 5100/7100 (64-0-4)
Clinical Pharmacokinetics and Interpretation of Laboratory Data
Applies concepts and techniques of biopharmaceutics, pharmacokinetics to the design of individualized drug dosage regimens. Covers hepatic and renal impairment, effects of other diseases, drug interactions. After Winter, 1997, three semester hours.
Prerequisites: PD-3 standing

Pharmacy Practice

PPD 4400 (64-0-4)
Therapeutics I
Principles, application of rational pharmacotherapeutics for various disease states, including drug selection, monitoring of drug therapy. Influences of therapy include, where applicable, culturally derived health benefits, age-related issues for appropriate drug therapies.
Prerequisites: Pathophysiology I & II, Pharmacodynamics II

PPD 4420 (64-0-4)
Therapeutics II
Continuation of Therapeutics I emphasizes infectious, neoplastic, rheumatic diseases, contraceptives, drug abuse, hospice, pain management.
Prerequisites: Microbiology, Pharmacodynamics III

PPD 4460/7460 (16-16-2)
Physical Assessment
Covers clinical laboratory procedures, data interpretation, patient interviewing, patient progress charting, medication profiling, drug-induced problems, patient advisement.

PPD 5440 (96-0-6)
Advanced Pharmacotherapeutics
Continuation of Therapeutics. Difficult therapeutic challenges, emerging therapeutic modalities. Prerequisites: PD-3 standing
PPB / PPD 5500  (0-320-7)
Externship I
Eight-week, off-campus rotation in supervised community pharmacy. Applies didactic knowledge in non-simulated environments, development of competency in pharmacy practice, further development of communication skills. Full-time (40 hr/wk) rotation emphasizes distributive, management aspects of pharmacy. **Prerequisites:** Successful completion of all didactic course work

PPB / PPD 5520  (0-320-7)
Externship II
Continuation of Externship I for hospital pharmacy experience.

PPD 5600/7600  (32-0-2)
Drug Literature Evaluation
Sources of drug information, principles of drug literature evaluation, answering drug information questions, analyzing, evaluating drug literature, advertising. **Prerequisites:** Therapeutics I & II or permission

PPD 7400  (48-0-3)
Advanced Therapeutics I
Principles and application of pharmacotherapeutics for various disease states. Includes drug selection, monitoring drug therapy, culturally derived health benefits and practice, age-related issues, current issues in appropriate drug therapies. For Postgraduate Pharm.D. students. **Prerequisite/Co-requisite:** Advanced Pathophysiology I

PPD 7420  (60-0-4)
Advanced Therapeutics II
Continuation of Advanced Therapeutics I emphasizes infectious, neoplastic and rheumatic diseases; contraceptives, drug abuse, hospice, pain management. For Postgraduate Pharm.D. students. **Prerequisite:** Advanced Pathophysiology I **Co-requisite:** Advanced Pathophysiology II

Clerkship II Rotations
Four modules: Ambulatory Care, Drug Information, Geriatric Care, Internal Medicine. Each consists of four-week, full-time (40 hr/wk) off-campus rotations in a supervised pharmacy practice emphasizing nondistributive, clinical aspects of pharmacy practice. Students apply knowledge, develop competency in pharmacy practice, enhance knowledge of therapeutic management. **Prerequisites:** Successful completion of all didactic course work

PPB 5620  (0-160-3.5)
PPD 6620/8620
Internal Medicine
Presents common diseases: hypertension, congestive heart failure, diabetes, renal failure, etc. Students participate as members of health care team to develop effective, least toxic, most economical pharmacological regimens for elderly patients.

PPB 5640  (0-160-3.5)
PPD 6640/8640
Ambulatory Care
Interaction with ambulatory patients. Students participate as members of health care team to encourage drug therapy through extensive patient monitoring, obtain medical, drug information directly from patients during interviews.

PPB 5660  (0-160-3.5)
PPD 6660/8660
Geriatric Care
Emphasizes differences in providing care for the elderly as opposed to younger individuals. Students participate as members of health care team to develop effective, least toxic, most economical pharmacological regimens for elderly patients.
Clerkship III

Four rotations

Four clerkships, each 3.5 credit hours or 160 clock hours. Off-campus rotations in supervised practice environments emphasize nondistributive, clinical aspects of pharmacy practice in a specialty area, allowing students to specialize, obtain greater practice experience. Specialty rotations may include but are not limited to: pharmacokinetics, infectious disease, nutritional support, psychopharmacy, pediatrics, rheumatology, surgery, critical care, cardiology, neonatology, immunology and clinical research where available.

Prerequisites: Successful completion of all didactic course work

Physiology

Chairman & Associate Professor: S. Taraskevich; Associate Professor: A. Posner; Assistant Professors: D. Palazzolo; J. Leedham

PHY 5210

Anatomy and Pathophysiology I

Study of disease processes emphasizes functional changes, supporting nomenclature, terminology. Prerequisite for Therapeutics. Covers body fluids, cell structure and function, biophysics, cell injury and neoplasia, tissues, skin, skeletal and muscle systems, nervous system, hematology, immunology. Addresses each from standpoint of basic physiology, disease processes.
Externship/Clerkship Sites

The following institutions are affiliated with NSU-COP for experiential education:

- Allen Drugs
  S. Miami, FL

- Allied Health Care
  Ft. Lauderdale, FL

- Americare
  Miami, FL

- Aventura Hospital & Medical Center
  Aventura, FL

- Baptist Hospital
  Miami, FL

- Bascom Palmer Eye Institute
  Miami, FL

- Boca Pharmacy & Home Health Center
  Boca Raton, FL

- Boca Raton Community Hospital
  Boca Raton, FL

- Brickell Pharmacy
  Miami, FL

- Broward General Medical Center
  Ft. Lauderdale, FL

- Broward Public Health Clinics
  Ft. Lauderdale, FL

- Budget Pharmacy
  Miami, FL

- Care Florida
  Miami, FL

- Caremark Prescription Services
  Ft. Lauderdale, FL

- Cedars Medical Center
  Miami, FL

- The Chemist
  Aventura, FL

- Cleveland Clinic Hospital
  Ft. Lauderdale, FL

- Clinical Pharmacology Services
  Tampa, FL

- Colonial Health Care Services
  Ft. Lauderdale, FL

- Compscript
  Boca Raton, FL

- Coral Gables Hospital
  Coral Gables, FL

- Coral Springs Medical Center
  Coral Springs, FL

- Coram Health Care
  Miami, FL

- Deering Hospital
  Miami, FL

- Delray Community Hospital
  Delray Beach, FL

- Family First Medical Center
  Miami, FL

- Fedco Pharmacy
  Ft. Lauderdale, FL

- Fedco Pharmacy
  Miami Beach, FL

- Florida Hospital
  Orlando, FL

- Florida Medical Center
  Ft. Lauderdale, FL

- Florida Pharmacy Association
  Tallahassee, FL

- Florida Poison Information Center
  Miami, FL

- Florida Poison Information Center
  Tampa, FL

- Foundation Health
  Miami, FL

- H. Lee Moffitt Cancer Center
  Tampa, FL

- Harrington's Professional Arts Pharmacy
  Naples, FL

- HCA Raulerson
  Okeechobee, FL

- Hollywood Medical Center
  Hollywood, FL

- Holy Cross Hospital
  Ft. Lauderdale, FL

- Hospice of Palm Beach County
  West Palm Beach, FL

- HRS Broward County Public Health
  Ft. Lauderdale, FL

- Imperial Point Medical Center
  Ft. Lauderdale, FL

- InPhyNet Medical Management
  Ft. Lauderdale, FL

- Jackson Memorial Hospital
  Miami, FL

- Jerry's Drugs
  Sunrise, FL

- JFK Medical Center
  Atlantis, FL

- Kendall Regional Medical Center
  Miami, FL

- Lee Memorial Hospital
  Ft. Myers, FL

- Medical Services Consortium
  Miami, FL

- Memorial Regional Hospital
  Hollywood, FL

- Mercy Hospital
  Miami, FL
<table>
<thead>
<tr>
<th>Pharmacy Name</th>
<th>Location</th>
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<tbody>
<tr>
<td>Miami Children’s Hospital</td>
<td>Miami, FL</td>
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<tr>
<td>Miami Jewish Home and Hospital for the Aged</td>
<td>Miami, FL</td>
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<tr>
<td>Milton Medical &amp; Drug Co.</td>
<td>Miami Beach, FL</td>
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<td>Modern Pharmacy</td>
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<td>Morton Plant Mease Hospital</td>
<td>Clearwater, FL</td>
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<td>Motel Pharmacy</td>
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<td>Mount Sinai Medical Center</td>
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<td>My Pharmacy</td>
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<td>NMC Infusion Care</td>
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<td>North Ridge Medical Center</td>
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<td>Northside Medical Center Pharmacy</td>
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<td>Nova Southeastern University Drug Information Center</td>
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<td>Nova Southeastern University Health Center at Ft. Lauderdale</td>
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<td>Parkway Regional Medical Center</td>
<td>North Miami Beach, FL</td>
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<td>PCA Family Medical Center &amp; Pharmacies</td>
<td>Miami, FL</td>
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<td>Pembroke Pines, FL</td>
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<td>Plantation General Hospital</td>
<td>Plantation, FL</td>
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<td>Pompano Beach Medical Center</td>
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<td>Post Haste Surgical and Pharmacy</td>
<td>Hollywood, FL</td>
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<td>Prescription Drug Foundation</td>
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<td>ProxyMed Pharmacy</td>
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<td>South Park Pharmacy</td>
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</tr>
<tr>
<td>Spectrum Pharmacy Service</td>
<td>St. Petersburg, FL</td>
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<tr>
<td>St. Mary’s Hospital</td>
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<tr>
<td>Sunrise Systems, Inc.</td>
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<tr>
<td>Surf Drugs and Home Health Care</td>
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<tr>
<td>Target Pharmacy</td>
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<tr>
<td>Tampa General Hospital</td>
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<td>THC of Hollywood</td>
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<td>United Health Care of Florida</td>
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<tr>
<td>United Prescription Center</td>
<td>Hollywood, FL</td>
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<tr>
<td>University of Miami Health Services</td>
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<td>Vencor Hospital</td>
<td>Coral Gables, FL</td>
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<tr>
<td>Veterans Affairs Medical Center</td>
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<tr>
<td>Veterans Affairs Medical Center (James Haley)</td>
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<td>Veterans Affairs Medical Center</td>
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<td>Veterans Affairs Medical Center</td>
<td>Palm Beach Gardens, FL</td>
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<tr>
<td>Veterans Affairs Outpatient Clinic</td>
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<td>Villa Maria/Bon Secours Pharmacy</td>
<td>N. Miami, FL</td>
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<td>VitaLink Pharmacy Services</td>
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<td>West Boca Rehabilitation Hospital</td>
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<td>West Gables Rehabilitation Hospital</td>
<td>Miami, FL</td>
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<td>Winship’s Prescription Center</td>
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<td>Your Druggist, Inc.</td>
<td>Margate, FL</td>
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Student Organizations

Student Council

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

Many student organizations addressing various professional and practice-related interests are also open for student membership, including:

- Academy of Students of Pharmacy
- Rho Chi
- Phi Lambda Sigma
- Alpha Lambda Sigma (Inactive)
- Phi Delta Chi
- NARD Representing Independent Pharmacy - Student Chapter
- Florida Society of Health-System Pharmacists - Student Chapter
Mission Statement

The mission of the College of Optometry is to serve the optometric needs of the public by educating health care professionals as optometric physicians who render the highest quality of care with compassion and ethical behavior.

The major thrust to accomplish our mission is to train both primary and specialty care practitioners in multidisciplinary and interdisciplinary environments that foster a commitment to life-long learning.

To achieve our mission, the College establishes the following goals:

• To create and sustain a dynamic educational environment that will nurture intellectual inquiry

• To implement programs that serve and educate specific communities, especially those in need

• To seek out innovative educational experiences that address patient needs through involving a broad range of providers

• To create new knowledge and to expand understanding by promoting and supporting research and other scholarly endeavors

• To promote sensitivity to the health and social welfare of our communities.
Optometry

One of man's most precious gifts is sight. An optometric physician, through academic and clinical training, learns to examine, diagnose, treat and manage diseases and disorders of the visual system, the eye and associated structures to maintain this gift of sight. Optometry is an expanding profession that offers many career opportunities to those willing to study, work hard and assume the responsibilities of a primary health care professional.

Today's optometric physicians practice in large and small communities throughout the nation, either as individuals or at clinics and hospitals. They also take part in teaching, research and public health. As the only optometric school in Florida, the Nova Southeastern University College of Optometry will prepare students to treat vision and eye disorders and will provide an understanding of visual information processing, ocular anatomy and physiology.

Accreditation

The Doctor of Optometry program at the Nova Southeastern University College of Optometry is conditionally accredited by the American Optometric Association's Council on Optometric Education, and will undergo another accreditation visit in 1997. The AOA Council on Optometric Education is the accrediting body for programs in colleges and schools of optometry in the United States.

Requirements for Admission

The College of Optometry selects students based on pre-professional academic performance, Optometry Admission Test (OAT) scores, personal interviews, written application and letters of evaluation.

1. Prior to matriculation, applicants must have completed a minimum of 90 semester hours of specified course work and/or a baccalaureate degree at an accredited college or university with a 2.5 cumulative grade point average.

2. The College requires the students to earn a grade of 2.0 or better in each of the following required subjects:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus</td>
<td>3</td>
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<tr>
<td>Physics, including laboratory</td>
<td>8</td>
</tr>
<tr>
<td>Biology, including laboratory</td>
<td>8</td>
</tr>
<tr>
<td>General chemistry, including laboratory</td>
<td>8</td>
</tr>
<tr>
<td>Organic chemistry, including laboratory</td>
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Transcripts

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

Letters of Evaluation

An evaluation by a pre-professional health advisor or committee is required from the applicant’s undergraduate institution. If this evaluation cannot be provided, three individual letters of evaluation are required from undergraduate instructors, two from science instructors and one from a liberal arts instructor. If possible, these letters should be from faculty who know the applicant’s scholastic abilities and personal characteristics; otherwise, they should be from persons who can provide an evaluation to the Committee on Admissions. A letter of evaluation from an optometrist is highly recommended but not required.

Interview

A personal interview will be an integral part of the admission process; however, being granted an interview is not a guarantee of admission. It should also be clearly understood that not all applicants will be granted an interview. Those who are selected for an interview will be notified of the date and time of such interview by the Office of Admissions.
Tuition and Fees
The Board of Trustees has established the following tuitions and fees subject to change at any time at the discretion of the Board:

1. Tuition: $13,900 for Florida residents and $17,900 for residents of all other states for the 1997-98 academic year. 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 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 case of withdrawal. It is payable within two weeks of the applicant's acceptance.

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

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

5. Student Activities Fee: $100, payable at each fall registration.

The first semester's tuition and fees, less the $1,000 previously paid, are due on or before Registration Day. Students will not be admitted until their financial obligations have been met.

The financial ability of applicants to complete their training is important because of the limited number of positions available. Applicants should have specific plans for financing four years of professional education. This should include provision for tuition, living expenses, books and equipment, travel and miscellaneous expenses.

Dual Admissions Program
Undergraduate/O.D. Program
Nova Southeastern University Health Professions Division has established a dual admissions program with the Nova Southeastern University Farquhar Center for Undergraduate Studies for a select number of highly motivated, qualified students interested in pursuing both undergraduate and professional studies in Optometry. This allows students to receive their doctoral degrees in Optometry in a seven-year period.

Students must maintain a 3.0 grade point average and achieve acceptable scores on the Optometry Admission Test (OAT).

Students will spend three years in the Undergraduate School and will be awarded a B.S. degree from the Farquhar Center upon completion of the first year of professional education at Nova Southeastern University College of Optometry. Students will receive the O.D. (Doctor of Optometry) degree after four years of training at Nova Southeastern University College of Optometry.

For complete information and requirements, contact the Office of Admissions, Farquhar Center for Undergraduate Studies, Nova Southeastern University, 3301 College Avenue, Ft. Lauderdale, Florida 33314.

Financial Aid
The purpose of the Student Financial Aid Program at Nova Southeastern University is to help as many qualified students as possible to complete their optometric education. Various loans, scholarships, and grants are available to qualified students to help ease the high cost of an optometric education. These financial assistance programs are described
in a separate University publication: Financial Freedom.

Transfer Students

Circumstances may warrant that a student enrolled in one optometric college seeks to transfer to another institution. Any individual wishing to transfer to Nova Southeastern University College of Optometry must meet the following criteria.

The applicant must:

1. Make a formal application to the NSU College of Optometry Office of Admissions
2. Meet all admissions requirements to NSU College of Optometry, which include submitting official transcripts of all college work (including optometric transcripts), Optometry Admission Test (OAT) scores, National Board (NBEO) 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 admissions standards. Send application and documentation to:

Office of Admissions
College of Optometry
Nova Southeastern University
3200 South University Drive
Ft. Lauderdale, FL 33328

Promotion, Suspension, Dismissal and Re-Admission

The policies for promotion, suspension, dismissal and re-admission are outlined in the College of Optometry Student Handbook, which is revised, updated and distributed annually to all optometry students.

Requirements for Graduation

In order to be eligible for the degree of Doctor of Optometry, each student shall:

1. Be of good moral character
2. Have satisfactorily completed the program of study required for the degree, including all assignments, with at least 160 semester hours
3. Have satisfactorily met all financial obligations
4. Have taken Parts I and II of the National Board Examination, documented by sending a copy of test scores to the Associate Dean for Academic Affairs
5. Have obtained a Baccalaureate degree (The College of Optometry awards a baccalaureate degree to those individuals who do not possess a baccalaureate degree and who complete 90 credit hours of undergraduate work, plus two years of optometric study at Nova Southeastern University.)
6. Attend in person the rehearsal and commencement program at which time the degree is conferred.

The College reserves the right, and the student, by his/her act of matriculation, concedes to the College the right to require withdrawal at any time the College deems it necessary to safeguard its standards of scholarship, professional behavior and compliance with regulations or for such other reasons as are reasonably appropriate.
Course of Study

The Doctor of Optometry (O.D.) is a professional degree which requires four years of professional study. During the first two years, students concentrate on anatomy and physiology, general and visual systems, and on principles of ocular and general disease. In addition, they receive lecture, laboratory, and clinical instruction in primary care optometry and the conducting of an optometric examination.

During the second year, students study the diagnosis and treatment of abnormalities of vision. In the third year, they begin to examine patients in the University’s clinics. They care for adult, pediatric, and geriatric patients.

The fourth-year program provides students with extensive education in primary and optometric specialty care—in which they fit contact lenses and administer visual training—and in medical/surgical care settings. These clinics are either University-operated or are affiliated with the College of Optometry.

<table>
<thead>
<tr>
<th>CURRICULUM OUTLINE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year</strong></td>
</tr>
<tr>
<td><strong>First Semester</strong></td>
</tr>
<tr>
<td>ANA 5310 Histology/Embryology</td>
</tr>
<tr>
<td>ANA 5320 Gross Anatomy: Head and Neck</td>
</tr>
<tr>
<td>BIC 5300 Biochemistry</td>
</tr>
<tr>
<td>MIC 5300 Microbiology</td>
</tr>
<tr>
<td>OVS 5110 Geometrical Optics</td>
</tr>
<tr>
<td>OCS 5110 Introductory Optometry</td>
</tr>
<tr>
<td>OCS 5100 Optometric History</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
</tr>
</tbody>
</table>

| **Second Semester** |
| Lecture | Laboratory | Semester Hours |
| ANA 5340 Neuroanatomy | 2 | 1 | 2.5 |
| OVS 5210 Ocular Anatomy | 1.8 | 0.2 | 2 |
| PHS 5300 General Physiology | 3 | 0 | 3 |
| OVS 5130 Physical Optics | 2 | 1 | 2.5 |
| OVS 5120 Visual Optics | 2 | 1 | 2.5 |
| OVS 5310 Vision Science I: Visual Neurophysiology | 1 | 0.5 | 1.25 |
| OCS 5130 Optometric Theory and Methods I | 2 | 4 | 4 |
| OCS 5120 Patient Communication | 2 | 0 | 2 |
| **Total Hours** | 15.8 | 7.7 | 19.75 |

| **Second Year** |
| **First Semester** |
| Lecture | Laboratory | Semester Hours |
| PTH 6300 General Pathology | 3 | 0 | 3 |
| OVS 6220 Ocular Physiology | 2 | 0 | 2 |
| OCS 6210 Ocular Disease I (Anterior Segment) | 3 | 0 | 3 |
# College of Optometry

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Lecture</th>
<th>Laboratory</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVS 6320</td>
<td>Vision Science II: Psychophysics/ Monocular Sensory Processes</td>
<td>3</td>
<td>2</td>
<td>4</td>
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<tr>
<td>OVS 6140</td>
<td>Ophthalmic Optics I</td>
<td>3</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>PCO 6310</td>
<td>General Pharmacology</td>
<td>4</td>
<td>0</td>
<td>4</td>
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<tr>
<td>OCS 6140</td>
<td>Optometric Theory &amp; Methods II</td>
<td>2</td>
<td>4</td>
<td>4</td>
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<tr>
<td>OCS 6302</td>
<td>Vision Screening I</td>
<td>0</td>
<td>4</td>
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<td><strong>Total Hours</strong></td>
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<td><strong>20</strong></td>
<td><strong>12</strong></td>
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## Second Year

### Second Semester

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<th>Laboratory</th>
<th>Semester Hours</th>
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<tr>
<td>PCO 6320</td>
<td>Ocular Pharmacology</td>
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<tr>
<td>OCS 6220</td>
<td>Ocular Disease II (Posterior Segment)</td>
<td>3</td>
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<td>OVS 6340</td>
<td>Vision Science III: Ocular Motility</td>
<td>2</td>
<td>1</td>
<td>2.5</td>
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<td>OVS 6350</td>
<td>Vision Science IV: Introduction to Binocular Vision</td>
<td>2</td>
<td>1</td>
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<tr>
<td>OVS 6150</td>
<td>Ophthalmic Optics II</td>
<td>3</td>
<td>2</td>
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<tr>
<td>OCS 6150</td>
<td>Case Analysis</td>
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<td>OCS 6160</td>
<td>Optometric Theory &amp; Methods III</td>
<td>1</td>
<td>2</td>
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<td>OCS 6312</td>
<td>Vision Screening II</td>
<td>0</td>
<td>4</td>
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<td>OCS 6410</td>
<td>Optometric Economics I</td>
<td>2</td>
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<tr>
<td><strong>Total Hours</strong></td>
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## Third Year

### Summer Semester

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<th>Semester Hours</th>
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<tr>
<td>OCS 7170</td>
<td>Pediatric Optometry</td>
<td>2</td>
<td>0</td>
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<tr>
<td>OCS 7180</td>
<td>Optometric Theory and Methods IV</td>
<td>0</td>
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<tr>
<td>OCS 7420</td>
<td>Optometric Economics II</td>
<td>1</td>
<td>0</td>
<td>0.5</td>
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<tr>
<td>OCS 7312</td>
<td>Clinical Conference</td>
<td>1</td>
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<tr>
<td>OCS 7322</td>
<td>Primary Care Patient Care I</td>
<td>0</td>
<td>8</td>
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<tr>
<td>OCS 7570</td>
<td>Geriatric Optometry I</td>
<td>2</td>
<td>0</td>
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<tr>
<td>OCS 7260</td>
<td>Clinical Medicine I</td>
<td>2</td>
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<tr>
<td>NBEO Review</td>
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## Third Year

### First Semester

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<tr>
<th>Course</th>
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<th>Laboratory</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>OCS 7510</td>
<td>Anomalies of Binocular Vision I</td>
<td>2</td>
<td>2</td>
<td>3</td>
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<tr>
<td>OCS 7520</td>
<td>Contact Lenses I</td>
<td>2</td>
<td>2</td>
<td>3</td>
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<tr>
<td>OCS 7230</td>
<td>Ocular Disease III: Ocular/Systemic</td>
<td>3</td>
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<td>3</td>
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<tr>
<td>OCS 7190</td>
<td>Optometric Theory and</td>
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<td>Lecture</td>
<td>Laboratory</td>
<td>Semester Hours</td>
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<td>OCS 7240</td>
<td>Public Health/Epidemiology</td>
<td>3</td>
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<td>OCS 7430</td>
<td>Optometric Economics III</td>
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<tr>
<td>OCS 7332</td>
<td>Primary Care Patient Care II</td>
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<td>8</td>
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<tr>
<td>OCS 7580</td>
<td>Geriatric Optometry II</td>
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<td>0</td>
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<tr>
<td>OCS 7270</td>
<td>Clinical Medicine II</td>
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<td><strong>Total Hours</strong></td>
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**Third Year**

**Spring Semester**

<table>
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<th>Lecture</th>
<th>Laboratory</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>OCS 7530</td>
<td>Anomalies of Binocular Vision II</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>OCS 7550</td>
<td>Learning Disabilities</td>
<td>2</td>
<td>0</td>
<td>2</td>
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<tr>
<td>OCS 7540</td>
<td>Contact Lenses II</td>
<td>2</td>
<td>2</td>
<td>3</td>
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<tr>
<td>OCS 7250</td>
<td>Ocular Disease IV: Neuro-Optometry</td>
<td>3</td>
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<tr>
<td>OCS 7560</td>
<td>Rehabilitative Optometry</td>
<td>2</td>
<td>2</td>
<td>3</td>
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<tr>
<td>OCS 7440</td>
<td>Optometric Economics IV</td>
<td>1</td>
<td>0</td>
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<tr>
<td>OCS 7342</td>
<td>Primary Care Patient Care III</td>
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<td><strong>Total Hours</strong></td>
<td></td>
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<td><strong>14</strong></td>
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**Fourth Year**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Laboratory</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>OCS 8580</td>
<td>Clinical Seminar*</td>
<td>2</td>
<td>0</td>
<td>2</td>
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<tr>
<td>OCS 8190</td>
<td>Environmental Optometry*</td>
<td>2</td>
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<tr>
<td>OCS 8450</td>
<td>Optometric Economics V*</td>
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<td></td>
<td>Clinical Externship (one per trimester)</td>
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<td>OCS 8352</td>
<td>Primary Care Externship</td>
<td>0</td>
<td>40</td>
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<tr>
<td>OCS 8512</td>
<td>Secondary Care Externship (Specialty)</td>
<td>0</td>
<td>32</td>
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<tr>
<td>OCS 8612</td>
<td>Tertiary Care Externship (Medical/Surgical)</td>
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<td>40</td>
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<tr>
<td><strong>Total Hours</strong></td>
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<td><strong>6</strong></td>
<td><strong>112</strong></td>
<td><strong>34</strong></td>
</tr>
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* = taken only in the specialty trimester

**College of Optometry Courses**

(Note: Listed to the right of each entry are lecture hours, laboratory hours, and semester hours.)

**Anatomy**

**Chairman & Professor:** G.R. Conover; **Professors:** L.B. Dribin, S. Schatz; **Professor Emeritus:** F.H. Higginbotham; **Associate Professors:** J.C. Lanning, A. Mariassey

**ANA 5310 (18-0-1)**

*Histology & Embryology*

Overview of histology and embryology emphasizing the basic tissues needed to understand the histology of the eye.
ANA 5320  (54-36-4)
Gross Anatomy: Anatomy of the Head and Neck
Introduces students to structure of the human body. Course is presented with an organ systems approach. Laboratory work provides a study of cadaver material. Also, a detailed study of the gross structures of the head and neck, including the eye.

ANA 5340  (36-18-2.5)
Neuroanatomy
Study of the gross structure of the brain and spinal cord and the functional relationship among their parts. Emphasizes major motor and sensory pathways and integrative mechanisms of the central nervous system.

OVS 5210  (32-9-2)
Ocular Anatomy
Study of the gross and microscopic structures of the eye and its adnexa to better understand the alterations that occur in ocular disease and abnormality.

Biochemistry
Chairman & Professor: K.H.Woodside; Professor: E.E.Grosecloe; Associate Professors: R.E.Block, E.O.Keith

BIC 5300  (54-0-3)
Biochemistry
Emphasizes the metabolism of proteins, lipids, nucleic acids and carbohydrates, followed by an introduction to the biochemical aspects of the visual, digestive, muscular, respiratory and endocrine systems.

Microbiology
Chairman & Professor: H.E.Laubach; Professor: H.Hada; Associate Professor: D.Burris

MIC 5300  (54-0-3)
Microbiology
Covers immunology, bacteriology, mycology, parasitology and virology with emphasis on infectious diseases of the eye.

Optometric Basic Science
Professor: B.Gilman; Associate Professor: M.Fendick; Assistant Professors: M.Barris, M.Bergman; Instructor: S.Thomas

OVS 5110  (72-36-5)
Geometrical Optics
Teaches the principles of geometric optics with examples and optometric applications where possible. Includes study of linear propagation, reflection, refraction, prisms, thin lenses alone and in combination, thick lenses, lens aberrations and some ophthalmic instruments.

OVS 5120  (36-18-2.5)
Visual Optics
Covers optical properties of the eye, refractive state of the eye, retinal image formation, accommodation and entoptic phenomena.

OVS 5130  (36-18-2.5)
Physical Optics
Teaches optical principles, primarily those of wave optics, with applications, examples and laboratory demonstration. Includes wave equations, interference, diffraction, polarization, dispersion, photometry, spectroscopy, lasers and holographs.

OVS 5310  (18-9-1.25)
Vision Science I
(Visual Neurophysiology)
Introduces the concepts of visual neurophysiology needed to understand normal visual perception, probable source of visual symptoms associated with various eye and CNS disorders, underlying principles of new clinical diagnostic tests for eye and CNS disease and current neurophysiological research as it relates to the clinical practice of optometry.
OVS 6140  (54-36-4)
Ophthalmic Optics I
Applies knowledge of geometrical and physical optics to ophthalmic equipment, ophthalmic lenses and prisms, frames, and spectacle prescriptions (writing and verifying). The laboratory has frames, lenses and fabrication sections.

OVS 6150  (54-36-4)
Ophthalmic Optics II
Covers design and construction of multifocal lenses, guidelines for frame and lens choices, alignment and fitting procedures for various prescription requirements. Students gain hands-on experience in selecting, ordering, fabricating, fitting and dispensing spectacles.

OVS 6320  (54-36-4)
Vision Science II (Psychophysics / Monocular Sensory Processes)
Presents classical and modern methods used to measure visual thresholds, attempts to formulate a psychophysical law and an alternate to threshold determination (i.e. signal detection theory), introduces perceptual properties of the visual system. Covers spatial and temporal aspects of vision, theories of color vision, color vision testing, rationale for construction of color vision tests, and photoreceptor properties that affect visual perception, i.e., the Stiles-Crawford effect.

OVS 6340  (36-18-2.5)
Vision Science III (Ocular Motility)
Survey of movements of the extraocular muscles, ciliary muscle, iris and muscles of the ocular adnexa. Discusses measurement techniques, types of eye movements, the neurological control systems involved in moving the eyes and clinical syndromes. Emphasizes the interaction of eye muscles and neurological signals.

OVS 6350  (36-18-2.5)
Vision Science IV (Introduction to Binocular Vision)
Covers sensory aspects of binocular vision and their neurophysiological foundations. Major topics: visual direction, the horopter, binocular fusion, rivalry, stereopsis, aniseikonia, motion in depth, binocular visual neurophysiology, normal development of binocular vision, strabismic and anisometropic amblyopia, normal and anomalous retinal correspondence. Discusses clinical, research-oriented tests and treatments for abnormal binocular visual function.

Optometric Clinical Science

OCS 5100  (18-0-1)
Optometric History
Introduces the role of optometry in health care, past, present and future and addresses an optometrist's ethical, moral, legal obligations.

OCS 5110  (36-36-3)
Introductory Optometry
Elementary concepts of refractive errors, binocularity and ocular diseases.

OCS 5120  (36-0-2)
Patient Communication
Presents optometric history, regulating agencies, code of ethics, modes of practice, associations of the optometric profession, legal issues and liability, doctor/patient relations.
OCS 5130  (36-72-4)
Optometric Theory & Methods I
Covers the purpose and meaning behind procedures and the optics of the instruments utilized, proper recording of data and patient instructions. Preliminary vision tests, refraction, keratometry, biomicroscopy, retinoscopy.

OCS 6140  (36-72-4)
Optometric Theory & Methods II
Covers procedures required to perform a comprehensive vision examination before entering vision clinics, including application of drops, measuring intraocular pressure, examining the fundus using a binocular indirect ophthalmoscope, a direct ophthalmoscope and a 90D lens and binocular vision testing using a Vetrographic system.

OCS 6150  (36-0-2)
Case Analysis
Analyzes data collected during refractive portion of the vision examination to determine appropriate treatment for refractive anomalies. Analysis consists of graphing the data, prescribing for the patient based on the graph, history, symptoms, problems presented.

OCS 6160  (18-36-2)
Optometric Theory and Methods III
Special testing procedures and indications for their application: exophthalmometry, Worth 4-DOT, gonioscopy, autorefraction, autokeratometry, Goldmann visual fields.

OCS 6302  0-12(Clinic)-1
Vision Screening I
Students provide vision screening tests on various populations in their normal settings, e.g. school children in public, private school systems, workers in their place of employment, etc.

OCS 6312  0-18(Clinic)-1
Vision Screening II
Continuation of Vision Screening I.

OCS 6410  (36-0-2)
Optometric Economics I
Explores career path decisions and concepts of location, financing methods, office design, policies and procedures. Marketing, use of assistants, patient management from first phone call to placement in inactive file.

OCS 7170  (20-0-1)
Pediatric Optometry
Covers the visual needs of children and youth, anomalies of binocular vision, abnormal vision development, visually-related learning disabilities.

OCS 7180  (0-20-0.5)
Optometric Theory and Methods IV
Presents special testing procedures and indications for use in clinical practice: computer application in practice, dynamic retinoscopy, examination of children, Schirmer tear test, Jones test.

OCS 7190  (18-36-2)
Optometric Theory and Methods V
Presents special testing procedures and indications for use in clinical practice: the Goldmann fundus lens, foreign body removal, rust ring removal, palpation of lymph nodes, carotid pulse auscultation.

OCS 7240  (54-0-3)
Public Health and Epidemiology
A review of the health care system from optometric and public health perspectives. Public health concepts are applied in the optometric setting, including principles of epidemiology, biostatistics, demographic analysis.
OCS 7312  (10-0-0.5)  
Clinical Conference  
Adjunct to Clinical Primary Care. Review and discussion of appropriate data collection leading to proper clinical diagnosis and management of all aspects of optometric patient care. Lectures, small group discussions emphasize integration of knowledge gained in didactic courses with clinical case examples.

OCS 7322  0-80(Clinic)-1  
Primary Care Patient Care I  
Examination of patients in a primary care setting.

OCS 7332  0-144(Clinic)-2  
Primary Care Patient Care II  
Examination of patients in primary care setting.

OCS 7342  0-144(Clinic)-2  
Primary Care Patient Care III  
Examination of patients in primary care setting.

OCS 7420  (10-0-0.5)  
Optometric Economics II  
Study of employment opportunities, practice association or purchase, selecting a lawyer, accountant, financial advisor. Students analyze balance sheet, negotiate a bank loan, select staff and professionals. Issues of retirement conclude the course.

OCS 7430  (18-0-1)  
Optometric Economics III  
Prepares the third year student to enter the world of optometry by combining, refining techniques covered in Optometric Economics I and II using practical problem solving. Personal resumes are designed and interview techniques for professional placement are practiced with each student.

OCS 7440  (18-0-1)  
Optometric Economics IV  
Discussion of skills related to the establishment of a successful optometric practice. Covers employee training, marketing, managing, and utilization of the office procedure manual.

OCS 7510  (36-36-3)  
Anomalies of Binocular Vision I  
Testing, analysis, diagnosis and management of non-strabismus anomalies of ocular motility, strabismus and amblyopia. Presents lenses, prisms and vision therapy to ameliorate non-strabismus dysfunction. Also presents normal development, developmental disorders, and testing of vision associated with abnormal development including visual motor.

OCS 7520  (36-36-3)  
Contact Lenses I  
Introduces contact lenses and explores historical, technical, clinical aspects of lens materials, lens design, and fitting.

OCS 7530  (36-36-3)  
Anomalies of Binocular Vision II  
Covers testing, analysis, diagnosis, management of strabismus and amblyopia, utilization of lenses, prisms and vision therapy to ameliorate strabismus and amblyopia.

OCS 7540  (36-36-3)  
Contact Lenses II  
Theoretical, practical aspects of fitting hydrogel and advanced lens designs and materials with a working knowledge of fitting more complex cases.

OCS 7550  (36-0-2)  
Learning Disabilities  
Covers evolution and human ontogeny as they relate to vision development. Lags in vision development may affect learning; course provides knowledge to identify, treat them. Addresses role of optometrist in the interdisciplinary approach.
OCS 7560 (36-36-3)
Rehabilitative Optometry (Low Vision)
Covers etiology, demography, clinical characteristics of low vision needed to understand functional implications of visual impairment. Systematic approach to diagnosis, management of visual disorders emphasizes improving life quality, functional capacity of the visually impaired by magnification, illumination control and visual field enhancement.

OCS 7570 (20-0-1)
Geriatric Optometry I
Discusses aging from sociological, psychological, biophysical perspectives; reviews diagnosis, management of visual conditions, ocular diseases of older adults, and role of optometrists as members of multidisciplinary healthcare team providing services to community-based, institutionalized geriatric patients.

OCS 7580 (18-0-1)
Geriatric Optometry II
Continuation of Geriatric Optometry I

OCS 8190 (32-0-2)
Environmental Optometry
Covers industrial (occupational) vision, protection in the workplace from flying objects, radiation, sparks, etc.; how humans interact with environment through and with the eyes; sports vision, protective eyewear for recreational activities (diving, boating, skiing, sunbathing), design of video displays, and effects of special environments (haze, fog, underwater and space).

OCS 8352 0-640 (Clinic)-10
Primary Care Externship
Covers primary optometric care in multidisciplinary setting, with students functioning as the primary care giver, the attending optometrist functioning as an advisory colleague, with consultation/referral sources readily available.

OCS 8450 (32-0-2)
Optometric Economics V
The professional life cycle from graduation to retirement. Practical real world situations presented by instructor, selected guest speakers. Economic problem solving and lecture presentations by students. Beside formal final examination, students present a simulated interview for association into a practice, together with a rational purchase or partnership agreement for that practice.

OCS 8512 0-512 (Clinic)-8
Secondary Care Externship (Specialty)
Sensitizes student clinicians to complexity, unique needs, demands of patients requiring optometric services. Advanced training in functional vision disorders, geriatrics, low vision, contact lens therapy.

OCS 8580 (32-0-2)
Clinical Seminar
Clinical cases demonstrate basic, advanced principles of optometric care. Cases are drawn from patients seen in clinics, supported by studies from the literature.

OCS 8612 0-640 (Clinic)-10
Tertiary Care Externship (Medical/Surgical)
Exposes student clinicians to significant ocular diseases and to medical, surgical management of ocular problems including cataracts, glaucoma, retinopathies.

Ocular Disease and Pathology
Professor: M.A.Khin; Associate Professors: K.Khin, J.Sowka; Assistant Professors: K.Reed, A.Woods

PTH 6300 (54-0-3)
General Pathology
Introduces each organ system. Emphasizes how disease manifests in the eye.
**OCS 6210 (54-0-3)**  
**Ocular Disease I (Anterior Segment)**  
Covers diagnosis, pharmacological management of ocular adnexa, cornea, external diseases. Clinical rotations emphasize treatment modalities.

**OCS 6220 (54-0-3)**  
**Ocular Disease II (Posterior Segment)**  
Covers diagnosis, management of disease processes associated with the crystalline lens, structures that constitute the posterior segment of the eye.

**OCS 7230 (54-0-3)**  
**Ocular Disease III (Ocular/Systemic Disease)**  
Covers ocular manifestations of specific systemic diseases, addresses physician's treatment modalities, effects on the ocular systems. Clinical grand rounds aid in interdisciplinary management of these problems.

**OCS 7250 (54-0-3)**  
**Ocular Disease IV (Neuro-Ophthalmology)**  
Covers diagnosis, management of disease processes associated with the ocular system in the areas of neuropathology, oncology, and radiology. Clinical rotations emphasize diagnosis and treatment.

**OCS 7260 (20-0-1)**  
**Clinical Medicine I**  
Covers the clinical process in the medical diagnosis, treatment of systemic diseases, management of sick patients and potential ocular complications.

**OCS 7270 (36-0-2)**  
**Clinical Medicine II**  
Continuation of Clinical Medicine I.

**Pharmacology**  
**Chairman and Associate Professor:** L. Crespo; **Assistant Professors:** M. Hill, A. Trinidad

**PCO 6310 (72-0-4)**  
**General Pharmacology**  
Covers drug action, examines classes of drugs used in clinical practice. Emphasizes structure and activity, mode of action, side effects, toxicity, drug interactions. Stresses pharmacological intervention of pathophysiological processes, clinical application of each drug class.

**PCO 6320 (54-0-3)**  
**Ocular Pharmacology**  
Studies drugs used in the eye or capable of exerting a pharmacological or toxicological effect on the eye.

**Physiology**  
**Chairman & Associate Professor:** S. Taraskevich; **Professor:** S. Schatz; **Associate Professor:** A. Posner; **Assistant Professors:** D. Palazzolo, J. Leedham

**PHS 5300 (54-0-3)**  
**General Physiology**  
Study of human physiology presented with organ systems approach; general (cell, membrane, muscle and blood) and cardiovascular physiology.

**OVS 6220 (36-0-2)**  
**Ocular Physiology**  
Applies general physiological principles and processes, such as cellular membrane translocation and electrophysiology, to the eye and visual system.
**Student Organizations**

**Student Council**

Student Council is the official voice of all students. The organization is open to all students, and welcomes proposals and participation from the entire student body. Its responsibilities include collecting and expressing student opinion, dispensing funds for student activities, acting as liaison for the student body, promoting optometry, supporting club and class activities, and working to improve the quality of life for students at the College of Optometry.

Many other student organizations addressing various professional and practice-related interests are open for student membership, including:

- American Optometric Student Association
- Beta Sigma Kappa (BSK)
- College of Optometrists in Vision Development (COVD)
- National Optometric Student Association (NOSA)
- Student Government Association (SGA)
- Volunteer Optometric Services to Humanity (VOSH)
College of Allied Health
College of Allied Health

The College of Allied Health is committed to preparing the highest quality rehabilitative, public health, and mid-level providers for a supporting role in tomorrow's health care team.

The Physician Assistant Program, the College's first offering, opened in 1993, became accredited in 1994, and graduated its charter class of 16 students in 1995.

The Occupational Therapy Program opened in 1994, became accredited in 1995, and will graduate its charter class of 49 master-level students in winter, 1997. In 1995, students were enrolled in the Doctor of Occupational Therapy program, one of the only professional/clinical O.T. doctoral programs in the nation.

The Master of Physical Therapy Program opened in 1994, graduated its charter class of 58 students in summer, 1996, and awaits its final accreditation.

In 1995, the Master of Public Health Program was launched as part of a dual degree program and has awarded 21 M.P.H. degrees to date. Over 100 Health Professions Division students are currently enrolled in the program, as are several West Florida students who are taking part in an innovative M.P.H. distance learning program utilizing interactive Compressed Video.

Expenses and Financial Aid

Students should anticipate spending approximately $1,500 for books, equipment and supplies and $19,000 per academic year for living expenses. 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 health professions education. Various loans, scholarships and grants are available to qualified students to help ease the high cost of a health professions education. These assistance programs are described in a separate University publica-
Financial Freedom. The demands of these programs limit the number of hours a student can work at an outside job. During the months of clinical rotations, it is difficult or impossible for the student to work.

Transfer Credits

Any student wishing to transfer from another university into a College of Allied Health program must provide the following:
1. Official transcripts from all colleges or universities previously attended, sent directly to Nova Southeastern University College of Allied Health Office of Admissions
2. A letter of recommendation to the NSU Program Director from the director of the program in which the applicant is currently enrolled

Transfer credit, if awarded, will be given pending transcript evaluation and for courses which are directly applicable to outlined curriculum courses in the specific Allied Health Program to which application is being made. All transfer credit decisions will be made at the discretion of the Program Director and Dean of the College of Allied Health.

Suspension/Dismissal

Failure to complete successfully any course upon repeating it will result in automatic suspension, and may lead to dismissal, regardless of the student’s GPA. This applies to didactic and field course work. Failing two or more courses, didactic or fieldwork, will result in automatic suspension and may lead to dismissal.

Any student falling in the above categories may be required to repeat courses (at his/her expense), at the recommendation of the Program Director and at the discretion of the Dean. Any student with a grade point average below 70% for two semesters will be suspended and may be dismissed.

Unprofessional conduct will result in dismissal.

All dismissals are evaluated by and based on the recommendations of the Committee on Academic Student Progress. For further information on academic dismissal and the process of appeals, refer to the student handbook.

Re-admission Policy

Students previously registered in the College of Allied Health, who were not registered the immediately preceding semester, must apply for re-admission, except for those granted a leave of absence. Students who have attended one or more academic institutions while absent from this College must have complete official transcripts sent directly to the Office of Admissions from each institution attended. (Reserve military students on active duty who have attended additional service school must also submit an updated DD Form 295.)

Applications for re-admission are considered on the basis of the regulations currently in effect, not the requirements which were in effect when originally admitted. The application fee is waived for students applying for re-admission after previous enrollment as degree candidates at this College, if they have not since registered at another institution.

The College reserves the right, and the student, by his/her act of matriculation, concedes to the College the right to require withdrawals at any time the College deems it necessary to safeguard its standards of scholarship, professional behavior and compliance with regulations or for such other reasons as are deemed appropriate.
PHYSICIAN ASSISTANT PROGRAM

America is struggling to provide quality, affordable health care for all of its citizens. There is an estimated shortage of 100,000 primary care physicians in the U.S., and it takes seven to ten years to train a physician. One answer lies with Physician Assistants (PAs).

PAs are health care professionals who practice medicine with physician supervision. Today, there are over 30,000 PAs providing health care that would otherwise be performed by physicians. PAs take medical histories, perform physical examinations, order and interpret tests, diagnose and treat illnesses, suture wounds, assist in surgery, and, in most states, write prescriptions. PAs work in most medical specialties and in all types of communities. Many practice family and internal medicine, and over one-third are in towns with fewer than 50,000 residents.

The PA profession is one of the fastest growing health care professions. The U.S. Department of Labor projects that the number of jobs for PAs in the U.S. will increase by 44 percent through the year 2005.

Each year PAs handle over 150 million patient visits. The quality of their care has been extensively analyzed by both public and private researchers. Their conclusion: PAs provide quality medical care and can treat about 80 percent of the patients in a general practice, and at lower cost to the health care system. Their use frees up the physician's time for more critical procedures and enhances patient satisfaction and access to health care.

As federal and state governments grapple with the problems of providing quality medical care cost-effectively, one solution is the team approach to health care - a team that includes Physician Assistants.

Accreditation

The Physician Assistant Program at Nova Southeastern University is fully accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). This program is a member of the national Association of Physician Assistant Programs.

Requirements for Admissions

The Physician Assistant Program selects students based on pre-professional academic performance, test scores, personal interviews, written application and letters of evaluation.

1. Prior to matriculation, applicants must have completed a minimum of 60 semester hours of specified course work, exclusive of physical education, with a minimum GPA of 2.5 on a four-point grading scale.

2. The College requires the students to earn a grade of 2.0 or better in each of the following required subjects:

   - Algebra
   - English composition
   - English literature
   - Humanities/Arts
   - Public speaking
   - Psychology
   - Sociology
   - General chemistry, including laboratory
   - Microbiology, including laboratory
   - General biology, including laboratory, or Zoology, including laboratory
   - Human anatomy
   - Human physiology
   - (or combined Human anatomy/Physiology- 5 Semester Hours)
   - Biochemistry or Organic chemistry
   - Electives

   - 3 Semester Hours
   - 3 Semester Hours
   - 3 Semester Hours
   - 3 Semester Hours
   - 3 Semester Hours
   - 6 Semester Hours
   - 3 Semester Hours
   - 8 Semester Hours
   - 3 Semester Hours
   - 3 Semester Hours
   - 3 Semester Hours
   - 4 Semester Hours
   - 3 Semester Hours
   - 3 Semester Hours
   - 12 Semester Hours
Other Recommended Courses:

Organic chemistry laboratory 1 Semester Hour
Anatomy laboratory 1 Semester Hour
Physiology laboratory 1 Semester Hour
Medical terminology 1 Semester Hour
Biochemistry laboratory 1 Semester Hour

Applicants are encouraged to complete their elective course work in the areas of behavioral, physical, and social sciences or humanities. Upon review of a student's record, the Committee on Admissions may require additional course work and testing as a condition of acceptance. In addition, previous clinical experience is highly recommended.

3. All applicants who will not receive a bachelor's degree prior to the time of matriculation are required to submit official scores from the Allied Health Professions Admissions Test (AHPAT), Scholastic Aptitude Test (SAT), or the American College Test (ACT). (SAT and ACT scores are acceptable only if taken as part of the applicant's high school sequence. These test scores must be less than five years old.)

The AHPAT is designed to measure general academic ability and scientific knowledge in the areas of biology, chemistry, verbal ability, quantitative ability, and reading comprehension. Applicants should schedule course work so that they complete biology, chemistry, and algebra courses before taking the AHPAT.

Applicants should take the test no later than November or January prior to the date of expected matriculation. Applications for the AHPAT are available through the Office of Admissions, Nova Southeastern University Physician Assistant Program, or by a written request to:

4. Prior to matriculation, all accepted applicants must submit proof of current certification in Basic Life Support (BLS).

5. All applicants must show evidence of computer skills through course work or self-study prior to the end of the first term. Students may obtain instruction through the Student Microcomputer Laboratory or other training facilities.

6. Applicants who have attended foreign universities or colleges are required to have their academic credentials evaluated for U.S. institution equivalence by either World Education Services or Josef Silney & Associates, Inc., and submit official examination scores of the Test of English as a Foreign Language (TOEFL). Speakers of English as a second language are also required to take the TOEFL.

The Dean is empowered to evaluate the total qualifications of every student and to modify requirements in unusual circumstances.

Application Procedure

The Office of Admissions processes applications on a "rolling" or periodic basis. The application form and a non-refundable fee of $50 should be submitted as early as possible, but no later than January 15 in order to be considered for admission in June. It is in the best interest of prospective students to complete their applications early.

1. A complete application is required before an applicant can be considered. This includes the application form, application fee, a complete set of official transcripts, SAT, ACT, or
AHPAT scores, letters of evaluation, and copies of all professional certifications, registrations, licenses, or relevant credentialing materials.

ALL APPLICATION CREDENTIALS MUST BE RECEIVED BY THE OFFICE OF ADMISSIONS NO LATER THAN MARCH 15

2. Official transcripts of all course work attempted at all colleges and universities must be forwarded, by the institutions attended, to the Office of Admissions, NSU Physician Assistant Program. It is the responsibility of the applicant to ensure that arrangements are made for these transcripts to be sent. A final transcript, covering all of the applicant’s work, must be forwarded to the Office of Admissions prior to matriculation.

3. An evaluation by a pre-professional health advisor or committee is required from the applicant’s undergraduate institution. If an evaluation cannot be provided, three individual letters are required from professors, instructors, health professionals, coworkers, or supervisors, who can provide an evaluation to the Committee on Admissions.

4. A personal interview will be an integral part of the admission process; however, being granted an interview is not a guarantee of admission. It should also be clearly understood that not all applicants will be granted an interview. Those who are selected for an interview will be notified of the date and time of such interview by the Office of Admissions.

Tuition and Fees

The Board of Trustees has established the following tuition and fees, which are subject to change at any time at the Board’s discretion.

1. Tuition - $15,500 for all students for the 1997-98 academic year. A student activities fee of $100 per year is required.

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, due February 15th, under the same terms as the Acceptance Fee.

Dual Admissions Program
Undergraduate/Physician Assistant Program (B.S.)

Nova Southeastern University Health Professions Division has established a dual admissions program with the Nova Southeastern University Farquhar Center for Undergraduate Studies for a select number of highly-motivated, qualified students interested in pursuing both undergraduate and professional studies in the Physician Assistant Program. This allows candidates to receive their Bachelors’ degree in the Physician Assistant Program in a four-year period.

Candidates must maintain a specified grade point average and achieve acceptable scores on the Allied Health Professions Admissions Test (AHPAT). Students will be awarded a B.S. degree upon completion of two years at the Farquhar Center for Undergraduate Studies and two years at Nova Southeastern University College of Allied Health.

For complete information and requirements, contact the Office of Admissions, Farquhar Center for Undergraduate Studies, Nova Southeastern University, 3301 College Avenue, Ft. Lauderdale, Florida 33314.
4. Pre-Registration Fee - $500, due April 15th, 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 two 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.

Requirements for Graduation
In order to be eligible for the B.S. degree in Physician Assistant studies, students shall:

1. Be of good moral character
2. Complete the required curriculum of course work, with a minimum of 161 semester hours
3. Have satisfactorily completed the program of study required for the degree within a minimum overall GPA of 70% in all courses
4. Have satisfactorily met all financial and library obligations
5. Attend in person the rehearsal and commencement program at which time the Bachelor's degree in Physician Assistant Studies is conferred

Course of Study
The Bachelor of Science degree curriculum of the Physician Assistant Program is completed during twenty-four consecutive months following a minimum of two years of undergraduate course work. The program is dedicated to educating Physician Assistant students to provide quality health care in all areas including urban and rural, underserved and minority communities. The comprehensive curriculum is oriented to primary care and prepares the student to practice in a wide variety of clinical settings. All students begin the PA Program in the summer semester. The first year of study consists of basic science, clinical science, behavioral science and related didactic courses. All courses are required and must be successfully completed before advancing to the second year of clinical training. The 12 months of clinical training are composed of eleven rotations: nine required and two electives. Rotations are required in the areas of Family Medicine, Obstetrics and Gynecology, Geriatrics, Emergency Medicine, Pediatrics, Psychiatry, Surgery, and Internal Medicine. The clinical rotations provide a hands-on experience in a variety of community and rural health clinics, teaching hospitals and private practices. Each rotation has assigned readings and learning objectives with a written examination at the end of each rotation. During clinical rotations each student will be under the direct supervision of a licensed physician and will actively participate in patient assessments, manage common medical problems, perform common laboratory procedures and interpret the results. The role of the Physician Assistant requires a high level of expertise and responsibility. Thus, the P.A. applicant must possess the ability and desire to complete a rigorous academic and clinical program and a commitment to continued learning.

Upon successful completion of this Physician Assistant Program the student will be awarded the Bachelor of Science degree in Physician Assistant Studies. Graduates will be eligible to sit for the Physician Assistant National Certifying Examination (PANCE) administered by the National Commission on Certification of Physician Assistants (NCCPA).
## CURRICULUM OUTLINE

### First Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Lecture</th>
<th>Laboratory</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANA 5420</td>
<td>Anatomy</td>
<td>55</td>
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### Second Year

#### Clinical Rotations

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**Total Hours** | **50 Weeks** | **100**
Physician Assistant Courses
(Note: Listed to the right of each entry are lecture clock hours, laboratory clock hours, and semester hours)

Basic Sciences

ANA 5420
Clinical Anatomy
A study of the gross structures of the human body through lectures, video tapes, clinical correlation sessions, laboratory cadaver dissection or prosection, and demonstrations. Integrates topographic and radiographic anatomy to stress the application and importance of clinical anatomy. Assists students to obtain the knowledge of the human anatomy necessary for the practice of the profession.

MIC 5400
Microbiology
Focuses on the relationship of microbes to human disease and the host–immune response. Presents the characteristics and properties of clinically significant bacteria, viruses, fungi and selected parasites, as well as the prevention, control, and diagnostic laboratory tests of their associated specific infectious diseases.

PHS 5400
Physiology
Covers human physiology. Emphasizes clinically relevant physiologic principles of the major organ systems covered in Clinical Anatomy. The focus provides the basis on which to appreciate pathological changes that occur in human physiology in the disease process.

PCO 5300
Biomedical Principles
Covers the physiologic and biochemical bases for drug action. Discusses the basic biochemical pathways in which drugs intervene, such as metabolism, protein, synthesis, and coagulation. The principles of pharmacokinetics including drug absorption, distribution and metabolism are studied and applied to designing dosage regimens.

PCO 5400
Pharmacology I
Understanding the basis for pharmacologic intervention in patient care is the foundation for treatment of disease. This course begins an in-depth study of the pharmacodynamics of drugs used in the automatic nervous, renal, and cardiovascular systems. Focuses on mechanisms of drug action, clinical uses, side effects, contraindications and drug interactions. Additionally, discusses pharmacokinetic considerations for special patient populations.

PCO 5420
Pharmacology II
Continuation of Pharmacology I. Discusses the mechanisms of action, clinical uses, side effects, contraindications, drug interactions and pharmacokinetics of the central nervous, endocrine, respiratory, and GI systems. Studies the antibiotic use in and treatment of cancers.

PCO 5430
Pharmacology III
Continuation of Pharmacology II. Covers many special topics including treatment of HIV, geriatric and neonatal pharmacology, the pharmacological principles of nutrition, over-the-counter agents, toxicology, drugs of abuse, prescription writing, and evaluation of drug literature.

Clinical Sciences

PAC 3000
Physical Diagnosis I
Covers the basic principles and skills required to perform a thorough history and physical examination. Emphasizes normal physical findings; correlates with the clinically oriented anatomy course using a systems approach. Introduces the skills necessary to perform a complete medical interview.
PAC 3100  (20-36-2)  
Physical Diagnosis II  
Covers the essential skills for performing a competent medical interview including comprehensive health history and physical examination. Using skills learned in Physical Diagnosis I, students learn to integrate accurately and record historical and physical findings in a written format. Instructional methods include lecture, class discussion, role playing, supervised clinical experience, and patient simulations.

PAC 3200  (18-36-3)  
Physical Diagnosis III  
Scheduled clinical hours and/or patient simulations provide students with supervised practice of skills learned in Physical Diagnosis II. Integrating previously learned interviewing and physical diagnosis skills with principles from the clinical sciences, students elicit a comprehensive medical history, perform a complete physical examination, formulate an initial diagnostic impression and diagnostic plan. Students are expected to continue progress in recording information in written form and presenting the information orally to colleagues.

PAC 3300  (10-44-3)  
Physical Diagnosis IV  
This is the terminal course in the Physical Diagnosis learning sequence. Students focus on the application of principles and increase their contact time with patients in the clinical setting. Full integration of previously learned interviewing and physical diagnosis skills with principles from clinical medicine is expected. Written documentation and oral presentation of findings are an integral part of course.

PAC 3129  (18-0-1)  
Health Promotion and Disease Prevention  
Through lectures and small group assignments students learn health strategies that can be incorporated in the primary care setting to promote health and prevent disease. Students focus on wellness through preventive interventions and services. Emphasizes the individual's responsibility for one's own health and the community's efforts to protect against disease and environmental hazards. Epidemiology, risk factors, screening tests and community resources are identified with each health issue presented.

PAC 3205  (24-0-2)  
Clinical Problem Solving  
Presents the concepts and skills necessary for developing the differential diagnosis and management plan for clinical problems. Emphasizes the correlation of historical information, physical findings, and pertinent laboratory results to formulate a diagnosis. Through case presentations and medical simulations students utilize knowledge acquired from previous or concurrent didactic courses to develop these skills.

PAC 3110  (90-0-5)  
Clinical Medicine & Surgery I  
First course in a sequence focusing on the common disease entities likely to be encountered by the P.A. student in the primary care setting. Students learn the etiology, clinical manifestations, appropriate diagnostic evaluation and the management of each selected disease entity. The material is presented in organized units by clinical field and includes cardiology, pediatrics, gastroenterology, nephrology, endocrinology, dermatology, pulmonary disease, obstetrics, gynecology, ophthalmology, neurology, hematology, musculoskeletal disorders, emergency medicine, and occupational and infectious diseases.

PAC 3210  (100-10-6)  
Clinical Medicine & Surgery II  
Continuation of Clinical Medicine and Surgery I. Discusses common disease entities of the major organ systems. Lectures cover the primary care aspects of disease evaluation and treatment.
PAC 3310  (80-24-5)
Clinical Medicine & Surgery III
Continuation of Clinical Medicine and Surgery II. Discusses common disease entities of the major organ systems. Lectures cover the primary care aspects of disease evaluation and treatment. Includes laboratory instruction in the fundamentals of surgical technique and patient care. The laboratory practicum introduces students to basic procedures utilized in the clinical setting, such as aseptic technique, operating room protocol, suturing, venipuncture, injection and urethral catheterization.

PAC 3130  (32-0-2)
Clinical Laboratory Medicine
Presents topics in laboratory medical evaluation with an emphasis on the proper utilization of the clinical laboratory, the rationale for selecting common diagnostic tests, interpretation of results, and the correlation between results and disease processes. Tests not available in the primary care setting that are necessary for diagnosis, treatment and patient care are also presented.

PAC 3224  (4-14-1)
Cardiac Simulation Laboratory
(“Harvey”)
Facilitates the clinical approach to the patient with cardiovascular disease. The life-size computerized cardiac patient simulator, Harvey, is used to teach and reinforce the use of cardiac auscultation to evaluate a patient’s cardiovascular status. Teaches basic principles of auscultation. Case presentations with simulated heart sounds help to identify normal heart sounds, murmurs, abnormal heart sounds and their relationship to cardiac diseases.

PAC 5400  (54-0-3)
Clinical Pathophysiology
Builds upon physiology course and provides an understanding of the pathological changes seen in disease states. Pathophysiologic concepts are approached utilizing a major body system/organ approach. Emphasizes the etiology and progression from the normal physiological state to the diseased state with resultant clinical signs and symptoms.

PAC 3002  4-14 (Self Study)-1
Medical Terminology
Use of the medical language is the foundation for appropriate and accurate communication in patient care. This self-study, programmed course in medical language provides introductory lectures to prepare students for the course. Students learn to acquire a sound medical vocabulary, a working knowledge of medical terminology and an understanding of utilization of terminology reference material.

PAC 3229  (18-18-2)
Advanced Cardiac Life Support & Electrocardiography
Focuses on the diagnostic skills used in acute cardiac care. Presents the reading of normal and abnormal ECG. Common cardiac diseases are reviewed highlighting clinical signs, symptoms and ECG tracings. The American Heart Association-approved ACLS program is presented. Current guidelines for acute cardiac care are taught and presented. Laboratory simulation promotes use of the skills learned in lecture.

Behavioral Sciences
PAC 3207  (36-0-2)
Behavioral Issues in Medicine
Presents the most common psychosocial problems encountered by health care professionals. Emphasizes the recognition and understanding of development of these behaviors, including the patient-clinician relationship. Through lectures, class discussions, role playing and case studies, students develop counseling skills, improve communication skills, and learn appropriate intervention and treatment regimens.
PAC 3005 (18-0-1)  
**Epidemiology and Biostatistics**  
Covers the basic methods of epidemiology and biostatistics used in clinical research. Introduces students to the evaluation of diagnostic procedures and the methodology for clinical trials evaluating new treatments. Provides the basic skills on critical reading of medical literature.

PAC 3006 (18-0-1)  
**Health Care Delivery Systems**  
Addresses current issues in the P.A. profession, including the history and future role of P.A.s within the health care system. Introduces the structures and administrative principles in health care organizations; emphasizes the role of the P.A. in health care delivery systems. Topics include third party reimbursement, quality assurance, federal health care programs, home health care, and rural health care.

PAC 3400 (18-0-1)  
**Medical Ethics**  
Through lectures and discussion groups, students will learn the principles and concepts in determining what action is right and what results are good when examining ethical problems in a primary care setting. The approach to solving an ethical dilemma will be emphasized. Topics and situations to be addressed include the impaired supervising physician, P.A.-physician conflicts, patient-P.A. conflicts, euthanasia and the P.A. role, and risk management.

**Senior Rotations**

PAC 4318 (18-0-1)  
**Family Medicine**  
A required eight-week rotation which takes place in an outpatient setting. Its purpose is to teach comprehensive primary care of the individual patient within the family unit. Emphasizes the primary care needs of patients in rural and inner-city communities.

PAC 4311 (18-0-1)  
**Internal Medicine**  
A required eight-week rotation which takes place in outpatient and inpatient settings. Its purpose is to teach the diagnosis, treatment, and management of acute and chronic medical problems seen in the internal medicine practice. Emphasizes the adult non-surgical patient.

PAC 4315 (18-0-1)  
**Emergency Medicine**  
A required four-week rotation which takes place in a hospital-based emergency department. Its purpose is to teach students to recognize, assess, and treat acute and life-threatening clinical problems. Emphasizes common primary care emergencies.

PAC 4303 (18-0-1)  
**Geriatrics**  
A required four-week rotation which takes place in outpatient, inpatient, and long-term care treatment settings. Students learn about the normal and abnormal physiologic changes of aging and their effects on clinical decision making. Emphasizes primary care of the geriatric patient.

PAC 4304 (18-0-1)  
**Obstetrics & Gynecology**  
A required four-week rotation which takes place in inpatient and outpatient settings. Students learn perinatal care and treatment as well as gynecological diagnosis and management. Emphasizes primary care of the female patient including obstetrics.

PAC 4317 (18-0-1)  
**Pediatrics**  
A required four-week rotation which takes place in inpatient and outpatient settings. Students learn about normal and abnormal growth and development, disease prevention, and basic health care in neonates through adolescence. Emphasizes primary care of the pediatric patient.
PAC 4302 Psychiatry
A required four-week rotation which takes place in inpatient and outpatient settings. Students learn to evaluate, diagnose, and treat common acute and chronic psychiatric problems. Emphasizes the disease entities commonly encountered in the primary care setting.

PAC 4313 Surgery
A required four-week rotation which takes place in inpatient and outpatient settings. Students learn to diagnose, treat and manage the surgical patient. Emphasizes surgical entities commonly encountered in the primary care setting.

PAC 4306 HIV
A required two-week sub-rotation which is completed within either the Internal Medicine rotation or the Family Medicine rotation. Students learn to recognize and manage common medical problems associated with HIV infection. Emphasizes primary care of the immunosuppressed patient.

PAC 4308 Elective I
PAC 4309 Elective II
Each four-week elective may be taken sequentially at the same site or separately. Elective rotations provide students with the opportunity to investigate a clinical subspecialty area or gain more experience in a required discipline.

OCCUPATIONAL THERAPY PROGRAM

The Occupational Therapy Program offers two degrees, a Master of Occupational Therapy (M.O.T.) and a Doctor of Occupational Therapy (Dr.O.T.). The M.O.T. is designed so that a student may enter after completing an undergraduate or graduate degree or after completing 90 semester hours of undergraduate work (including 30 semester hours of upper division). The Dr.O.T. is designed for the student who obtains an M.O.T. from Nova Southeastern University or for the practicing occupational therapist who wishes to obtain a professional doctoral degree.

The occupational therapist must be an expert in the knowledge of occupation, its role in health and adaptation, and its use in therapy. Occupational therapy practice requires the therapist to exercise increasingly complex, autonomous decision-making and problem-solving skills in multifactorial situations. The therapist must, therefore, be a critical thinker, capable of evaluating and synthesizing information from a variety of sources about a wide range of phenomena. Finally, the therapist should be a reflective practitioner able to evaluate his or her own clinical reasoning.

Accreditation
The Occupational Therapy Program is fully accredited by the Accreditation Council for Occupational Therapy Education (ACOTE), 4720 Montgomery Lane, Bethesda, MD 20814, (301) 652-2682.

Master of Occupational Therapy
Admission Requirements
The Master of Occupational Therapy degree program is designed for students with a strong liberal arts background who have demonstrated an ability to work with people and a concern for the welfare of others. The program accommodates two routes of admission and specific prerequisites have been established for each.

1. Prior to matriculation, applicants with an undergraduate or graduate degree in another field at a regionally accredited college or university must complete the following prerequisites:
Abnormal psychology 3 semester hours
Biology, Anatomy, or combined Anatomy/Physiology, including laboratory 4 semester hours
Human growth and development (must cover infancy through aging) 3 semester hours
Statistics 3 semester hours
Must demonstrate basic computer, word processing competency

2. Prior to matriculation, applicants who possess a minimum of 90 semester hours of baccalaureate study with a minimum of 30 semester hours of upper division work, but who do not hold a baccalaureate degree, must complete the following prerequisites:

Abnormal psychology 3 semester hours
Biology, Anatomy, or combined Anatomy/Physiology, including laboratory 4 semester hours
Human growth & development (must cover infancy through aging) 3 semester hours
Statistics 3 semester hours
Humanities 9 semester hours (art, music appreciation, literature, foreign language, history, philosophy, religion)
English composition 6 semester hours
Social science 3 semester hours (anthropology, sociology, geography, political science, government, economics)
Must demonstrate basic computer, word processing competency

Recommended Prerequisites For All Applicants:

Ethics 3 semester hours
Public speaking 3 semester hours
Physics, including laboratory 4 semester hours
Theories of Personality 3 semester hours
Sociology/Anthropology 3 semester hours
Logic 3 semester hours
Physiology 3 semester hours

Additional Requirements For all Applicants:

1. Students must have a cumulative GPA of 2.5 or higher on a four-point scale. Students must earn a 2.0 or better in each required course.
2. Applicants are required to submit official scores from the Graduate Record Examination (GRE). These test scores must be less than five years old.
3. Foreign students must take the Test of English as a Foreign Language (TOEFL) and obtain a score of 550 or higher.

Application Procedure
Candidates for admission must submit or be responsible for submission of:

1. A completed application form along with a $50 non-refundable application fee
2. Three letters of evaluation from professors, work supervisors, or volunteer supervisors
3. Official GRE scores
4. Official college transcripts from all undergraduate or graduate institutions attended, sent to Nova Southeastern University Occupational Therapy Office of Admissions directly from the institutions
5. Test of English as a Foreign Language (TOEFL) scores if a foreign student

Upon receipt of the completed application and required credentials, the Committee on Admissions will select applicants to be interviewed. Those selected will be notified in writing of the time and place. No applicant will be admitted to the Occupational Therapy
Program without an interview, but an invitation to appear for an interview should not be construed by the applicant as evidence of final acceptance. Notice of acceptance or other action by the Committee on Admissions will be on a "rolling" or periodic schedule. Early completion of the application is, therefore, in the best interest of the student.

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

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

or

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

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

Dual Admissions Program
Undergraduate/Occupational Therapy Program
Nova Southeastern University Health Professions Division has established a dual admissions program with the Nova Southeastern University Farquhar Center for Undergraduate Studies for a select number of highly-motivated, qualified students interested in pursuing both undergraduate and professional studies in Occupational Therapy. This allows candidates to receive their master's degree in Occupational Therapy in a 5 1/2 year period. Candidates must maintain a specified grade point average. Students will spend three years in the Undergraduate School and will be awarded a bachelor's degree from the Farquhar Center upon completion of the first year of education at Nova Southeastern University's College of Allied Health. Students will receive the Master of Occupational Therapy degree after completion of the Occupational Therapy M.O.T. program.

For complete information and requirements, contact the Office of Admissions, Farquhar Center for Undergraduate Studies, Nova Southeastern University, 3301 College Avenue, Ft. Lauderdale, Florida 33314.

Tuition and Fees
1. Tuition: $15,500 for Florida residents and $17,500 for out-of-state students for the 1997-98 academic year. 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 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 case of a withdrawal. It is payable within two weeks of an applicant's acceptance.
3. Deposit: $400, due February 15, under the same terms as the Acceptance Fee.
4. Pre-Registration Fee: $500, due April 15, under the same terms as the Acceptance Fee.
5. Student Activities Fee: $100, payable at each fall registration.

The summer and fall semesters' 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 University is important because of the limited number of positions available in each class. Applicants should have specific plans for financing 2 1/2 years of professional education. This should include tuition, living expenses, books, equipment, internship, travel, and miscellaneous expenses.

Requirements for Graduation

In order to be eligible for the M.O.T. degree, students shall:

1. Be of good moral character
2. Have satisfactorily completed the program of study required for the degree (121 semester hours) with a minimum of 70% in each course
3. Have satisfactorily met all financial and library obligations
4. Successfully complete the clinical internships within 24 months of completion of didactic courses
5. Attend in person the rehearsal and commencement program at which time the degree is conferred

Course of Study

The academic discipline of occupational therapy draws upon and integrates a wide range of interdisciplinary topics. Theories that illuminate the understanding of occupation in human life, the role of occupation in health and adaptation, and the art and science of using activities as therapeutic agents create the foundation for the discipline.

Curriculum Outline for Master In Occupational Therapy

First Year

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First Year

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First Year

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**Second Year**

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</table>

**Total Semester Hours**

* Each 40 hours/week for 12 weeks

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**Doctor of Occupational Therapy**

The Doctor of Occupational Therapy is conferred in recognition of a demonstrated ability for highly-skilled, specialized professional practice within a targeted delivery system. A minimum of 90 semester credits is required including dissertation of original clinical research. A maximum of 36 credits may be transferred from other graduate programs with advisory committee approval.

**Requirements for Admission**

1. Applicants must have either a bachelor's or a master's degree in Occupational Therapy from a regionally accredited university or college and be eligible for a Florida Occupational Therapy license.
2. Preference for admission will be given to students with a cumulative GPA of 3.0 or higher on a four-point scale for the last two years of their most recent degree.
3. Applicants are required to submit official scores from the Graduate Record Examination (GRE). A score of 1600 for all three areas is preferred.
4. Foreign students must take the Test of English as a Foreign Language (TOEFL) and obtain a score of 550 or higher.
Application Procedure
Candidates for admission must submit or be responsible for submission of:

1. A completed application form along with a $50 non-refundable application fee
2. Three letters from persons who can evaluate the applicant's capability for doctoral study
3. Official GRE scores; TOEFL scores, if appropriate
4. Official college transcripts from all undergraduate and graduate institutions attended, sent directly to the NSU Occupational Therapy Office of Admissions
5. Official American Occupational Therapy Certification Board (AOTCB) certification confirmation

Upon receipt of the completed application and required credentials, the Committee on Admissions will notify, in writing, applicants who are selected for interview. No applicant will be admitted to the Occupational Therapy Program without an interview, but an invitation to appear for an interview should not be construed by the applicant as evidence of acceptance. Notice of acceptance or other action by the Committee on Admissions will be on a "rolling" or periodic schedule. Early completion of the application is therefore in the best interest of the student.

Tuition and Fees
The Board of Trustees has established the following tuition and fees, which are subject to change at any time at the Board's discretion:

1. Tuition: $5,000 each semester for full-time students (7 to 12 credit hours) and $2,500 each semester for part-time students (6 credit hours or less) for the 1997-98 academic year.

A student activities fee of $100 each year is required.

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

3. Deposit: $400, due sixty days prior to registration, under the same terms as the Acceptance Fee.

4. Pre-registration Fee: $500, due thirty days prior to registration, under the same terms as the Acceptance Fee.

The first term'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 their professional education. This should include provision for tuition, living expenses, books and equipment, computer, travel 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.

Requirements for Graduation
In order to be eligible for the Dr. O.T. Degree, students shall:

1. Be of good moral character
2. Complete a minimum of 90 credits of
course work
3. Have satisfactorily completed the program of study required for the degree with a minimum overall GPA of 80%
4. Successfully complete candidacy examinations
5. Complete Academic Residency
6. Complete Clinical Residency
7. Successfully defend the dissertation
8. Submit documented evidence that dissertation research will be presented or published
9. Have satisfactorily met all financial and library obligations
10. Attend in person the rehearsal and commencement program at which time the degree is conferred

Course of Study
1. Students holding a master's degree in occupational therapy with transferable credit:
   Semester Hours
   Required core courses 15
   Electives: selected with Advisory Committee approval to complement stated clinical specialization 15-27
   Dissertation & Clinical Residency 12-24
   Sub-total 54
   Master's Degree (transferred) 36
   Total 90

2. Students holding a baccalaureate degree in occupational therapy:
   Semester Hours
   Required core courses 15
   Research/Statistics Electives 6
   Electives: selected with Advisory Committee approval to complement stated clinical specialization 45-63
   Dissertation & Clinical Residency 12-24
   Total 90

3. Students who have a baccalaureate degree in another field or who have 90 semester hours (60 lower division and 30 upper division), may apply for admission to the Doctoral program. These students must complete the 36-credit MOT degree requirements and continue with an additional 54 credits of graduate study. Students admitted with a baccalaureate in another field must complete:

   Semester Hours
   Equivalent of entry-level master's program, including six months of internship 36
   Statistics/Research 6
   Required core courses 15
   Electives 15-27
   Dissertation & Clinical Residency 12-24
   Total 90

Occupational Therapy Courses
(Note: Listed to the right of each entry are lecture clock hours, laboratory clock hours, and semester hours.)

ANA 5516  (6-3-7)
Gross Anatomy
Details human anatomy. Laboratory activities consist of student teams studying prosected cadavers, sections, bone sets, videotapes, radiographs, models.

ANA 5533  (4-2-3)
Neuroanatomy
Anatomy of central, peripheral nervous systems. Laboratory activities consist of student teams studying prosected cadavers, sections, radiographs, models.

OCT 5011  (8-12-6)
Human Occupation Across the Life Span
Introduces activities that influence engagement, motivation, health, independence of individuals from infancy to old age. Percep-
tion, observation, appreciation, analysis, prediction, selection, presentation of occupations that exhibit appropriateness for individuals as determined by age or interest are included.

**OCT 5013**  
(1-2-2)  
**Creative Occupations**  
Focuses on therapeutic value of creativity. The meaning of significance, involvement, challenge, success, competence are experientially explored. Students learn to structure, adapt, plan, present, assess activities for use with clients.

**OCT 5015**  
(1-2-2)  
**Applied Occupations**  
Experientially based course looks at influence of culture on human occupations. Students explore cultural impact, meaning, contributions of world view ritual to everyday life. Focus on adaptations, therapeutic use of occupations to address client problems. Culture, background, environment considered.

**OCT 5101**  
(4-0-2)  
**Historical and Theoretical Foundations of Occupational Therapy**  
Social-cultural heritage of occupational therapy, the people who formulated the ideas and concepts on which profession is based. Students explore relationship between philosophical, theoretical, knowledge bases of occupational therapy.

**OCT 5121**  
(5-0-5)  
**Clinical Signs and Symptoms I**  
Problems presented in motor, sensory, cognitive, interpersonal, self-care, productivity, leisure areas that may be seen by occupational therapists as a result of pathophysiological dysfunction. Class parallels content presented in Gross Anatomy.

**OCT 5123**  
(4-0-4)  
**Clinical Signs and Symptoms II**  
Continuation of Clinical Sign and Symptoms I.

**OCT 5132**  
(3-0-3)  
**Current Issues in Occupational Therapy I**  
Focus on occupational therapist as administrator of clinical services. Includes systems theory, management theory, techniques.

**OCT 5133**  
(3-0-3)  
**Current Issues in Occupational Therapy II**  
Continuation of Current Issues in Occupational Therapy I.

**OCT 5174**  
(3-0-3)  
**Research Methods for Occupational Therapy I**  
Exploration of research methods applicable to the practice of occupational therapy. Focuses on evaluation data as bases for research. Prerequisites: Statistics

**OCT 5175**  
(3-0-3)  
**Research Methods for Occupational Therapy II**  
Continuation of Research Methods for Occupational Therapy I.

**OCT 5243**  
(6-8-10)  
**Occupational Therapy Pediatric Practice**  
The practice of occupational therapy for children and infants, including evaluation and treatment techniques, treatment, discharge planning, working with families. Lecture, laboratory, fieldwork level I experience. Prerequisites: OCT 5121, OCT 5822, OCT 5123, OCT 5824, OCT 5015.

**OCT 5343**  
(6-8-10)  
**Occupational Therapy Mental Health Practice**  
The practice of occupational therapy in mental health/psychiatry, including application of evaluation techniques, treatment, discharge planning, working in community, acute care environments. Lecture, laboratory, fieldwork level I experiences. Prerequisites: OCT 5121, OCT 5822, OCT 5123, OCT 5824, OCT 5015.
Psychiatry
Presents psychiatric interview, personality development, somatic therapies and psychopharmacology, major psychiatric disorders using the DSM IV, psychotherapy as a base for mental health practice.

Occupational Therapy Physical Dysfunction/Work Practice
The practice of occupational therapy as it relates to the treatment of the physically disabled including work-related injuries. Focus on biomechanical, neurological basis of treatment. Treatment techniques, treatment and discharge planning. Lecture, laboratory, fieldwork experience. Prerequisites: OCT 5121, OCT 5822, OCT 5123, OCT 5824, OCT 5015

Occupational Therapy Geriatric Practice
The practice of occupational therapy for the aged, including evaluation, treatment techniques including treatment planning, discharge planning, working with families. Lecture, laboratory, fieldwork level I experience. Prerequisites: OCT 5121, OCT 5822, OCT 5123, OCT 5824, OCT 5015

Data Collection and Assessment I
Occupational evaluation, assessment of motor, sensory, cognitive, interpersonal, intrapersonal, self-care, productivity, leisure areas. Class work parallels content presented in Gross Anatomy and Clinical Signs and Symptoms.

Data Collection and Assessment II
A continuation of Data Collection and Assessment I.
OCT 6109 (3-0-3)
The Occupational Therapist and Cultural Diversity
Examination of varying cultures and their related health tradition. Practical application of intervention strategies appropriate for members of varying ethnic, cultural groups. Emphasizes African American, Hispanic, Asian traditions.

OCT 6113 (3-0-3)
Occupational Therapy and the Americans with Disabilities Act
Analysis of the impact of the ADA on practice of occupational therapy in various settings. Students explore new challenges that therapists face as ADA legislation influences goals, changing roles for the profession.

OCT 6130 (3-0-3)
Health Care Reform
Students explore the global issues of health care reform examining the theories, methodologies of reform, the impact of each upon occupational therapy, and how practitioners can effect change.

OCT 6132 (3-0-3)
Advanced Legal and Ethical Issues In Health Care
Legal, ethical issues affecting health care delivery, issues of confidentiality, reimbursement, right to die, advanced directives, ethical dilemmas, OBRA, worker's compensation, Public Law 94-142, documentation, employer-employee independent contractor relationship, malpractice issues, expert witness testimony.

OCT 6160 (3-0-3)
Special Topics in Occupational Therapy
This seminar for doctoral students only investigates timely topics of critical interest to health care providers.

OCT 6170 (3-0-3)
Research Methods for Occupational Therapy
Research methods applicable to practice of occupational therapy. Includes research design, methodology, analysis. Prerequisite of 6 semester hours of statistics.

OCT 6171 (3-0-3)
Qualitative Research Methods for Occupational Therapy
Study application of qualitative methods useful in documentation and evaluation of patient treatment. Students design a qualitative study for their area of clinical specialization.

OCT 6173 (3-2-4)
Quantitative Measures for Occupational Therapists
Statistical presentation and interpretation, sampling, probability, significance and statistical inference. Includes computer analysis of statistical data.

OCT 6211 (3-0-3)
Feeding Assessment and Intervention for the Child With Central Nervous System Dysfunction
Covers normal acquisition of oral-motor, feeding skills; assessment and treatment of feeding problems. Addresses transition from tube feeding to oral feeding.

OCT 6240 (3-0-3)
Functional Assessment and Treatment Strategies for the Infant and Young Child with Visual Impairment
OCT 6241 (3-0-3)
Pediatric Occupational Therapy
Services in the Community
Cultural, social, environmental influences upon child with disability, his/her family; relationship of these influences to the identification, evaluation, treatment process. Service delivery models assessed, analyzed for applicability to children in urban and rural areas. Includes field experiences.

OCT 6242 (2-3-3)
Neurodevelopmental and Sensory Integration Treatment for the Infant and the Young Child
Covers neuroscience basis for NDT and SI treatment approaches with children. Emphasizes the combined treatment effect. Includes laboratory experiences with treatment for young children, instruction to family members for total child management.

OCT 6243 (3-0-3)
School Based Occupational Therapy: New Models of Practice
Changes in practice of school based therapy, new treatment strategies; influence of law, funding, service delivery model on treatment of children in the educational system.

OCT 6301 (3-0-3)
History of Occupational Therapy in Mental Health
Historical antecedents of mental health practice in occupational therapy, contemporary practice models from historical perspective with projections of relevance of future practice models relevant to changes in health care delivery system.

OCT 6302 (3-0-3)
Contextual Analysis of Occupational Therapy Performance in Mental Health
Study of human, nonhuman environments related to occupational performance in mental health. Students develop methodology for environmental analysis applicable for clinical practice.

OCT 6321 (2-2-3)
Occupational Therapy Assessments for Mental Health Practitioners
Evaluation of occupational therapy evaluation tools including their theoretical underpinnings. Investigation of methodologies that more effectively assess occupational performance components related to mental health.

OCT 6441 (3-0-3)
The Occupational Therapist Rehabilitates the Worker
Evaluation, treatment strategies for injured workers; development of intervention programs, practice, reimbursement issues.

OCT 6442 (2-2-3)
Injuries of the Hand
Investigates the advanced management of complex hand injuries. Includes advanced splinting and mobilization techniques.

OCT 6603 (3-0-3)
Pharmacological Impact On Neurological Function of the Aged
Impact of pharmacological treatments, interaction of multiple pharmacological treatments in the elderly. Study of signs, symptoms of drug-induced toxicity in patients. Strategies to assist elderly to monitor medications and understand impact of medications on functional performance.

OCT 6751 (1-4-3)
Rural Health Issues in Rehabilitation
Course for advanced students who wish to practice in rural environments. Includes a significant practicum experience in AHEC sites.

OCT 6792 (2-2-3)
The Occupational Therapist As Injury Prevention Consultant
Applies principles of occupational therapy theory and practice to injury prevention in industry. Students critically examine various work sites and prevention programs. Stresses ergonomic principles.
OCT 6820 (2-2-3)
**Evaluative Procedures For Occupational Therapy I**
Study of design, selection, evaluation, construction of measuring instruments. Prerequisites: Statistics.

OCT 6821 (3-0-3)
**Evaluative Procedures For Occupational Therapy II**
Investigation of evaluative procedures appropriate for specialized areas of practice, the development of new evaluative procedures for specific target populations.

OCT 6831 (3-0-3)
**The Occupational Therapy Consultant**
Investigates theories, practice, principles of occupational therapy consultation in various practice areas. Students address system diagnosis, assessment, team building, decision making.

OCT 6848 (2-2-3)
**Closed Head Injury**
Advanced intervention techniques applicable for patients with severe head injury. Includes clinical experiences with evaluation indicators for recovery.

OCT 6860 (3-0-3)
**Leadership Seminar**
Study and application of current and emerging perspectives on leadership. Examination of the history of leadership in the profession, and of areas of need and opportunity for leadership now.

OCT 6890 (0-0-(1-3))
**Independent Study**
Individualized study under the supervision of assigned instructor. Requires permission of graduate coordinator.

OCT 6911 (1-4-3)
**Functional Performance and Aging Process**
Occupational performance components, their impact on functional activity of the elderly, strategies to maintain and optimize independence in the elderly. Students are assigned to an elderly family which they follow and serve as advocate for over a two-semester sequence. Includes field experience.

OCT 7950 (0-0-(6-12))
**Clinical Residency**
One-year supervised clinical practice in a setting approved by student's supervisory committee. Placement must fulfill established parameters for level of practice.

OCT 7970 (0-0-(6-12))
**Doctoral Dissertation**
Supervised, original clinical study of occupational therapy evaluation, intervention. Prerequisite: admission to candidacy.
PHYSICAL THERAPY PROGRAM

The physical therapist is a health care professional who diagnoses and treats movement dysfunction that results in physical impairment and disability at any time during a person's life span. In addition to providing direct patient care services, physical therapists perform as administrators of physical therapy services, educators, and consultants. They screen people for potential risk for movement dysfunction in order to prevent impairment and disability. They also engage in critical inquiry to conduct and review research.

Physical therapists work in a wide range of settings including acute and sub-acute care hospitals, rehabilitation centers, outpatient clinics, home health, skilled nursing facilities, school systems, and industrial settings. Physical therapists may work as employees of health care systems, may independently contract their services, or own and manage a private practice. In any setting, for every patient, the physical therapist performs a history and physical examination, conducts assessments to determine a diagnosis, selects the appropriate physical therapy interventions to treat the patient, and monitors the effectiveness of treatment.

Physical therapists are licensed in all states and may practice without physician referral in over half of them. They are integral members of health care teams in a variety of service systems who serve to improve and maintain the quality of life for millions of people. Over 900,000 people a day are helped by physical therapists to restore health, alleviate pain, and prevent the onset of disease.

The mission of the Nova Southeastern University Physical Therapy Program is to prepare physical therapists as primary care providers. This means that the physical therapist is a primary care provider who stands beside other health care providers, in any setting, in the diagnosis and treatment of movement dysfunction.

Accreditation Status

The Physical Therapy Program was granted Candidate for Accreditation status by the Commission on Accreditation of Physical Therapy Education (CAPTE) of the American Physical Therapy Association in November, 1994. Candidacy is not an accreditation status nor does it assume eventual accreditation. Candidate for Accreditation is a status of affiliation with CAPTE which indicates the program is progressing toward accreditation. The final accreditation process is retroactive; therefore, the final decision on accreditation of the Program will occur in fall, 1996, upon completion of the curriculum for the first time and after an on-site review visit in July, 1996.

Master of Physical Therapy

Requirements for Admission

The Master of Physical Therapy program selects students based on prior academic performance, education/work experience, references, group interview score, written application and letters of evaluation.

1. Prior to acceptance, applicants must hold a baccalaureate degree with a cumulative GPA of 2.5 or better on a four-point scale.
2. Students must earn a 2.0 or better on a four-point scale in the following required course work:

- English 6 semester hours
- Oral communications 3 semester hours
- Mathematics 6 semester hours
- Humanities (art, music, dance, literature, foreign language, philosophy) 9 semester hours
- Social sciences (sociology, geography, history, political science, government, economics) 9 semester hours
- Psychology 6 semester hours

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Human growth and development
(must cover infancy through aging) 3 semester hours
Biology including laboratory (human anatomy and physiology is recommended) 8 semester hours
Chemistry including laboratory 8 semester hours
Physics including laboratory 8 semester hours
(Biology, Chemistry and Physics must be taken in their departments. No applied or modified science courses will be accepted.)

Recommendations
It is recommended that applicants demonstrate evidence of computer skills through course work or self-study, and evidence of ability to communicate verbally in a foreign language (Spanish is recommended) through course work, self-study, or CLEP examination.
Upon review of a student's individual record, the Committee on Admissions may require additional course work and testing as a condition of acceptance.
The Dean is empowered to evaluate the total qualifications of every student and to modify requirements in unusual circumstances.

Application Procedure
Candidates for admission must submit:
1. A completed application form along with a $50 non-refundable application fee
2. Three letters of evaluation from individuals, other than relatives, such as faculty, co-workers, health care providers, work or volunteer supervisors. At least one completed evaluation form must be from a physical therapist. Evaluations should be submitted on forms provided and not submitted in the form of a letter
3. Official scores from the Allied Health Professions Admissions Test (AHPAT) or the Graduate Record Examination (GRE). These test scores must be less than five years old
4. Physical Therapy Experience form
5. Official college transcripts from all undergraduate or graduate institutions attended, sent to the Office of Admissions, NSU Physical Therapy Program, directly from the institutions
6. Copies of all professional certifications, registrations, licenses or other relevant credentials

Upon receipt of the completed application and required credentials, the Committee on Admissions will select those applicants to be interviewed. Those selected will be notified in writing of the time and place. All applicants who are eventually accepted into the program must be interviewed. An invitation to appear for an interview should not be construed by the applicant as evidence of acceptance.
Applications may be submitted at any time; however, only applicants who have submitted all application credentials (all transcripts, evaluation forms, physical therapy experience form, etc.) prior to February 1st will be considered for admission into the fall class of the same year. Notice of acceptance or other action by the Committee on Admission will be on a "rolling" or periodic basis when the interview is completed. Early completion of the application is, therefore, in the best interest of the student because of the limited number of positions available in the class.

Dual Admissions Program
Undergraduate/Physical Therapy Program
Nova Southeastern University Health Professions Division has established a dual admissions program with the Nova Southeastern University Farquhar Center for Undergraduate Studies for a select number of highly-motivated, qualified students interested in pursuing both an undergraduate degree and professional studies in Physical Therapy.
Candidates must maintain a specified grade point average and achieve acceptable scores on the Allied Health Professions Admissions Test (AHPAT) or the Graduate Record Examination (GRE).

Students will be awarded a bachelor's degree from the Farquhar Center upon completion of degree requirements. Students will receive the Master of Physical Therapy degree after two years of training at Nova Southeastern University College of Allied Health.

For complete information and requirements, contact the Office of Admissions, Farquhar Center for Undergraduate Studies, Nova Southeastern University, 3301 College Avenue, Ft. Lauderdale, Florida 33314.

**Tuition and Fees**

1. **Tuition:** $17,000 for Florida residents and $19,500 for out-of-state students for the 1997-98 academic year. 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 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 case of a withdrawal. It is payable within two weeks of an applicant's acceptance.

3. **Deposit:** $400, due March 15, under the same terms as the Acceptance Fee.

4. **Pre-Registration Fee:** $500, due May 15, under the same terms as the Acceptance Fee.

5. **Student Activities Fee:** $100, payable at each fall registration.

The summer and fall semesters' 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 University is important because of the limited number of positions available in each class. Applicants should have specific plans for financing two years of professional education. This should include tuition, living expenses, books, equipment, internship, travel, and miscellaneous expenses.

**Requirements for Graduation**

In order to be eligible for the M.P.T. degree, students shall:

1. Be of good moral character
2. Complete a minimum of 90 semester hours of course work
3. Have satisfactorily completed the program of study required for the degree within a minimum grade of 70% in each course
4. Have satisfactorily met all financial and library obligations
5. Successfully complete the Tier I rotation and the Tier II clinical internship
6. Successfully complete a critical inquiry research project
7. Attend in person the rehearsal and commencement program at which time the degree is conferred
**Course of Study**

The physical therapy program at Nova Southeastern University is a full-time, entry-level master's degree program that is completed in two years. Students are admitted in August of each year. The two-year program includes 20 weeks of full-time clinical practice at the end of the on-campus work. While on campus, student learning experiences occur in a problem-based format that uses case studies as the basis for instruction, as well as through patient care experience in a clinical setting. Faculty members team-teach the physical therapy courses.

**CURRICULUM OUTLINE**

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<td><strong>Fall Semester</strong></td>
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<td>MPT 6614</td>
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<td>PHT 6612</td>
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<td>PHT 6613</td>
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<td>PTL 6612</td>
<td>Physical Therapy Interventions Practice I</td>
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<tr>
<td>PHT 6622</td>
<td>Diagnosis II</td>
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<td>PHT 6623</td>
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</table>
Physical Therapy Courses (Master's Degree)
(Note: Listed to the right of each entry are lecture clock hours, laboratory clock hours, and semester hours.)

ANA 5516 (6-4-7)  
Gross Anatomy  
Anatomy of the trunk, extremities. Laboratory consists of student teams’ study of prosected cadavers, sections, bone sets, videotapes, radiographs, models.

ANA 5633 (3-2-3)  
Neuroanatomy  
Anatomy of the central, peripheral nervous systems. Laboratory consists of student teams’ study of prosected cadavers, sections, videotapes, radiographs, models.

MPT 6614 (8-0-4)  
Managing Quality in Physical Therapy I  
Application of management skills, perspectives in treatment, consultation, education, training, public health environments. Ethical, legal decisions in provision of services, utilization of human resources to improve quality, manage risks in a cost effective manner with consideration for public welfare. Small group discussions, projects presentations. Guidance of research project continues.

MPT 6622 (8-0-2)  
Managing Quality in Physical Therapy II  
Continuation of Managing Quality in Physical Therapy I

MVS 5612 (8-0-4)  
Movement Science  
Analysis, assessment of normal human movement including gait through integrated study of exercise physiology, kinesiology, neurophysiology, mind/body concepts, followed by analysis, assessment of abnormal human movement including gait deviations through integrated study of cardiopulmonary pathology, pathokinesiology, neurological pathology. Case studies.

MVS 5633 (6-0-3)  
Human Movement Case Studies  
Application of concepts of movement science to case studies conducted as independent study concurrent with Movement Science. Written case studies, oral presentations.

PHT 5613 (0-6-3)  
Introduction to Patient Data Base I  
Application of differential diagnosis to history taking, patient interview in laboratory practice. Application to physical examination of surface anatomy, palpation, manual muscle testing, goniometry, vital signs in laboratory practice. Small group work paralleling content as presented in Clinical Signs and Symptoms.

PHT 5615 (5-0-5)  
Clinical Signs and Symptoms of Dysfunction I  
Detailed discussion of pathophysiology. Focus on clinical signs, symptoms as basis for differential diagnosis by physical therapists.

PHT 5622 (0-6-2)  
Introduction to Patient Data Base II  
Continued application of differential diagnosis to history taking, patient interview in laboratory practice. Application of surface anatomy, palpation, manual muscle testing, goniometry, neurological, reflex testing to physical examination in laboratory practice. Small group work paralleling content presented in Gross Anatomy, Neuroanatomy, Clinical Signs and Symptoms.
Clinical Signs and Symptoms of Dysfunction II
Continued detailed discussion of pathophysiology with subjects paralleling topics in Gross Anatomy, Neuroanatomy. Focus on clinical signs, symptoms as basis for differential diagnosis by physical therapists.

Physiological Foundations of PT Interventions
Physiology of physical agents, mechanical modalities, therapeutic exercise, functional training, manual therapy, electrotherapeutic modalities as related to treatment of movement dysfunction. The foundation for PT Interventions courses to follow.

Making professional judgements based on assessments, history, physical examination to determine diagnosis. Documentation of data collected with focus problems of the cardiopulmonary, integumentary, circulatory, reproductive, gastrointestinal systems. Emphasizes patient participation in goal setting with the physical therapist. Problem solving, small group laboratories. Guidance of research project continues.

Determination of effectiveness, efficient use of therapeutic procedures, techniques, physical agents, performance activities commonly used by physical therapists in treatment of impairment and disability-related dysfunction of the cardiopulmonary, integumentary, circulatory, reproductive, gastrointestinal systems. Selection of interventions to establish a care plan for accomplishing desired physiological, functional outcomes.

Diagnosis II
Continuation of Diagnosis I.

Physical Therapy Interventions II
Continuation of Physical Therapy Interventions I, as applied to the musculoskeletal system.

Diagnosis III
Continuation of Diagnosis II.

Physical Therapy Interventions III
Continuation of Physical Therapy Interventions II, as applied to the neuromuscular system.

Practice I
Practice of common physical therapy procedures, techniques will include therapeutic exercise, physical agents, electrotherapy, cardiac rehabilitation, and other therapy, for problems identified in Diagnosis I. Emphasizes teaching and learning, evaluation of the efficacy of interventions, skill development.

Physical Therapy Interventions Practice II
Continuation of Physical Therapy Interventions Practice I, for problems identified in Diagnosis II.

Physical Therapy Interventions Practice III
Continuation of Physical Therapy Interventions Practice II, for problems identified in Diagnosis III.
### Doctor of Science in Physical Therapy

#### Introduction

A strong need for a doctoral program to encourage the professional growth of physical therapists has been identified. With few exceptions, all universities offering doctoral degrees for physical therapists offer them in other disciplines. As our health care delivery system changes and our knowledge base broadens, it becomes important for licensed physical therapists to continue their formal studies to become master clinicians and to assume roles as consultants, educators, researchers and health care leaders.

Nova Southeastern University's doctoral program in physical therapy addresses these needs in a curriculum which will prepare these master clinicians to become leaders of the profession.

#### Program Outcomes

Graduates of the program will be able to:

- practice with advanced competencies in any practice setting
- serve as change agents in organizations
- negotiate and advocate for patients, self and others for the provision of efficient, effective health care services
- educate patients, students, peers and other health care providers in order to accomplish treatment goals and the goals of the physical therapy program
- consult with organizations for the development and improvement of health care services
- contribute to physical therapy practice through clinical research
Curriculum Overview

The Doctor of Science in Physical Therapy requires 90 semester hours beyond the professional physical therapy degree. At least 60 semester hours must be taken at Nova Southeastern University. Requirements include satisfactory completion of all courses which include seminars, independent study, and a Project in Advanced Clinical Competency (PACC). Course work is divided into several organizational areas, with listed courses assigned to each area. Courses in other fields will be evaluated by the Committee on Admissions as to whether they meet the requirements.

Semester Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>Issues in the Profession of Physical Therapy</td>
<td>6</td>
</tr>
<tr>
<td>The Physical Therapist and Critical Inquiry</td>
<td>9</td>
</tr>
<tr>
<td>Physical Therapist as Educator</td>
<td>9</td>
</tr>
<tr>
<td>Physical Therapist as Consultant</td>
<td>6</td>
</tr>
<tr>
<td>Physical Therapist as Manager</td>
<td>12</td>
</tr>
<tr>
<td>Project in Advanced Clinical Competency</td>
<td>12</td>
</tr>
<tr>
<td>Advanced Clinical Competency Tracks: Pediatrics, Geriatrics, Cardiopulmonary, Electrophysiologic, Orthopedics, Sports Medicine, Neurologic, and others as they are developed</td>
<td>36</td>
</tr>
<tr>
<td>TOTAL</td>
<td>90</td>
</tr>
</tbody>
</table>

Courses will be conducted in regular sessions using various formats or as independent study under close faculty supervision. Faculty and students are expected to communicate by computer modem, fax, or phone when not in the classroom.

Students may also elect to earn a Master of Public Health (M.P.H.) degree concurrently. See section of Master of Public Health in this catalog.

Tuition and Fees

Students may enroll as full-time students (12 credits/term) or as part-time students (6 credits/term). Full-time tuition is $17,000/year (3 terms); part-time tuition is $8,500/year (3 terms). Students are enrolled in January of each year. A $100 Student Activities Fee is due at each fall registration.

Requirements for Admission

1. Applicants must be licensed physical therapists who are graduates of schools accredited by the Commission on Accreditation of Physical Therapy Education. Graduates of Physical Therapy schools in other countries who are licensed in the United States are also eligible with review of academic credentials by an appropriate agency and review of TOEFL scores.

2. Selection of students for the Physical Therapy Program is based on performance during an interview, prior academic performance, clinical experience, and references. We seek students who have qualities such as assertiveness, initiative, leadership, self-understanding, openness, strong communication skills, and who are critical thinkers. Students must also be emotionally stable team players.

3. Applicants must hold at least a bachelor's degree with a cumulative GPA of at least 2.75 on a four-point scale.

4. Completion of either the Graduate Record Examination (GRE) or Miller Analogy Test (MAT).

The Dean is empowered to evaluate the total qualifications of every student and to modify requirements in unusual circumstances.
Application Procedures

Applicants must submit:
1. A completed application form along with a non-refundable application fee of $50
2. Official transcripts from all undergraduate, professional, and graduate institutions attended, sent to the Office of Admissions, NSU Physical Therapy Program, directly from the institution
3. Three letters of evaluation from persons who can evaluate the applicant's performance as a physical therapist and/or potential for doctoral studies
4. Copies of all physical therapy licenses, professional certifications, registrations, or other relevant credentials
5. Official scores from the GRE or MAT

After an evaluation of credentials, qualified applicants will be invited for an interview.

Requirements for Graduation

In order to be eligible for the D.Sc.P.T. degree, students shall:
1. Be of good moral character
2. Complete a minimum of 90 semester hours of course work
3. Satisfactorily complete the program of study required for the degree within a minimum overall GPA of 80%
4. Satisfactorily meet all financial and library obligations
5. Successfully complete the Project in Advanced Clinical Competency (PACC)
6. Attend in person the rehearsal and commencement program at which the degree is conferred

Students will have seven years to complete the degree requirements. They may take 12 semester hours each term to complete the degree in 7.5 terms (2.5 years). The Project in Advanced Clinical Competency is a clinical research project under the direction of a member of the Doctoral Committee. The Committee must approve all projects.

Physical Therapy Courses (Doctoral)

(Note: Listed to the right of each entry are lecture clock hours, laboratory clock hours, and semester hours.)

PHT 7010
Professional Issues (54-0-3)
Current issues for the physical therapy profession. Students participate in group discussions and complete a written project on a selected topic or question. Seminar format. Required course.

PHT 7020
Ethical and Legal Issues (54-0-3)
Seminar on ethical, legal problems facing physical therapists. Students participate in discussion and complete a written project on a selected topic or question. Required course.

PHT 7110
Critical Inquiry I (54-0-3)
Seminar on process of critical inquiry and its role in patient care. Includes scientific methodology, research design, evaluation, scientific writing. Students complete critiques of research design, results, and conclusions of published research.

PHT 7120
Critical Inquiry II (54-0-3)
Continuation of Critical Inquiry I. Students will critique data collection, analysis and results of published research and analyze the applicability to physical therapy patient care.
PHT 7130 (54-0-3)  
**Critical Inquiry III**  
Seminar and independent study format to prepare students for the Project in Advanced Clinical Competency (PACC). Students prepare a proposal for their PACC, use current published PT research, prepare statistical analysis reports following a given format.

PHT 7210 (54-0-3)  
**Teaching and Learning in Physical Therapy**  
Seminar on concepts of teaching and learning. Students will complete a paper on a selected theory of teaching and learning. Offered three Saturday half-days.

PHT 7220 (54-0-3)  
**Patient Education**  
Independent study course to apply teaching-learning theories to patient education issues. Students will complete a project related to teaching-learning for patient groups or for individual patient care. Offered as independent study as needed. Prerequisite: PHT 7210.

PHT 7230 (54-0-3)  
**Clinical Education**  
Seminar on issues in clinical education. Students discuss, complete a project on clinical education. Offered on three Saturday half-days every term. Prerequisite: PHT 7210.

PHT 7310 (54-0-3)  
**Consulting Skills**  
Seminar on concepts of the roles, skills of consultants. Students discuss, complete a paper on selected topics in consultation. Offered three Saturday half-days.

PHT 7320 (54-0-3)  
**Consulting as a Physical Therapist**  
Independent study course. Students apply consulting concepts to prepare a report on a hypothetical or actual consulting situation in physical therapy. Offered as needed.

PHT 7400 (54-0-3)  
**Physical Therapy Practice**  
Independent study course. Students select a current policy, system, or management issue, prepare a paper discussing its impact on the delivery of physical therapy services. Prerequisite: PHT 7410, PHT 7420, PHT 7430

PHT 7410 (54-0-3)  
**Health Care Policy**  
Seminar for discussion of current health care policy, legislation at the national, state level that impacts the practice of physical therapy. Students discuss, complete a report on impact of health care policy in management of PT services. Offered three Saturday half-days.

PHT 7420 (54-0-3)  
**Health Care Delivery Systems**  
Seminar for discussion of current issues in various health care systems where physical therapists work. Students participate in discussions and complete a report on management of physical therapy services in a selected delivery system. Offered three Saturday half-days.

PHT 7430 (54-0-3)  
**Physical Therapy Management**  
Seminar for discussion of management of fiscal and human resources. Students will participate in discussions and complete a case-study project. Offered three Saturday half-days.
PHT 7500 (216 self-study)-(1-12)
Project in Advanced Clinical Competency
Students enroll in this course while completing their PACC under the direction of an assigned mentor. Students may enroll for up to 6 semester hours per term and must enroll in 12 semester hours to complete degree requirements. Objectives for the course(s) are individually determined for each student in order to meet degree requirements for a clinical research project.

PHT 7600 (648 self-study)-(36)
Pediatrics Clinical Competency Track

PHT 7610 (648 self-study)-(36)
Geriatrics Clinical Competency Track

PHT 7620 (648 self-study)-(36)
Cardiopulmonary Clinical Competency Track

PHT 7630 (648 self-study)-(36)
Electrophysiologic Clinical Competency Track

PHT 7640 (648 self-study)-(36)
Orthopedics Clinical Competency Track

PHT 7650 (648 self-study)-(36)
Sports Medicine Clinical Competency Track

PHT 7660 (648 self-study)-(36)
Neurologic Clinical Competency Track

Each track includes 1-week seminars, weekend seminars, and independent study. All seminars and independent study require papers, projects, and discussions. The track prepares students for the Project in Advanced Clinical Competency. All courses are scheduled in a format and at times conducive to the course content.

Information on the Master of Public Health degree is presented separately. Determination of credit that will apply to both degrees is determined by review of each applicant's credentials.

Physical Therapy

Student Organizations

Student Council
Student Council is the official voice of all students. The organization is open to all students, and welcomes proposals and participation from the entire student body. Its responsibilities include collecting and expressing student opinion, dispensing funds for student activities, acting as liaison for the student body, promoting physical therapy, supporting club and class activities, and working to improve the quality of life for students in the Physical Therapy Program.

Many student organizations addressing various professional and practice-related interests are also open for student membership, including:

American Physical Therapy Association
The Student Assembly of the American Physical Therapy Association
The Student Special Interest Group of the Florida Physical Therapy Association
Physical Therapy Student Government Association
PUBLIC HEALTH PROGRAM

The Master of Public Health (M.P.H.) program is a graduate level program that provides an essential education in public health emphasizing the necessary skills for preventing disease, conducting research and community service, and enhancing clinical practice. The M.P.H. training supplies the student with competencies for practicing public health and scientific medicine based on measurable evidence and solid research findings. The program has an emphasis on general public health, which will open doors of opportunity for students in the areas of biostatistics, epidemiology, health services administration, maternal and child health, and behavioral, environmental and occupational health. Professionals with M.P.H. degrees work in varied settings such as: health care facilities, public health teams, and community-based health education settings. The M.P.H. is the recognized degree for leadership in the health sciences as it enables the health professional to understand the biological, environmental, political, and social factors that determine the health of individual patients and the health of the community.

Because of the current trend towards health care reform, and other factors affecting our nation’s health care system, the demand for public health professionals is great. There is a shortage of professionals trained to address issues of public health involving health promotion/disease prevention, strategies of primary care delivery, and the provision of early, preventive care. The M.P.H. degree will enable the graduate to administer health care facilities and other areas focusing on these new priorities.

Educational Goals

- To provide a solid education in general Public Health that will equip graduates with the necessary tools for enhancing clinical practice, disease prevention, research, and community service
- To enable all graduates to practice public health scientifically, based on measurable evidence and solid research findings, and provide a better understanding of the individual in his or her social and biologic contexts
- To educate the health professional to comprehend the biological, environmental, political, and social factors that determine the health of the community
- To prepare graduates to identify public health problems, and develop comprehensive approaches for effective problem solving

Admission Requirements

NSU Health Professions Division Students

Applicants for admission must meet the following requirements:

1. Successfully complete the first semester of their primary degree program
2. Be in good academic standing
3. Obtain a recommendation from the Dean of their primary degree program
4. Be accepted by the M.P.H. Committee on Admissions

M.P.H. for NSU Faculty and Staff

Prior to matriculation, applicants must have:

1. A bachelor's degree (health-related) from a regionally accredited College or University with a cumulative GPA of at least 3.0 on a four-point scale
2. Official transcripts from all previously attended undergraduate and graduate institutions sent directly to the Office of Admissions, Master of Public Health Program
3. Evidence of an appropriate comparable experience if one does not hold a health-related degree
4. An official GRE, MCAT, DAT,
GMAT, or LSAT test score is needed if one does not hold a health-related degree. These scores must be no more than five years old.

The University reserves the right to modify any requirements on an individual basis as deemed necessary by the Dean of the College of Allied Health.

The College reserves the right, and the student, by his/her act of matriculation, concedes to the College the right, to require his/her withdrawal at any time the College deems it necessary to safeguard its standards of scholarship, conduct and compliance with regulations or for such other reasons as are deemed appropriate. The Dean of the College of the primary program in which the student is enrolled also reserves the right to require the student's withdrawal at any time for the above mentioned reasons, or if it is determined that enrollment in the M.P.H. Program is negatively affecting the student's progress in the primary program.

Tuition and Fees

Student tuition is $425/credit hour. Tuition waivers and discounts for NSU students, staff, and faculty members will be in accordance with those listed in the University schedule. Tuition and fees are subject to change without notice.

Application Procedure

Candidates for admission must submit a completed application form to the Office of Admissions and a $25 non-refundable student application fee.

Requirements for Graduation

To be eligible to receive the M.P.H. degree, students shall:
1. Be of good moral character
2. Satisfactorily complete the program of study required for the degree within a minimum overall GPA of 3.0 on a four-point scale
3. Pass a comprehensive examination which includes all major areas of public health
4. Successfully complete the M.P.H. Project
5. Attend in person the rehearsal and commencement program at which time the degree is conferred

Course of Study

The M.P.H. Program requires a minimum of 40 credit hours of study. A maximum of ten credit hours is granted to students or to health professionals for public health-related courses taken during other health professions training. A total of six credit hours can be transferred from equivalent public health courses taken at other institutions outside the NSU Health Professions Division. The Dean reserves the right, in special cases, to require more than the minimum of 40 credit hours.

Courses are offered in two different schedules including evenings and intensive summer courses.
## CURRICULUM OUTLINE

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<th>Required Courses</th>
<th>Lecture</th>
<th>Laboratory</th>
<th>Semester Hours</th>
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<td>PUH 5001 Introduction to Epidemiology &amp; Biostatistics</td>
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<td>PUH 5002 Health Promotion &amp; Disease Prevention</td>
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<td>PUH 5003 Behavioral Issues in Medicine &amp; Public Health</td>
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<td>PUH 5110 Ethnocultural and Rural Medicine</td>
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<td>PUH 5111 Public Health Issues in Elder Care</td>
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<td>PUH 5006 Health Care Delivery Systems</td>
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<td>PUH 5007 Microbiology &amp; Infectious Diseases</td>
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<td>PUH 5301 Biostatistics</td>
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<td>PUH 5610 Computer Applications in Public Health</td>
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<td>PUH 6001 Social &amp; Behavioral Sciences Applied to Health</td>
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<td>PUH 5220 Environmental &amp; Occupational Health</td>
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<tr>
<td>PUH 5520 Legal &amp; Ethical Issues in Public Health</td>
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<td>PUH 5512 Health Policy, Planning &amp; Management</td>
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<td>PUH 5430 Epidemiology</td>
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<td>PUH 5510 Maternal &amp; Child Health</td>
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<td>PUH 6604 Research Methods in Public Health</td>
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<td>PUH 6002 Public Health Project (Practicum)</td>
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<tr>
<td>PUH 5521 History of Public Health</td>
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<tr>
<td>PUH 5420 Epidemiology of Diseases of Major Public Health Importance</td>
<td>32</td>
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<td>PUH 6013 Epidemiology of Infectious Diseases</td>
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<tr>
<td>PUH 5004 Primary Care in Rural &amp; Underserved Communities</td>
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<tr>
<td>PUH 5008 Introduction to Human Disease</td>
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<tr>
<td>PUH 5009 Advanced Legal &amp; Ethical Issues in Health Care</td>
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<td>PUH 5010 Health Care Reform</td>
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<td>PUH 5501 Cross-Cultural Perspective of Functional Performance</td>
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<td>Total Hours</td>
<td>272</td>
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<td>41</td>
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</tbody>
</table>
M.P.H. Courses
(Note: Listed to the right of each entry are lecture hours, laboratory hours, and semester hours.)

PUH-5001 (20-0-2)
Introduction to Epidemiology & Biostatistics
Covers basic methods of epidemiology and biostatistics commonly used in clinical research. Introduces students to the evaluation of diagnostic procedures and the methodology for clinical trials evaluating new treatments. Provides basic skills on critical reading of medical literature including basic research design issues and the interpretation of selected statistical analysis of data.

PUH-5002 (12-0-1)
Health Promotion & Disease Prevention
Students learn health strategies that can be incorporated in the primary care setting. Focuses on wellness through preventive interventions and services, emphasizes the individual's responsibility of one's own health and community efforts to protect against disease and environmental hazards. Epidemiology, risk factors, screening tests and community resources are identified with each health issue presented.

PUH-5301 (36-0-3)
Biostatistics
Introduction to principles and reasoning underlying modern biostatistics; specific inferential techniques commonly used in public health research. After completing the course, students will be able to apply basic inferential methods in their research endeavors and be able to read and understand statistically-oriented medical research articles.

PUH-5003 (18-0-1)
Behavioral Issues in Medicine & Public Health
Individual and community behavior is addressed with students, including topics such as social change processes and psychosocial problems, the patient/clinician relationship. Through lectures, class discussions, role playing and case studies students will achieve better understanding of behavioral issues in the community and develop skills for individual patient counseling.

PUH-5220 (36-0-3)
Environmental & Occupational Health
Study of major environmental and occupational factors that contribute to the development of health problems in industrialized and developing countries. Emphasizes toxic substances, pests and pesticides, food quality, air and water pollution, and solid and hazardous waste disposal as major environmental problems of our time. Includes occupational hazards and injury prevention.

PUH-5110 (12-0-1)
Ethnocultural & Rural Medicine
Introduction to skills and insights that are necessary in addressing the problems of providing health care to minority groups. Emphasizes the need for effective communication and an understanding of cultural factors and how they impact on preventive efforts, accessibility to medical care, patient compliance, and the doctor-patient relationship.

PUH-5111 (12-0-1)
Public Health Issues in Elder Care
Integrates the characteristics and experience of the aged population with emphasis on social and cultural characteristics, economic, psychological, and health-related concerns. Includes selected psychosocial aspects of chronic care management.

PUH-5520 (36-0-3)
Legal & Ethical Issues in Public Health
Introduces non-lawyers to the important roles law and ethics play in determining the public's health. Students develop skills in analyzing political, legislative, legal and ethical aspects of public health issues.
Introduction to principles and logic involved in health policy, planning and management. Covers history, political and environmental contexts, and the incorporation of population research.

Students develop conceptual and analytical skills in the design and conduct of clinical and epidemiologic studies, in the process of epidemiologic surveillance, the evaluation of screening and diagnostic tests, investigation of epidemics, and confounding effects, and apply the design and analytical procedures to deal with them.

Introduction to prevention and health care resources for mothers and children in the U.S., public health issues affecting mothers and children, and public health practices which affect their well-being.


Hands-on computer analysis of data using existing statistical programming. Demonstrates computer applications to existing public health problems and issues, includes data presentation using tables, graphs and charts.

Provides a conceptual and practical basis for planning and implementing a wide range of community-based health programs. Includes issues of health education and public health nutrition; assists in developing specific skills necessary for the evaluation of public health programs in the promotion of health and prevention of disease.

Provides intermediate level research methods, concepts and principles. Presents practical issues in the design, conduct and analysis of public health studies; encompasses quantitative and qualitative research methodology as currently used in public health.

Includes a review of medical bacteriology, virology, mycology with special emphasis on the study of the etiologic agents, their transmission, and the diseases they produce.

Includes individual programs of field observation, practice and/or research. Students work under the direction of faculty advisors to complete a project including a detailed literature review and evaluation, a field work, data analysis and an individual, publishable report. Field study sites may include doctors' offices, hospitals, health departments, regulating and planning agencies, health insurers, and other similar health-related locations.
Elective Courses

**PUH-6013 (36-0-3)**

*Epidemiology of Infectious Diseases*

Through lectures, discussions and student presentations of case studies a complete survey of selected infectious diseases is carried out. Emphasizes preventive measures and management of outbreaks, includes major infectious diseases: HIV/AIDS, tuberculosis, hepatitis infections diseases, nosocomial infectious, Legionella, malaria, cholera, leprosy, and Chagas' disease.

**PUH-5004 (12-0-1)**

*Primary Care in Rural & Underserved Communities*

Introduces concepts of rural practice, discusses the role of the rural practitioner. Presents problems associated with the delivery of health care in rural and medically underserved areas.

**PUH-5006 (12-0-1)**

*Health Care Delivery Systems*

Introduction to the different health care delivery systems in the U.S., including private practice, HMO, health department clinics, etc. Discusses current changes in delivery of medical care systems, and Medicare, Medicaid, and private health insurance companies.

**PUH-5008 (36-0-3)**

*Introduction to Human Disease*

This course is for students without sufficient biomedical background who desire to obtain the M.P.H. degree. Includes basic anatomy, physiology, pathology, clinical features, treatment and patient management of selected major diseases.

**PUH-5521 (36-0-3)**

*History of Public Health*

Surveys the history of public health in the U.S. from the colonial period to the 20th century, looks at development of public health services from a historical perspective. Students address questions of public responsibility for health and welfare which remain central in policy debates today.

**PUH-5009 (48-0-4)**

*Advanced Legal & Ethical Issues in Health Care*

Examines current legal and ethical issues affecting health care delivery, addresses issues of confidentiality, reimbursement, right to die, advanced directives, ethical dilemmas, OBRA, workers compensation, Public Law 94-142, documentation, employer-employee independent contractor relationship, malpractice issues, and expert witness testimony.

**PUH-5010 (36-0-3)**

*Health Care Reform*

Explores the global issues of health care reform examining the theories and methodologies of reform, the impact of each upon occupational therapy and how practitioners can affect change.

**PUH-5501 (36-0-3)**

*Cross-Cultural Perspective of Functional Performance*

Studies the meaning, function, and role of purposeful activity in varying cultures predominant in the southern U.S. Conducts analysis of purposeful activity as treatment media for occupational therapists. Includes lectures and field experience.
College of Medical Sciences
Mission Statement

To provide basic science education for all colleges and programs of the Health Professions Division, as requested by the respective deans.

To recommend to administration, and to establish when authorized, a program for Master-level degrees, and a Doctor of Philosophy degree, either in individual basic sciences or in general basic science.
Degree Programs
In line with its mission, the College of Medical Sciences presently offers a Master of Biomedical Sciences degree.

Accreditation
While there is no specific accreditation process for basic science or Medical Sciences, this portion of our educational process has always been evaluated by visiting teams of the several professions and has always received highest grades and commendation.

Admission Requirements
In order to be considered for admission into the Master’s program, the student must meet the following requirements:

1. A bachelor’s degree from a regionally accredited college or university.
2. Completion of 8 semester hours with a 2.0 grade point average in each of the following: General biology, General chemistry, Organic chemistry and General physics, all with laboratory.
3. A minimum cumulative GPA of 2.5.
4. Scores from one of the following: the Medical College Admissions Test (MCAT), Optometry Admissions Test (OAT), Pharmacy College Admissions Test (PCAT), Allied Health Professions Admissions Test (AHPAT), or the Graduate Record Examination (GRE). Scores may not be more than five years old.

It should be noted that many criteria, in addition to academic credentials, play a role in the admissions process to professional schools. While the biomedical science program does provide an opportunity for the student to demonstrate academic capability, it does not assure admission to any professional school. Admission to the graduate program or completion of courses will not guarantee admission to any other program of Nova Southeastern University.

Application Procedures
Candidates for admission must submit:

1. A completed application form along with a $50.00 non-refundable application fee.
2. Official transcripts of all undergraduate, graduate and
professional course work, submitted directly to the Office of Admissions, College of Medical Sciences.

3. Official reports of standardized test scores such as the MCAT, OAT, PCAT, AHPAT, or GRE, not more than five years old.

4. One letter of recommendation from a pre-professional advisory committee, or, if this does not exist, two letters may be substituted from instructors who can testify to the student's characteristics, integrity, application and aptitude in science. If an applicant has been in the work world for a considerable period of time, two letters of recommendation may be substituted from employers who can testify to the student's characteristics, integrity, application and aptitude in science.

Upon receipt of the completed application and required credentials, the Committee on Admissions will select those applicants to be interviewed. All applicants who are eventually accepted into the program must be interviewed. An invitation to appear for an interview should not be construed by the applicant as evidence of acceptance.

The Dean of the College of Medical Sciences is empowered to evaluate the total qualifications of every student and to modify requirements in unusual circumstances.

The admission process to the graduate program in Biomedical Sciences is not related in any way to the admissions process of any other program at Nova Southeastern University.

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**Schedule of Application for Admission Cycle**

Applications will be accepted starting January 1, and the deadline is June 1.

**Tuition and Fees**

1. **Tuition and Fees:** $20,000.00 for the 1997-98 academic year. There is no differential tuition for in-state or out-of-state residents.

2. **Acceptance Fee:** $100.00. 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 case of withdrawal. It is payable within two weeks of the applicant's acceptance.

3. **Deposit:** $400.00, due March 15, under the same terms as the Acceptance Fee.

4. **Pre-registration Fee:** $500.00, due May 15, under the same terms as the Acceptance Fee.

5. **Student Activities Fee:** $100.00 payable at each fall registration.

The first semester's tuition and fees less the $1,000 previously paid, are due on or before Registration Day. Tuition for the subsequent semester is due on or before Registration Day for that semester. Students will not be admitted until their financial obligations have been met.

**Transfer Credits**

A student who has attended another college or university in a medical sciences program, must ask the Registrar of that institution and all other institutions attended to send official transcripts.
of credit to the Office of Admissions, Nova Southeastern University College of Medical Sciences. The student shall request the Dean of the college attended to send a letter of recommendation directly to the Dean of the College of Medical Sciences.

No more than six hours of the 40 hours required for the degree can be transferred from another institution and only graduate courses with a B or better, after approval by the student's advisory committee and the Dean, will be accepted.

The Dean's office will evaluate the courses and determine appropriate credits.

Dismissal and Suspension
Student progress will be monitored after each academic term. Students who fail to maintain a numerical grade point average of 80 will be placed on academic probation until a numerical grade point average of 80 is acquired. If academic probation is not removed within one semester following the student's placement on probation, a student may be dismissed from the program.

Policy on Re-admission
Students who are dismissed for any reason may petition for reinstatement, if a reasonable time has elapsed since the dismissal. Re-admission will be at the discretion of the Dean. The applicant is required to present adequate evidence that the factors which caused the prior poor academic performance have changed significantly so that there is reasonable expectation that the applicant can perform satisfactorily if permitted to resume his/her college study.

The College reserves the right, and the student, by his/her act of matriculation, concedes to the College the right to require withdrawal at any time the College deems it necessary to safeguard its standards of scholarship, professional behavior and compliance with regulations or for such other reasons as are deemed appropriate.

Graduation Requirements
To receive a degree, every student must fulfill the following requirements:

1. Be of good moral character.
2. Have satisfactorily passed all required examinations.
3. Complete a minimum of 40 semester hours of course work.
4. Have satisfactorily completed the assigned curriculum requirements for the degree including all assignments, with a numerical grade point average of 80 or above.
5. Successful completion of the final comprehensive examination.
7. Have satisfactorily met all financial and library obligations.
8. Attend in person the rehearsal and commencement program at which the degree is awarded.

Course of Study
The Master of Biomedical Sciences at Nova Southeastern University is a full-time degree program that is completed in two years. Students are admitted in August every year. The two-year program includes four full semesters of study, performed on campus. Students select an advisor and a graduate committee who direct their programs of study. Course work is completed along with students in the professional programs and select course work is offered by the College of Medical Sciences. The majority of the courses offered in the Col-
College of Medical Sciences are taught to students within other HPD colleges. Students will be required to enroll in selected departmental courses: Introduction to Research, Thesis/Research and Seminar.

The College of Medical Sciences has assigned different numbers to the courses in other colleges, as shown below.

**College of Medical Sciences Courses**

The College offers courses for graduate credit within the other Colleges in the Health Professions Division. Details of each course can be found listed under the appropriate college. Courses are identified by their College of Medical Sciences course number, with specific College-designation and number indicated.

(Note: Listed to the right of each entry are lecture clock hours, laboratory clock hours, and semester hours.)

**Anatomy**

**ANA 5710**

*(1-1-1)*

*Histology & Embryology*

Same content as ANA 5310-College of Optometry

**ANA 5714**

*(3-3-4)*

*Medical Histology & Embryology*

Same content as ANA 5114-College of Osteopathic Medicine

**ANA 5716**

*(6-3-7)*

*Gross Anatomy*

Same content as ANA 5616-College of Allied Health/Physical Therapy Program

**ANA 5720**

*(3-2-3)*

*Gross Anatomy*

Same content as ANA 5320-College of Optometry

**ANA 5723**

*(2-2-3)*

*Neuroanatomy*

Same content as ANA 5423-College of Osteopathic Medicine

**ANA 5726**

*(6-3-7)*

*Gross Anatomy*

Same content as ANA 5516-College of Allied Health/Occupational Therapy Program

**ANA 5727**

*(6-3-7)*

*Gross Anatomy I*

Same content as ANA 5217-College of Osteopathic Medicine

**ANA 5733**

*(2-2-3)*

*Neuroanatomy*

Same content as ANA 5633-College of Allied Health/Physical Therapy Program

**ANA 5734**

*(2-2-3)*

*Neuroanatomy*

Same content as ANA 5533-College of Allied Health/Occupational Therapy Program

**ANA 5740**

*(2-2-3)*

*Anatomy*

Same content as ANA 5420-College of Allied Health/Physician Assistant Program

**ANA 5750**

*(5-4-7)*

*Anatomy*

Same content as ANA 5420-College of Allied Health/Physician Assistant Program

**ANA 6700**

*(1 to 6 semester hours)*

*Special Topics*

Topics and hours to be arranged

**Biochemistry**

**BCH 5700**

*(3-0-3)*

*Biochemistry*

Same content as BCH 5300-College of Optometry

126
BCH 5716  (6-0-6)  
**Medical Biochemistry**  
Same content as BCH 5116-College of Osteopathic Medicine  

BCH 5720  (4-0-4)  
**Biochemistry**  
Same content as BCH 5200-College of Pharmacy  

BCH 6700  (1 to 6 semester hours)  
**Special Topics**  
Topics and hours to be arranged  

**Microbiology**  
MIC 5700  (3-0-3)  
**Microbiology**  
Same content as MIC 5400-College of Allied Health/Physician Assistant Program  

MIC 5720  (3-0-3)  
**Microbiology**  
Same content as MIC 5200-College of Pharmacy  

MIC 5726  (6-0-6)  
**Medical Microbiology & Immunology**  
Same content as MIC 5126-College of Osteopathic Medicine  

MIC 5730  (3-0-3)  
**Microbiology (Medical Microbiology/Embryology)**  
Same content as MIC 5300-College of Optometry  

MIC 6700  (1 to 6 semester hours)  
**Special Topics**  
Topics and hours to be arranged  

**Pathology**  
PTH 5700  (3-0-3)  
**General Pathology**  
Same content as PTH 6300-College of Optometry  

PTH 5710  (2-0-2)  
**Pathology**  
Same content as PTH 5410-College of Allied Health/Physician Assistant Program  

PTH 5712  (2-0-2)  
**Pathology I**  
Same content as PTH 6112-College of Osteopathic Medicine  

PTH 5720  (2-0-2)  
**Clinical Pathology**  
Same content as PTH 5420-College of Allied Health/Physician Assistant Program  

PTH 6700  (1 to 6 semester hours)  
**Special Topics**  
Topics and hours to be arranged  

**Pharmacology**  
PCO 5700  (1-0-1)  
**Biomedical Principles**  
Same content as PCO 5400-College of Allied Health/Physician Assistant Program  

PCO 5710  (2-0-2)  
**Pharmacology I**  
Same content as PCO 5410-College of Allied Health/Physician Assistant Program  

PCO 5720  (3-0-3)  
**Pharmacology II**  
Same content as PCO 5420-College of Allied Health/Physician Assistant Program  

PCO 5730  (1-0-1)  
**Pharmacology III**  
Same content as PCO 5430-College of Allied Health/Physician Assistant Program  

PCO 6700  (1 to 6-0-1 to 6)  
**Special Topics**
PCO 6710  (4-0-4)  
*General Pharmacology*
Same content as PCO 6310-College of Optometry

PCO 6712  (2-0-2)  
*Principles of Pharmacology*
Same content as PCO 6112-College of Osteopathic Medicine

PCO 6720  (3-0-3)  
*Ocular Pharmacology*
Same content as PCO 6320-College of Optometry

**Physiology**

PHS 5700  (3-0-3)  
*Physiology*
Same content as PHS 5300-College of Optometry

PHS 5710  (4-2-5)  
*Anatomy & Pathophysiology I*
Same content as PHS 5210-College of Pharmacy

PHS 5720  (3-0-3)  
*Advanced Pathophysiology I*
Same content as PHS 7210-College of Pharmacy

PHS 5722  (3-0-3)  
*Anatomy & Pathophysiology II*
Same content as PHS 5220-College of Pharmacy

PHS 5726  (6-0-6)  
*Medical Physiology*
Same content as PHY 5126-College of Osteopathic Medicine

PHS 5730  (3-0-3)  
*Advanced Pathophysiology II*
Same content as PHS 7220-College of Pharmacy

PHS 5740  (4-0-4)  
*Physiology & Pathophysiology*
Same content as PHS 5400-College of Allied Health/Physician Assistant Program

PHS 6700  (1 to 6 semester hours)  
*Special Topics*
Topics and hours to be arranged

**Required Core Courses**

COMS 5701  (1 to 6 semester hours)  
*Thesis/Research*
Credit is given for a supervised, original study of an area of medical science. Topics and hours to be arranged

COMS 5702  (1 to 6 semester hours)  
*Seminar*
Students and faculty observe and present research seminars on selected topics. Topics and hours to be arranged

COMS 5711  (1-0-1)  
*Introduction to Research*
The course emphasizes the importance of data collection, research methods, and application of scientific thought to research findings.

COMS 6700  (1 to 6 semester hours)  
*Special Topics*
Course work is designed to advance knowledge in a specific area of science. Topics and hours to be arranged
Mission Statement

The mission of the College of Dental Medicine is to educate and train our students in order to ensure their competency to practice the art and science of the dental profession.

The College of Dental Medicine requires our graduates to be biologically knowledgeable, technically skilled, compassionate, and sensitive to the needs of all patients and the community.

The College of Dental Medicine fosters an atmosphere of creativity and innovation through research and community service.

Our graduate dentist will be a practitioner who adheres to the highest standards of ethics and exhibits exemplary performance and behavior while effectively delivering the highest quality of health care. We recognize that any nation’s, any community’s, highest asset is the health of its citizens.
Administration
Seymour Oliet, D.D.S., Dean
Edward A. Reetz, D.M.D., M.S.D., Associate Dean for Academic Affairs

Dental Medicine
If you are considering a career in dentistry, your education will focus on producing a competent, confident and mature professional. You will be trained to function as a highly qualified primary care practitioner, capable of delivering total comprehensive dental care to patients of all ages.

For the highly trained and skilled dentist, career opportunities are almost limitless. The options can be fulfilling and rewarding. The skilled dentist may choose to practice individually in urban, suburban, or rural environments; or may join an established, respected and successful practice; or may choose public service in governmental agencies or the military. The skilled dentist may opt to become a specialist with additional advanced education in such fields as endodontics, periodontics, orthodontics, and oral surgery.

For rewards so great, the training is extensive and complete. The nationally recognized faculty of Nova Southeastern University College of Dental Medicine will prepare you to take your place as a leader among oral health care providers.

A dynamic career awaits a committed individual. We invite your inquiries.

Accreditation
Nova Southeastern University College of Dental Medicine has requested accreditation eligible status from the Commission on Dental Accreditation of the American Dental Association. Site visitation occurred in October, 1996. Determination will be announced in January, 1997.

Facilities
The College of Dental Medicine will use the full facilities of the recently constructed $42 million physical plant of Nova Southeastern University Health Professions Division. A separate building consisting of 60,000 square feet of space will be used primarily for the College of Dental Medicine and will house the clinical simulation laboratory, junior student dental clinic, intramural practice area, and seminar rooms in addition to areas for providing modern dental care.

Requirements for Admission
The College of Dental Medicine selects students based on pre-professional academic performance, Dental College Admissions Test (DAT) scores, per-
sonal interview, written application and letters of evaluation.

1. Prior to matriculation, applicants must have completed a minimum of 90 semester hours of course work from a regionally accredited college or university. Not more than 60 semester hours from community or junior college will be applied to the 90-semester hour minimum.

2. Students should have a cumulative GPA of 2.5 or higher on a four-point scale, and must have earned a grade of 2.0 or better in each of the following required courses:

   - General biology 8 semester hours including laboratory (Zoology and Microbiology are acceptable alternatives)
   - General chemistry 8 semester hours including laboratory
   - Organic chemistry 8 semester hours including laboratory
   - Physics 8 semester hours including laboratory
   - English composition 3 semester hours
   - English literature 3 semester hours

   Courses strongly recommended:

   Upper division biology courses (including anatomy, histology, biochemistry, immunology, and physiology), courses in social sciences, principles of management, accounting, communication, foreign languages, art and sculpture will contribute to a broad educational background.

   Upon review of a student's individual record, the Committee on Admissions may require additional course work and testing as a condition of acceptance.

   The Dean is empowered to evaluate the total qualifications of every student and to modify requirements in unusual circumstances.

   Inquiries should be directed to:

   Office of Admissions
   Nova Southeastern University
   College of Dental Medicine
   3200 S. University Drive
   Ft. Lauderdale, FL 33328
   (954) 723-1101, or
   (800) 356-0026

**Application Procedure**

1. Nova Southeastern University College of Dental Medicine uses the American Association of Dental Schools Application Service (AADSAS). AADSAS takes no part in the selection of students. The deadline for AADSAS application is January 15, 1997, for the class entering August, 1997.

   Applications are available from:

   American Association of Dental Schools Application Service AADSAS
   1625 Massachusetts, NW
   6th Floor
   Washington, DC
   20036-2212
   Tel: (202) 667-1886

   Materials to be mailed to AADSAS include:

   A. AADSAS application
   B. An official transcript from the Registrar of each college or university in which the student was enrolled (mailed directly by the college to AADSAS)
   C. Dental College Admissions Test (DAT) scores
2. The applicant should mail the following materials to the College of Dental Medicine:

A. The supplementary application sent to the applicant by the College
B. A non-refundable application fee of $50.00
C. An evaluation by a pre-professional health advisor or committee is required from the applicant’s undergraduate institution. If this evaluation cannot be provided, three individual letters of evaluation are recommended from undergraduate instructors, two from science instructors and one from a liberal arts instructor. If possible, these letters should be from faculty who know the applicant’s scholastic abilities and personal character; otherwise, they should be from persons (non-relatives) who can provide an evaluation to the Committee on Admissions.
D. A letter of evaluation from a dentist is highly recommended but not required.

Upon receipt of the completed application and the required credentials, the Committee on Admissions will select applicants for interview and those selected will be notified in writing. All applicants who are admitted to the College must be interviewed, but an invitation to appear for an interview should not be construed as evidence of acceptance. 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.

Although the Committee on Admissions realizes that the majority of applicants take the DAT in October, conditional acceptances may be made to exceptional candidates pending receipt of the Spring DAT test results.

A final transcript, covering all of the applicant’s work, must be forwarded to the Office of Admissions prior to matriculation.

Incomplete applications will not be considered. If your file will not be complete prior to the deadline, please attach a statement to the NSU-CDM Supplemental Application for Admission explaining what documents will be submitted after the deadline and the reason for their delay. Decisions to review late applications are at the discretion of the Committee on Admissions.

Advanced Standing For International Graduates
The College of Dental Medicine has available a number of openings for graduates of non-U.S. dental schools who wish to earn a U.S. dental degree and to qualify for licensure in the United States.

Admission Requirements For Advanced Standing For International Graduates
The College of Dental Medicine selects students based on academic record, letters of evaluation, scores in the Test of English as a Foreign Language (TOEFL), scores in the Test of Spoken English (TSE), a passing score (75) on Part I of the National Dental Board Examination, and personal interview.

In order to qualify, the applicant must have received, prior to matriculation in this advanced standing program, a D.M.D., D.D.S., B.D.S., or equivalent from a non-U.S. dental school.
Application Procedure For Advanced Standing For International Graduates

The applicant should mail the following materials to the Office of Admissions, College of Dental Medicine:

1. The completed College of Dental Medicine application form for advanced standing for International Graduates
2. A non-refundable application fee of $50
3. Official scores from the Test of English as a Foreign Language (TOEFL) and Test of Spoken English (TSE)

The applicant must have sent directly to the College of Dental Medicine:

1. One official transcript sent directly from each college, professional school, or university attended. Transcripts must be sent directly from the institutions attended by the applicant to the Office of Admissions, College of Dental Medicine. Course work taken at a foreign institution must be evaluated for U.S. institution equivalency by one of the two services listed below. You should contact either:

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

   Joseph Silney and Associates
   International Education Consultants
   Coral Gables, FL 33124
   (305) 666-0233

   It is the applicant's responsibility to have this course work evaluated, and an official evaluation must be sent to the Office of Admissions.
2. Official National Board scores. Please request the secretary of the National Board of Dental Examiners to forward to the Office of Admissions the applicant scores for Part I and or Part II of the Dental Boards. The National Board is located at 211 East Chicago Avenue, Chicago, Illinois 60611.
3. Three letters of evaluation are required. They may be completed by dental school faculty members who are well acquainted with your abilities or by individuals who can provide information relevant to your potential.

Tuition and fees are the same as for regular students, as described elsewhere in this brochure.

Tuition and Fees

The Board of Trustees has established the following tuition and fees, which are subject to change at any time at the Board's discretion.

1. Tuition - $25,000 for the 1997-98 academic year, plus a student activities fee of $100 is required from all students.
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, due March 15, under the same terms as the Acceptance Fee.
4. Pre-registration Fee - $500, 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 and Financial Aid**

Students should anticipate spending approximately $1,200 a year for books. At this time, the cost of instruments and equipment is undetermined. However, costs will be comparable to other private dental schools.

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 health professions education. Various loans, scholarships, and grants are available to qualified students to help ease the high cost of a health professions education. These financial assistance programs are described in a separate University publication: *Financial Freedom*.

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.

**Suspension/Dismissal**

Failure to successfully complete any course upon repeating it will result in automatic suspension, and may lead to dismissal. This will apply regardless of the student's GPA.

Failure to successfully complete any repeated Externship or Clerkship rotation will result in automatic suspension, and may lead to dismissal. This will apply regardless of the student's GPA.

Failure of two or more courses, Externship or Clerkship rotation, regardless of remediation status, will result in automatic suspension and may lead to dismissal.

Any student falling below standards in the above categories may be required to repeat courses (at student's expense), at the discretion of the Dean's office. Unprofessional conduct will result in dismissal. Any student with an unsatisfactory grade point average for two semesters will be suspended and may be dismissed.

**Re-Admission Policy**

Students may re-apply for admission if a reasonable time has elapsed since the dismissal. Re-admission will be at the discretion of the Dean. The applicant is required to present adequate evidence that the factors which caused the prior poor academic performance have changed significantly so that there is a reasonable expectation that the applicant can perform satisfactorily if permitted to resume his/her college study. It is noted that the student's prior academic record will remain part of his/her overall academic record, but none of the prior grades will be calculated in the new GPA.
A student formerly enrolled in the College of Dental Medicine must request re-admission through a letter to the Dean of the College of Dental Medicine. Additional consideration of the re-entering student's academic standing will be based on all courses attempted in the College of Dental Medicine. Other conditions may apply to the re-admission process: (1) If a student seeking re-admission has attended another college or university since leaving, an official transcript from that institution must be submitted as part of the re-admission request; (2) If a student returns to the College of Dental Medicine, normally the requirements of the curriculum which are in force at the time of the return must be met, not the requirements which were in effect when originally admitted.

The College reserves the right, and the student, by his/her act of matriculation, concedes to the college the right to require withdrawal at any time the College deems it necessary to safeguard its standards of scholarship, professional behavior and compliance with its regulations or such other reasons as deemed appropriate.

Graduation Requirements

To receive a degree from the College of Dental Medicine, every student must fulfill the following requirements:

1. Be of good moral character
2. Have satisfactorily passed all required examinations
3. Complete a minimum of 132 semester hours of course work in the College of Dental Medicine within seven years.
4. Satisfactorily complete the assigned curriculum requirements for the degree, including all assignments, with a grade point average of 2.0 or numerical average of 70 or above.

5. Satisfactorily meet all financial and library obligations.
6. Attend in person the rehearsal and commencement program at which the degree is awarded.

Course of Study

The College of Dental Medicine embodies an innovative, newly developed curriculum designed to graduate competent clinicians devoted to primary care and total comprehensive care of each patient.

The College is closely allied with Nova Southeastern University College of Osteopathic Medicine, and the health profession schools of the NSU Health Professions Division in proximity as well as in academic collaboration. Courses in medicine, as well as basic biomedical sciences, will prepare students to treat the physically-well and the medically-compromised patients with assured quality care.

Early introduction into clinical settings, under the preceptorship of faculty master-clinicians, will enable the student to achieve a better understanding of the dynamics of the patient/dentist relationship, and will reinforce classroom instruction in basic and behavioral sciences into management and delivery of dental health care.

Students will be taught the importance of teamwork in an efficient, modern group health care delivery system.
CURRICULUM OUTLINE

First Year
Semester 1
DAG 1118 Human Gross Anatomy
DAH 1113 Histology
DBC 1111 Introduction to Computers
DBC 1114 Biochemistry
DBP 1111 Introduction to the Dental Profession
DPE 1111 Periodontics
DPP 1111 Disease Prevention
DRD 1114 Restorative Dentistry & Dental Materials I
DRD 1124 Restorative Dentistry & Dental Materials II
DRM 1111 Principles of Dental Materials

Semester 2
DAN 1224 Neuroanatomy/Head & Neck
DAO 1223 Oral Histology & Embryology
DBN 1221 Dental Nutrition
DMC 1214 Microbiology
DMR 2111 Radiology I
DPE 1221 Periodontics II
DPY 1217 Medical Physiology
DRD 1136 Restorative Dentistry & Dental Materials III

Second Year
Semester 1
DBT 3111 Patient Management
DPA 2113 General Pathology
DPE 2131 Periodontics III
DPH 2114 Pharmacology I
DRD 2146 Restorative Dentistry & Dental Materials IV

Semester 2
DET 2212 Endodontic Technique
DMA 2211 Anesthesia & Pain Control
DMO 2211 Oral Medicine I - Physical Diagnosis
DMR 2221 Radiology II
DOP 2222 Orthodontic Technique
DOP 2232 Pediatric Dentistry
DOP 2211 Clinical Orthodontics
DPE 2241 Periodontics IV
DPH 2224 Pharmacology II

Summer Session
Clinical Patient Care

Third Year
Semester 1
DMB 3111 Biostatistics & Research
DEC 3121 Clinical Endodontics
DMA 3121 Analgesia & Pain Control II
DME 3111 Evidence-Based Clinical Dental Medicine
DMM 3111 Medicine I
DMO 3121 Oral Medicine II - Oral Diagnosis

Semester 2
DMC 3115 Microbiology
DBE 3211 Ethics & Jurisprudence
DBM 3211 Practice Management
DBT 3111 Patient Management
DSR 2211 Oral & Maxillofacial Surgery
Clinical Patient Care

Fourth Year
Semester 1
DMS 4111 Oral Manifestation of Systemic Disease
DPE 4171 Periodontics VII
Clinical Patient Care

Semester 2
DPE 4281 Periodontics VIII
Clinical Patient Care
Graduate Specialty Training

The College of Dental Medicine will be offering postgraduate specialty training in several fields starting in the fall of 1997. It is anticipated that there will be four training positions each in Endodontics, Periodontics, Orthodontics, and Pediatric Dentistry.

These programs will conform to the standards set by the American Dental Association for such training and will be supervised by certified and qualified dental specialists. The tuition will be $25,000.00 a year and detailed information may be obtained from the Office of the Dean.

College of Dental Medicine Courses

(Note: Listed to the right of each entry are lecture clock hours, laboratory clock hours, and semester hours.)

Anatomy

Chairman and Professor: G.R. Conover; Professors: L. Dribin, J. Kronman, H. Remnick; Clinical Professors: H. Kaplan, A. Ponce; Professor Emeritus: F. H. Higginbotham; Associate Professors: J. C. Lanning, A. Mariassey; Assistant Professors: S. C. Barry, R. E. Yip; Clinical Assistant Professors: W. Balton, S. Caplan

DAH 1113 (36-72-3)
Histology (Microscopic Anatomy)
Principles of cell biology, normal microscopic and sub-microscopic anatomy of cells, tissues and organs correlated with gross anatomy and physiologic function. Microscopic anatomy of normal tissues and organs.

DAG 1118 (108-90-8)
Human Gross Anatomy
Human anatomy with an emphasis on the thorax, neck, and head. Lecture sessions and laboratory dissection and projection, organogenesis of regions dissected. Radiological anatomy.

DAN 1224 (72-36-4)
Neuroanatomy/Head & Neck Anatomy
Human nervous system, cranial nervous system, its central connections and pathways. Relationship between form and function, problem-based learning modules of clinical correlation of head and neck anatomy to lesions and pathology.

DAO 1223 (54-0-3)
Oral Histology & Embryology
Microscopic tissues of the oral cavity, face and palate development, facial defects and rationale of treatment. Microscopic appearance of hard and soft tissues of the mouth, interstitial fibers of the periodontal ligament, masticatory mucosa including the lamina, dorsal and ventral surfaces of the tongue, floor of the mouth and attached and lining mucosa, structure and ultrastructure of the junctional and sulcular epithelium.

Behavioral Sciences

Professors: F. DiPiano, J. Galbally, M. Morris; Clinical Associate Professor: P. Keller; Assistant Professor: J. Rose

DBC 1111 (18-0-1)
Introduction to Computers
Basic computer function, keyboard and GUI, file management, search engines (including Med-line), word processing, communication (modem usage, E-mail). Terminology and computer functions, mouse, GUI function (Win 95) and file
management. Internet hook-up, standard internet and literature searches using Med-line.

**DBP 1111** (18-0-1)

*Introduction to the Dental Profession*

Scope of dentistry, specialties (Prosthodontics, Periodontics, Endodontics, Pediatric Dentistry, Orthodontics, Oral Surgery, Oral Pathology, Public Health). Research and teaching career opportunities.

**DBM 3211** (18-0-1)

*Practice Management*

Practice management and organizational theory, economic theory, practical aspects of managing a Dental practice.

**DBE 3211** (18-0-1)

*Ethics & Jurisprudence*

Ethical and legal issues relating to the practice of Dentistry.

**DBT 3111** (18-0-1)

*Patient Management*

Recognition of anxiety, interviewing techniques, history taking, behavior management, patient relations.

**Biochemistry**

Professor and Chairman: K.H. Woodside; Professor: E.E. Groseclose; Associate Professors: R.E. Block; E.O. Keith

**DBC 1114** (72-0-4)

*Biochemistry*


**DBN 1221** (18-0-1)

*Dental Nutrition*

Principles of nutrition, biochemical roles of dietary constituents, digestion, absorption, biochemical roles, and therapeutic potentials of foodstuffs and their constituents.

**Endodontics**

Professor and Chairman: S.Oliet; Professors: P.Pullon, P. Zelikow; Clinical Professor: R.Uchin; Visiting Professors: S.Seltzer, D.Arens, C.Torneck, M.Goldman; Clinical Associate Professors: S. Dorn, H.Wiener; Clinical Assistant Professor: M.Taylor

**DEC 3121** (18-0-1)

*Clinical Endodontics*

Fundamental principles of the practice of clinical endodontics, prevention of pulpal disease, diagnosis of periapical disease and treatment procedures of pulpotomy, pulpectomy, endodontic therapy, and endodontic surgery.

**DET 2212** (18-54-2)

*Endodontic Technique*

Concepts of endodontics, using psychomotor skills, uncomplicated endodontic procedures, clinically acceptable endodontic treatment. Scope of endodontic therapy, basic concepts and clinical aspects of endodontics.

**Microbiology**

Chairman and Professor: H.E. Laubach; Professor: H.Hada; Associate Professor: D.Burris

**DMC 1214** (72-0-4)

*Microbiology*

Basic medical aspects of immunology, bacteriology, virology, mycology, and parasitology, including the taxonomy, morphology, epidemiology, growth cycles, pathogenesis, and treatment.
Oral Medicine
Chairman and Clinical Professor: H. Kaplan; Professors: A. Greber, R. Kaufman, H. Remnick, S. Stahl; Clinical Professors: A. Ponce, E. Reetz; Visiting Professor: M. Goldman; Associate Professors: M. Bayona, B. Feingold, R. Sculthorpe; Assistant Professors: R. Klein, S. Snyder, J. Stasio; Clinical Assistant Professor: S. Caplan

DMA 2211 (18-0-1) Anesthesia & Pain Control I (Local)
Theory of nerve conduction, principles of action potential, mode of action of local anesthetics, polarity in conduction of impulses.

DMA 3121 (18-0-1) Analgesia & Pain Control II (General)
This course introduces those techniques and medications which are available to minimize, eliminate or alter pain perception and reaction to pain in the dental setting. Topics cover from the use of oral, parenteral and inhalation agents to eliminate pain.

DMB 3111 (18-0-1) Biostatistics
Methodology of statistical evaluation. Perform statistical evaluation, reason for proper statistical design; the value of statistical design to proper research design.

DME 3111 (18-0-1) Evidence-Based Clinical Dental Medicine
Methods for critical evaluation of scientific literature and research. Differentiate between well-designed and poorly-designed research, formulate a well-designed research project. Research evaluation and literature review. Introduction to the reasons for studying scientific method and evaluating literature.

DMM 3111 (18-0-1) Medicine I
Cardiovascular disease, pulmonary disorders, endocrinology and metabolism, allergy and immunology, hematology and oncology, infectious diseases, dermatology, nephrology and genitourinary disorders, gastroenterology, rheumatology, neuromuscular diseases, bone and joint disorders and geriatrics.

DMM 3221 (18-0-1) Medicine II
Relevant immunologic mechanisms, humoral and cell-mediated immunity, immunoglobulins, mechanism of acute allergic symptoms, anaphylaxis, and miscellaneous mechanisms, lymphoproliferative disorders, Hodgkin’s and non-Hodgkin’s lymphomas, sarcoidosis, amyloidosis, types of infectious agents, and routes of transmission.

DMS 4111 (18-0-1) Oral Manifestation of Systemic Disease
Clinical manifestations of common systemic disorders in making a tentative presumptive diagnosis and developing a differential diagnosis.

DMO 2211 (18-0-1) Oral Medicine I (Physical Diagnosis)
Comprehensive medical history and physical examination of head and neck. Specific medical laboratory tests to interpret and integrate their results with the physical examination.

DMO 3121 (18-0-1) Oral Medicine II (Oral Diagnosis)
The pathophysiology of primary oral and head and neck disease, systemic pathology manifesting in the head and neck and oral cavity. Differential diagnosis
of oral and head and neck pathology based on specific organ systems.

**DMO 3231 (18-0-1)**

*Oral Medicine III (Oral Diagnosis)*

Pathophysiology of the head and neck and oral structures both as primary pathology or secondary systemic pathology strengthen the clinical appreciation of oral and head and neck pathology.

**DMR 2111 (18-0-1)**

*Radiology I*

Intraoral radiographic technique and interpretation, making diagnostic-quality intraoral roentgenograms with minimal radiation exposure to the patient.

**DMR 2221 (18-0-1)**

*Radiology II*

Radiographic technique and radiographic differential diagnosis of various dental disorders, extraoral radiographic techniques.

**Oral and Maxillofacial Surgery**

Clinical Professors: H. Baumash, H. Kaplan; Visiting Professor: R. Fonseca; Clinical Associate Professors: T. Splaver, M. Zola

**DSR 2211 (18-0-1)**

*Oral & Maxillofacial Surgery*

Fundamentals of tooth extraction, soft tissue surgery, patient evaluation, management of medical-dental emergencies, surgical management complications, salivary glands, cysts and systemic disease or drug involvement. Dento-facial orthopedics and trauma.

**Orthodontics and Pediatric Dentistry**

Acting Chairman and Professor (Pediatric Dentistry): H. Turner; Chairman and Clinical Professor (Orthodontics): M. Meister; Professor (Orthodontics): J. Kronman; Clinical Professor: A. Mannis; Clinical Associate Professor: K. Ellins

**DOP 2211 (18-0-1)**

*Clinical Orthodontics*

Principles of orthodontics and dentofacial orthopedics. Biology of tooth movement, biomechanics, anchorage control, force characteristics, treatment appliance therapy.

**DOP 2222 (18-34-2)**

*Orthodontic Technique*

Concepts of mechanotherapy, technical procedures, and the armamentarium used in clinical orthodontics. Clinical exposure, design and placement of appliances for limited orthodontic treatment. Patient diagnostic evaluation and problem-solving skills to accurately recognize, describe, and evaluate age-appropriate normal occlusions, as well as orthodontic and dentofacial problems.

**DOP 2232 (18-54-2)**

*Pediatric Dentistry*

Behavioral and interpersonal components of working with children, basic information related to pediatric dentistry, concepts of facial and dental growth and development, primary and permanent teeth.

**Pathology**

Chairman and Professor: M. A. Khin; Professor Emeritus: D. C. Bergman; Professors: P. Pullon, D. Stern; Associate Professor: K. Khin; Clinical Associate Professor: L. Lang, III; Clinical Assistant Professors: J. Mones, R. Ziegler; Clinical Instructor: C. Carson

**DPA 2113 (54-0-3)**

*General Pathology*

Concepts of pathology, systematic diseases, etiology, pathogenesis, morphologic alterations and effects of diseases. Pro-
cesses of diseases, explanation for symptoms, signs and biochemical changes, diagnosis, prognosis and treatment of diseases.

**DPA 2222** (36-0-2)
*Oral Pathology*
Oral disease and oral manifestations of the disturbances in growth and development; diseases of microbial origin; injury and repair; metabolic disturbances and nutrition; diseases of specific systems, both oral/head and neck and organ system pathology, manifesting in the oral cavity/head and neck region.

**Pharmacology**
*Chairman and Associate Professor: L. Crespo; Assistant Professors: M.D. Hill, A.C. Trinidad*

**DPH 2114** (72-0-4)
*Pharmacology I (General)*
Pharmacological concepts and principles, clinical indications, contraindications, risks, complications, and toxicity of drugs and pharmacological agents.

**DPH 2224** (72-0-4)
*Pharmacology II (Dental Therapeutics)*
Particular emphasis on the drugs and drug interactions important to the dentist as well as the principles and concepts of pharmacology and pharmacological actions and drug interactions.

**Physiology**
*Chairman and Associate Professor: S. Taraskevich; Associate Professors: J. Leedham, D.L. Palazzolo, A. Posner*

**DPY 1217** (126-0-7)
*Medical Physiology*
Physical and chemical factors and processes responsible for the development, progression and procreation of life, organ systems approach, cell function, membrane translocation, electrophysiology, muscle physiology, neurophysiology, and cardiovascular, renal, respiratory, gastrointestinal, endocrine and nervous systems.

**Periodontics**
*Chairman and Professor: S. Stahl; Clinical Associate Professors: C. Galin, M. Rosenberg*

**DPP 1111** (18-0-1)
*Disease Prevention*
Disease prevention as a basis for clinical dental practice, dental caries and periodontal disease as dental disease processes, the basic concepts of disease prevention, patient-centered and community-centered modes of treatment, fluoride role of bacteria in disease prevention, methods of clinical research, relationship between caries and periodontal disease processes.

**DPE 1111** (18-0-1)
*Periodontics I*
Anatomical and histologic structures of the periodontium, recognition of the health of the periodontium, periodontal diagnosis, instrumentation and periodontal charting assessing the state of gingival health. Overview of periodontics, definitions of basic terms.

**DPE 1221** (18-0-1)
*Periodontics II*
Contents of the normal gingival crevice microbiology, gingival microbiota, formation of plaque. Correlate clinical procedures with the scientific (basic science) rationale, scope of periodontics, signs and symptoms of gingival health, basic science data supporting the clinical observations, recording of clinical data, and the ability to perform treatments designed to maintain gingival health.
Periodontics III
Earliest gingival inflammatory lesion, gingivitis, signs and symptoms, underlying etiology, microbial shifts, diagnosis and treatment of gingivitis and the rationale for treatment. Clinical, microbiologic and histologic responses to local irritants, host responses, inflammation and loss of attachment.

Periodontics IV
Histopathology of periodontal lesion, root planing, early periodontitis, gingivectomy, histopathology of injury and repair, mobile tooth, diagnosis and treatment of the early gingival/periodontal lesion, rationale for maintenance of gingival health.

Periodontics V
Diagnosis and treatment of early to moderate periodontitis, etiology and histopathology, various treatment modalities, flap surgery, etiologic factors reduce pocket depth, regenerative techniques and augmentive procedures, rationale of flap surgery, root access.

Periodontics VI
Early-to-moderate periodontitis, etiology and histopathology, augmentation techniques, frenectomies and frenotomies, free gingival grafts, connective tissue grafts, rationale and limitations of treatment procedures.

Periodontics VII
Dental implantology, replacing lost natural dentition, diagnosis and treatment procedures, goals and limitations, periodontal/prosthetic role in dental implantology, diagnosis, implant placement, maintenance of periodontal health, clinical and histologic data, microbiology of crevice/implant environment.

Periodontics VIII
Learning opportunities, assisting in ongoing research, clinical experience in areas of interest; enhance student dental education by selecting areas of personal interest, outline objectives, outcomes assessment, diagnosis and treatment of periodontal disease.

Restorative Dentistry
Clinical Professor and Chairman: E. A. Reetz; Clinical Professors: F. Kohler; L. Krasne; Clinical Associate Professors: M. Berger, A. Gotlieb, P. Keller, J. McGee

Principles of Dental Materials
Science of dental materials: properties, applications and limitations of materials used in dentistry, and clinical behavior of dental materials. Biomaterials and material science, mechanical and physical properties of dental materials, and their clinical applications and usage.

Restorative Dentistry & Dental Materials I
Tooth morphology, study of occlusion, biological and clinical perspectives of dental anatomy, comparative dental anatomy, and form and function with emphasis on occlusion and waxing procedures, and occlusal analysis.

Restorative Dentistry & Dental Materials II
The course will introduce the basic concepts of dental decay, its prevention and surgical correction, basic concepts of cavity preparation and dental restoration, develop competent psychomotor skills.
DRD 1136  (54-162-6)
Restorative Dentistry & Dental Materials III
This course will teach appropriate use of the terminology and instruments, psychomotor skills of tooth preparation, provisional and final restoration, prepare teeth for single or multiple unit cast fixed prosthodontic restorations, and fabricate provisional restorations for single or multiple unit restorations.

DRD 2146  (54-162-6)
Restorative Dentistry & Dental Materials IV
Fundamental technical knowledge, concepts and skills, diagnose and treat oral conditions that require the replacement of lost teeth and their associated structures with complete and partial removable dentures.

Clinical Patient Care
(Comprehensive)

Semester hours will be assigned depending on clinic hours and student's year of study.

The student will incorporate the knowledge gained from prior studies while treating patients in the dental clinics. The student will develop the essential skills necessary for comprehensive patient care including diagnosis and oral medicine, periodontics, endodontics, orthodontics, restorative dentistry, oral surgery, pediatric dentistry, radiology, and emergency dental care; all under the direct supervision of the faculty.
EMERITUS FACULTY

Donald C. Bergmann  
Emeritus Professor,  
Pathology  
B.S. - 1942  
Baldwin-Wallace College  
D.O. - 1945  
Kirksville College of Osteopathic Medicine  
Fellow, American College of Pathologists  

Carl L. Brumback  
Emeritus Professor,  
Community Medicine  
A.B. - 1936  
University of Kansas  
M.D. - 1943  
University of Kansas  
M.P.H - 1948  
University of Michigan  
Fellow, American College of Preventive Medicine  

Edward D. Hersh  
Emeritus Professor,  
Ophthalmology  
D.O. - 1940  
Kirksville College of Osteopathic Medicine  
Fellow, American Osteopathic College of Ophthalmology and Otorhinolaryngology  

Frances Higginbotham  
Emeritus Professor,  
Anatomy  
A.B. - 1962  
West Virginia University  
M.S. - 1964  
West Virginia University  
Ph.D. - 1966  
West Virginia University  

Stanley B. Kaye  
Emeritus Professor,  
Surgery  
B.A. - 1949  
University of Arizona  
D.O. - 1954  
University of Health Sciences College of Osteopathic Medicine  
Fellow, American College of Osteopathic Surgeons  

Harold Kirsh  
Emeritus Associate Professor,  
Surgery  
D.O. - 1946  
Philadelphia College of Osteopathic Medicine  
Fellow, American Osteopathic College of Proctology  

Michael A. Longo  
Emeritus Professor,  
Surgery  
B.S. - 1942  
St. John's University  
D.O. - 1946  
University of Health Sciences College of Osteopathic Medicine  
Fellow, American College of Osteopathic Surgeons  

Paul Magallan  
Emeritus Associate Professor,  
Pharmacy Administration  
B.S.,Pharm. - 1945  
University of Rhode Island  
B.S. - 1948  
Memphis State University  

Charles B. Radium  
Emeritus Professor,  
Surgery  
M.D. - 1961  
George Washington University  
College of Medicine  
Fellow, American College of Surgeons  

FULL TIME FACULTY

Carmen Aceves-Blumenthal  
Associate Professor,  
Pharmacy Practice  
B.S.,Pharm. - 1977  
University of Illinois  
M.S. - 1984  
De Paul University  
Fellow, American Society of Consultant Pharmacists  

Sultan S. Ahmed  
Assistant Professor,  
Physician Assistant Studies  
M.B.B.S. - 1978  
Dacca University, Bangladesh  
P.A. - 1988  
Bayley Seton Hospital PA Program  

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Lunise Alfred
Assistant Professor,
Pharmacy Practice
Pharm.D. - 1995
University of Florida

Lori T. Andersen
Assistant Professor,
Occupational Therapy
B.S. - 1976
Springfield College
M.S. - 1979
Medical College of Virginia

Ted G. Barlow
Assistant Professor,
Pharmacy Practice
B.S.Pharm. - 1993
University of Kansas
Pharm.D. - 1995
University of Kansas

Michael Barris
Assistant Professor,
Optometry
A.B. - 1966
University of Rochester
M.A. - 1972
City University of New York
Ph.D. - 1976
City University of New York

Manuel Bayona
Associate Professor,
Public Health
B.S. - 1971
National University of Mexico
M.D. - 1977
National University of Mexico
M.Sc. - 1979
National University of Mexico
Ph.D. - 1985
Johns Hopkins University

Genia Beasley
Instructor,
Optometry
B.S. - 1981
North Carolina University
O.D. - 1994
Nova Southeastern University
College of Optometry

Donna Behre
Assistant Professor,
Pharmacy Practice
B.S. - 1992
University of Pittsburgh
Pharm.D. - 1994
University of Florida

Rami Ben-Joseph
Assistant Professor,
Pharmacy Administration
B.S. - 1990
Hebrew University
Ph.D. - 1996
University of Florida

Marshall Berger
Associate Professor,
Restorative Dentistry
D.D.S. - 1962
University of Illinois College of Dentistry

Manuel Bergman
Assistant Professor,
Optometry
B.H.L. - 1943
Sperdus College
O.D. - 1945
Illinois College of Optometry
Bridget Bernstein  
Assistant Professor,  
Pharmacy Practice  
B.S. - 1991  
University of South Florida  
Pharm.D. - 1995  
Nova Southeastern University College of Pharmacy

Mary T. Blackinton  
Assistant Professor,  
Physical Therapy  
B.S./P.T. - 1983  
University of Maryland  
M.S. - 1991  
Nova Southeastern University

Cyril Blavo  
Professor of Pediatrics,  
Professor of Public Health  
B.S. - 1979  
Abilene Christian University  
M.S. - 1980  
Abilene Christian University  
D.O. - 1984  
Texas College of Osteopathic Medicine  
M.P.H.&T.M. - 1988  
Tulane University School of Public Health

Ronald E. Block  
Associate Professor,  
Biochemistry  
B.S. - 1963  
College of Charleston  
M.S. - 1966  
Clemson University  
Ph.D. - 1969  
Clemson University

James A. Boesiger  
Assistant Professor,  
Physician Assistant Studies  
B.A./P.A. - 1985  
Lake Erie College Physician Assistant Program  
M.S.S. - 1993  
United States Sports Academy

Edgar B. Bolton, Jr.  
Associate Professor,  
Internal Medicine  
B.S. - 1965  
Central Michigan University  
D.O. - 1969  
Philadelphia College of Osteopathic Medicine

Tami M. Boudreaux  
Instructor,  
Physical Therapy  
B.S./P.T. - 1983  
Louisiana State University  
Medical Center

Abigail Brodie  
Associate Professor,  
Restorative Dentistry  
D.M.D. - 1983  
University of Pennsylvania College of Dental Medicine

Donald E. Burris  
Assistant Professor,  
Microbiology  
B.S. - 1976  
Ohio University  
M.S. - 1979  
University of Pittsburgh  
Ph.D. - 1986  
Washington State University

Eli Carmeli  
Associate Professor,  
Physical Therapy  
B.S. - 1988  
Tel Aviv University  
Ph.D. - 1993  
Technion Institute of Technology

Regina Chen  
Instructor,  
Physician Assistant Studies  
B.S./P.A. - 1992  
University of Florida School of Medicine  
Fellow, American Academy of Physician Assistants  
Fellow, Florida Academy of Physician Assistants

Martha Clendenin  
Professor,  
Humanities  
B.S. - 1950  
Rutgers University  
M.Ed. - 1955  
Temple University  
Ed.D. - 1965  
Temple University

Stephen M. Cohen  
Assistant Professor,  
Physician Assistant Studies  
B.S./P.A. - 1984  
University of Alabama  
Birmingham Medical Center  
M.S.H.A. - 1995  
LaSalle University Carnegie School of Business  
Fellow, American Academy of Physician Assistants  
Fellow, Florida Academy of Physician Assistants

Robert J. Colosimo  
Assistant Professor,  
Pharmacy Practice  
B.S. - 1987  
Florida Atlantic University  
Pharm.D. - 1991  
Nova Southeastern University  
College of Pharmacy
Gerald R. Conover  
**Professor, Anatomy**  
- B.S. - 1964  
  University of Michigan  
- M.S. - 1967  
  University of Michigan  
- Ph.D. - 1969  
  University of Michigan  

Rachel Anastasia Coulter  
**Assistant Professor, Optometry**  
- B.A. - 1983  
  Duke University  
  Pennsylvania College of Optometry  

Carol Courtney  
**Assistant Professor, Physical Therapy**  
- B.S. - 1983  
  Wichita State University  
- B.S. - 1985  
  Washington University  
- M.H.S. - 1994  
  Louisiana State University  
- M.A.S. - 1995  
  University of Southern Australia  

Lynn M. Crespo  
**Associate Professor, Pharmacology**  
- B.A. - 1980  
  Indiana University  
- Ph.D. - 1985  
  State University of New York  

Stanley Crossman  
**Professor, Optometry**  
- O.D. - 1948  
  Pennsylvania College of Optometry  

Raul R. Cuadrado  
**Professor, Epidemiology and Public Health**  
- B.S. - 1961  
  Yale University  
- M.P.H. - 1963  
  Yale University  
- Dr.P.H. - 1968  
  University of Michigan  

Karen Daniel  
**Assistant Professor, Pharmacy Practice**  
- Pharm.D. - 1994  
  University of Florida College of Pharmacy  

Sudip K. Das  
**Assistant Professor, Pharmaceutical Science**  
- B.Pharm. - 1980  
  Jadavpur University, India  
- M.Pharm. - 1982  
  Jadavpur University, India  
- Ph.D. - 1988  
  Jadavpur University, India  

John E. Davenport  
**Assistant Professor, Family Medicine**  
- B.S. - 1982  
  State University of New York  
- M.R.E. - 1987  
  New Orleans Baptist Theological Seminary  
- D.P.M. - 1991  
  Barry University  

Lisa M. Deziel-Evans  
**Associate Professor, Pharmacy Practice**  
- B.S. - 1983  
  Mercer University Southern School of Pharmacy  
- Pharm.D. - 1984  
  Mercer University Southern School of Pharmacy  
- Fellow, American Society of Hospital Pharmacists  

Morton A. Diamond  
**Professor of Physician Assistant Studies, Associate Professor of Internal Medicine, Professor of Public Health**  
- A.B. - 1959  
  Cornell University  
- M.D. - 1963  
  State University of New York  
- Fellow, American College of Physicians  
- Fellow, American College of Cardiology  
- Fellow, American Heart Association  

Lori B. Dribin  
**Professor, Anatomy**  
- B.A. - 1972  
  Northwestern University  
- M.S. - 1973  
  Northwestern University  
- Ph.D. - 1975  
  Northwestern University  

Suze Dudley  
**Associate Professor, Occupational Therapy**  
- B.S. - 1969  
  Tufts University  
- M.S. - 1976  
  Florida International University  
- Fellow, American Occupational Therapy Association  

Sandee Dunbar  
**Assistant Professor, Occupational Therapy**  
- B.S. - 1982  
  Loma Linda University  
- M.S. - 1983  
  New York University  

Thomas M. Ellington  
**Assistant Professor, Pharmacy Practice**  
- B.S. - 1983  
  East Tennessee State University  
- Pharm.D. - 1987  
  Mercer University
FACULTY MEMBERS

Alfred Ellin
Visiting Professor,
Restorative Dentistry
D.D.S. - 1954
University of Pennsylvania College of Dental Medicine

Kerry Estes
Assistant Professor,
Pharmaceutical Sciences
B.A. - 1973
Kalamazoo College
M.S. - 1976
Michigan State University
Ph.D. - 1982
University of Florida

Barry Feingold
Associate Professor,
Emergency Medicine
B.S. - 1971
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<th>Name</th>
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<th>Degree 3</th>
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<tr>
<td>Doug Covey</td>
<td>Clinical Assistant Professor, Pharmacy Practice</td>
<td>B.S. 1980, B.S.Pharm. 1983, Pharm.D. 1985</td>
<td>University of Florida, University of Florida, University of Florida</td>
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<tr>
<td>David Cox</td>
<td>Clinical Instructor, Anesthesiology</td>
<td>D.O. 1990</td>
<td>Nova Southeastern University College of Osteopathic Medicine</td>
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<tr>
<td>Michael Creamer</td>
<td>Visiting Assistant Professor, Family Medicine</td>
<td>D.O. 1987</td>
<td>Chicago College of Osteopathic Medicine</td>
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<tr>
<td>Stella Cross</td>
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<td>A.D.N. 1971, Ph.D. 1990</td>
<td>Union University, Southwest University</td>
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<tr>
<td>Carlos F. Corrales</td>
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<td>Homer Corteguera</td>
<td>Clinical Professor, Psychiatry</td>
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<td>Stephen Cosentino</td>
<td>Clinical Assistant Professor, Family Medicine</td>
<td>D.O. 1989</td>
<td>Nova Southeastern University College of Osteopathic Medicine</td>
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<tr>
<td>Gordon Couch</td>
<td>Clinical Associate Professor, Obstetrics and Gynecology</td>
<td>M.D. 1963</td>
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<td>Richard Couch</td>
<td>Clinical Assistant Professor, Surgery</td>
<td>D.O. 1992</td>
<td>Philadelphia College of Osteopathic Medicine</td>
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<tr>
<td>Gary J. Cowen</td>
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<td>B.A. 1969, M.D. 1974</td>
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<td>Doug Covey</td>
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<td>B.S. 1980, B.S.Pharm. 1983, Pharm.D. 1985</td>
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</table>

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Ph.D. 1988  
Jadaupur University of India
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<th>Name</th>
<th>Title</th>
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<th>Field</th>
<th>Year</th>
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<tr>
<td>S. Robert Davidoff</td>
<td>Clinical Associate Professor,</td>
<td>Restorative Dentistry</td>
<td>D.M.D. - 1969</td>
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<td>Tufts University College of Dentistry</td>
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<td>Allen Davis</td>
<td>Clinical Assistant Professor, Pharmacy Practice</td>
<td>Pharm.D. - 1988</td>
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<td>Michael Davis</td>
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<td>Mitchell Davis</td>
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<td>Kimberly Dean</td>
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<td>D.O. - 1988</td>
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<td>Mark B. Deus</td>
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<td>University of Health Sciences</td>
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<td>Terry DeFilippo</td>
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<td>Anthony M. Degordon</td>
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<td>Emory University College of Medicine</td>
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<td>Hector M. Delgado</td>
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<td>Jorge Del Toro</td>
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<td>Eugene De Matte</td>
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<td>M.D. - 1970</td>
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<tr>
<td>James Deming</td>
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<tr>
<td>Izidro B. DeMoraes</td>
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<td>Jeffrey S. Dennis</td>
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<td>Boston University School of Medicine</td>
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<tr>
<td>Ralph DePalma</td>
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<td>New York University School of Medicine</td>
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<tr>
<td>Paul E. Dermer</td>
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<tr>
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<td></td>
<td>College of Osteopathic Medicine and Surgery</td>
</tr>
</tbody>
</table>

**Note:** The tables above summarize the academic qualifications of the faculty members at a university, including their degrees and institutions.
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M.P.H. - 1991  
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Robert Goldman  
Clinical Professor,  
Periodontics  
D.D.S. - 1968  
Case Western University College of Dentistry
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<td>Eric Goldsmith</td>
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<td>Surgery</td>
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<td>University of Osteopathic Medicine and Health Sciences</td>
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<td>Internal Medicine</td>
<td>M.D. - 1961</td>
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<td>Alan S. Graubert</td>
<td>Clinical Associate Professor,</td>
<td>Family Medicine</td>
<td>B.S. - 1958</td>
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<td>Nova Southeastern University College of Osteopathic Medicine</td>
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<td>Maxwell Greenhouse</td>
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<td>Osteopathic Manipulative Medicine</td>
<td>B.A. - 1939</td>
<td>Webster University</td>
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<td>Jeffrey Greiff</td>
<td>Clinical Assistant Professor,</td>
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<td>M.D. - 1974</td>
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</table>
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Clinical Assistant Professor,  
Optometry  
B.A. - 1981  
Indiana University  
O.D. - 1985  
Indiana University College of Optometry
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<td>David G. Hooper</td>
<td>Clinical Associate Professor, Family Medicine</td>
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<td>B.S. - 1972 New York Institute of Technology</td>
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<td>Larry Horvath</td>
<td>Clinical Associate Professor, Neurosurgery</td>
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<td>James G. Hull</td>
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<td>B.S. - 1948 Stetson University</td>
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<td>Burton S. Hutman</td>
<td>Clinical Assistant Professor, Psychiatry</td>
<td>M.D. - 1960 University of Pittsburgh</td>
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<td>Marci E. Irwin</td>
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<td>Howard M. Israel</td>
<td>Clinical Assistant Professor, Psychiatry</td>
<td>A.B. - 1964 Hunter College</td>
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<td>Jack M. Jackson</td>
<td>Clinical Assistant Professor, Oral Surgery</td>
<td>D.D.S. - 1965 University of Detroit College of Dentistry</td>
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<td>Clinical Assistant Professor, Obstetrics and Gynecology</td>
<td>B.A. - 1976 State University of New York at Binghamton</td>
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Jerry Jacobs  
Clinical Professor, Oral Surgery  
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North Georgia College  
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<table>
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<tr>
<th>Name</th>
<th>Title</th>
<th>Specialty</th>
<th>Degrees</th>
<th>Institutions</th>
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<tbody>
<tr>
<td>Dipnarine Maharaj</td>
<td>Clinical Assistant Professor</td>
<td>Internal Medicine</td>
<td>B.S. - 1973</td>
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<td>M.D. - 1978</td>
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<td>Seth Mahler</td>
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<td></td>
<td>B.S. - 1956</td>
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<td>M.D. - 1960</td>
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<td>Charles Mandel</td>
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<td>Ronald Martin Mall</td>
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<td>Alan Marcus</td>
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<th>Title</th>
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<th>Degree</th>
<th>Year</th>
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</tbody>
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<th>Name</th>
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