Nova Southeastern University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award bachelor's, master's, educational specialist, and doctoral degrees.

Nova Southeastern University Health Professions Division does not discriminate on the basis of age, color, national and ethnic origin, sex, religion or handicap in the administration of its employment and educational policies, student admission policies, scholarship and loan programs and other programs administered by the University.

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 and Allied Health 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 Professional and Business Regulation, 2009 Apalachee Parkway, Tallahassee, FL 32301.
COLLEGE OF OSTEOPATHIC MEDICINE
COLLEGE OF PHARMACY
COLLEGE OF OPTOMETRY
COLLEGE OF ALLIED HEALTH

1750 N.E. 167th Street • North Miami Beach, FL 33162-3017
(305) 949-4000
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**NOVA SOUTHEASTERN UNIVERSITY HEALTH PROFESSIONS DIVISION**

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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, clients, 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, 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.
Interim President
Letter From The Chancellor

In January, 1994, we completed a merger with Nova University, creating Nova Southeastern University, the 36th largest private university in student enrollment and financially the 47th largest private university in the United States. Our four colleges are now collectively known as the Health Professions Division of Nova Southeastern University.

As standards for health care professionals become more rigorous, and competition for postgraduate training more competitive each year, the Health Professions Division continues to improve its curriculum. We completed a ten year contract with the North Broward Hospital District for clinical affiliations for training of our medical students. Additionally, a clinical affiliation agreement with Sun Coast Hospital on Florida's West Coast created a Regional Academic Center. A Seven Year Family Medicine (SYFAM) program has been implemented to provide primary care oriented medical students a one-track career path complete with guaranteed postgraduate training slots.

As pharmacists assume a greater responsibility for assessing the efficacy and progress of drug therapy, the preferred professional degree has become the Doctor of Pharmacy (Pharm. D.), with its emphasis on clinical care. The College of Pharmacy now admits all pharmacy students into the doctoral program. The College of Optometry has implemented a new primary care residency and is well positioned to participate in emerging managed care settings alongside disciplines such as ophthalmology.

The College of Allied Health offers the only accredited Physician Assistant Program in South Florida, and two new degree programs, the Master of Occupational Therapy and the Master of Physical Therapy. Many other programs are on the drawing board.

We are leading the nation in training health professionals to serve our nation's growing need for primary care service, and our commitment to excellence in professional education and to caring service to the community has never been stronger.

Morton Terry, D.O.
Chancellor
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Morton Terry, A.B., D.O., M.Sc., F.A.C.O.I., Chancellor
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Johnathan Rose, B.S., M.S.H.A., Vice Chancellor for Operations
Stanley Cohen, B.S., M.Ed., Ed.D., Vice Provost
Morton Morris, D.O., J.D., Vice Provost for Continuing Education
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Mary R. Smith, Registrar
Patrick J. Gorman, B.S.H.A., Director of Student Financial Aid
Sara Schoninger, B.S., Director of Medical Communications
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 Miami, Florida
President, Westchester General Hospital
ACADEMIC CALENDAR

(This is a provisional calendar for the years 1994-1996, 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.)

1994-1995
Monday, September 5, 1994
Tuesday, September 6, 1994
Thursday, September 15, 1994
Wednesday, November 23, 1994
Monday, November 28, 1994
Friday, December 9, 1994
Monday, December 12, 1994
Friday, December 16, 1994
Tuesday, January 3, 1995
Monday, January 16, 1995
Friday, April 7, 1995
Monday, April 17, 1995
Friday, May 26, 1995
Saturday, May 27, 1995
Sunday, May 28, 1995

LABOR DAY - No classes
ROSH HASHANAH - No classes
YOM KIPPUR - No classes
THANKSGIVING RECESS begins 10:30 PM
Classes Resume
Classes End
Final Examination begins
WINTER RECESS begins 5:00 PM
Classes Resume
MARTIN LUTHER KING DAY - No classes
SPRING RECESS begins 10:30 PM
Classes Resume
Senior Day / Graduation Rehearsal
Senior Awards Dinner
Graduation

1995-1996
Monday, September 4, 1995
Monday, September 25, 1995
Wednesday, October 4, 1995
Wednesday, November 22, 1995
Friday, December 22, 1995
Tuesday, January 2, 1996
Monday, January 15, 1996
Friday, March 29, 1996
Monday, April 8, 1996
Friday, May 24, 1996
Saturday, May 25, 1996
Sunday, May 26, 1996

LABOR DAY - No classes
ROSH HASHANAH - No classes
YOM KIPPUR - No classes
THANKSGIVING RECESS begins 10:30 pm
Winter Recess begins
Classes Resume
MARTIN LUTHER KING DAY - No classes
SPRING RECESS begins 10:30 pm
Classes resume
Senior Day / Graduation Rehearsal
Senior Awards Dinner
Graduation
Nova Southeastern University, the second largest independent institution of higher learning in the state of Florida, is the product of the merger of Nova University and Southeastern University of the Health Sciences.

In October, 1993, officers of the two institutions agreed to combine operations and academic programs. The combined institution became Nova Southeastern University (NSU), with Southeastern's programs forming NSU's Health Professions Division, effective January 1, 1994.

Nova University, founded in 1964, offered bachelor's, master's, and doctoral programs in law, education, business, psychology, computer science, oceanography, social and systemic studies, and hospitality.

Southeastern University of the Health Sciences was Florida's only private, not-for-profit institution of higher learning entirely dedicated to health care education. The University was born from the commitment of osteopathic physicians to establish a college of osteopathic medicine in Florida.

The Southeastern College of Osteopathic Medicine (SECOM), as it was first known, was chartered in 1979, admitted its first class in 1981, and was soon accredited by the American Osteopathic Association.

In the Fall of 1987, the College of Pharmacy was established and is now accredited by the American Council on Pharmaceutical Education.

On December 6, 1988, the application to establish a College of Optometry was approved, and, on the same day, the State Board of Independent Colleges and Universities conferred university status upon the institution, which then became Southeastern University of the Health Sciences. In 1989, the College of Optometry admitted its charter class, and was accredited in 1993.

In 1993, the University established a College of Allied Health Sciences with its Physician Assistant Program as the first offering. In 1994, it began programs in Occupational Therapy and Physical Therapy.

Thus, in one decade, the institution grew into a multi-disciplinary university with an enrollment of over 1,200 medical, pharmacy, optometry and allied health students and a twenty million dollar campus. Now it has become a larger, broader-based university serving multiple disciplines and providing numerous educational opportunities as Nova Southeastern University.
Health Professions Division Campus

The Nova Southeastern University Health Professions Division campus comprises four modern buildings designed for educational, administrative and student functions. Situated in North Miami Beach in a quiet residential suburb close to transportation, recreation and housing, the campus is ideal for both students and faculty.

The Morton Terry Building is the University’s administrative hub with five stories and 154,000 square feet of interior space used for classrooms, laboratories and offices. Located on the first floor is the University Clinical Center, which provides out-patient, primary care for the community and clinical training for students. The Terry Building also contains faculty and administrative offices for the College of Osteopathic Medicine, the College of Optometry, and the College of Allied Health; research laboratories; the offices of Financial Aid, Student Affairs and Admissions; the Area Health Education Center; the Audio-Visual Department; and the University Bookstore.

The University’s original structure has become the Pharmacy Building. The completely renovated, three-level structure houses pharmacy laboratories, model community and hospital pharmacy dispensaries for student clinical training, plus faculty and administrative offices for the College of Pharmacy and the Drug Information Center. The latter provides pharmaceutical information to health care professionals.

Completed in 1982, the three-story Education Building contains two fully equipped lecture amphitheaters, two lecture halls, two state-of-the-art laboratories and four preparation rooms used for research.

The Student Activities Building, completed in 1988, is used for recreation and student activities. It houses the library and HARVEY, a life-sized, computerized mannequin which simulates normal and abnormal cardiac symptoms and sounds. It has in addition a 500-seat auditorium; an osteopathic manipulative medicine laboratory; and the student cafeteria, lounge and gymnasium.
Financial Aid

Applicants should have specific plans for financing their professional education. This should include provision for tuition, living expenses, books, equipment, travel and miscellaneous expenses.

We encourage student applicants to investigate independent sources of funds. The Financial Aid Office will work with students to pursue all avenues concerning loans, scholarships and federal assistance programs. Separate financial aid programs are provided for the College of Osteopathic Medicine, College of Pharmacy, College of Optometry and College of Allied Health. These programs can be found under Financial Aid in the listing for the individual college. For more information on any financial aid program, contact the Financial Aid Director.

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.

Student Housing

Students must secure their own accommodations. Information concerning both on- and off-campus housing may be obtained from the Office of the Registrar. Numerous apartments, condominiums and other rental housing facilities are available within a five-mile radius of the University. Limited on-campus housing is available from the school on a first come, first served basis.

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 medical coverage for the mandatory insurance. Those with lapsed or inadequate insurance will be held financially responsible for obligations incurred prior to graduation.

Health Centers

The clinics owned and operated by the Nova Southeastern University Health Professions Division serve an important function and are an integral part of the training program. In addition, the clinics provide a vital community function by reaching areas that have traditionally been neglected by the private health-care sector.

The Broward Family Health Center, now in its sixth year of operation, is staffed and managed by the faculty of the Nova Southeastern University Health Professions Division aided by family medicine residents. The facility is used by students for clinical...
The clinic, a 16,000-square-foot structure at 1111 W. Broward Blvd., is located in a medically underserved area of Fort Lauderdale. The management of this health care facility, with the full support of Nova Southeastern University’s nearby health professions schools, guarantees quality health care for area residents.

The health center also contains a full service community pharmacy which offers a complete line of over-the-counter and prescription drugs and provides hands-on training to senior pharmacy students. Constructed as part of this unit is the Broward Family Eye Center, a full-service primary eye care facility operated for the College of Optometry. With a complete array of examining and diagnostic equipment, the facility was modeled as a successful optometric practice site to give students experience in a real-life professional setting. Faculty optometrists staff the optical laboratory and dispensary, visual field testing room, and the five examination rooms of the over 2,000-square-foot unit. The mission of the eye center is to serve the community and provide students hands-on training in optometric practice under the supervision of faculty members. Fourth-year students will spend most of their time there on clinical training rotations.

Students from the Allied Health programs (Physician Assistant, Occupational Therapy and Physical Therapy) will also use this facility for clinical training.

The University also owns and operates the Family Health Center in Opa-Locka, an underserved inner-city community in the Greater Miami area. The clinic is used as a training center for medical, pharmacy, optometry and allied health students and for family medicine residents of the College of Osteopathic Medicine. Besides its training function, the center provides much needed service to the surrounding community.

A new Clinical Center has been established in the Terry Building. It provides family medicine and pediatric care to the residents of northeast Dade County and also serves as the University Health Service which cares for students, faculty and staff.
College of Osteopathic Medicine
An Osteopathic Physician

A Doctor of Osteopathy (D.O.) is a highly-trained physician recognized to practice medicine and surgery in all 50 states on the same basis as other physicians. Osteopathic medical education encompasses all phases of medicine and all scientifically accepted modalities of treatment and emphasizes primary care. In addition, DO’s bring to the practice of medicine an added dimension in the prevention, care and treatment of patients.

Osteopathic training emphasizes the relationship between physical structure (musculoskeletal) and organic function. Consequently, DO’s view the human body as an interdependent unit rather than an assortment of separate parts and systems. To maintain or restore the harmonious relationship between structure and function, DO’s use manipulative therapy, when indicated, to facilitate healing. This form of therapy may be used alone or in combination with drugs, x-ray or surgery, or it may not be used at all, depending on the diagnosis.

“Whole patient” care, coupled with training that stresses family medicine, produces highly qualified physicians who are different by design. As a result, DO’s
give the profession unique characteristics:
• Over 65 percent of all DO's are in family practice or one of the primary care specialties, such as internal medicine, obstetrics or pediatrics.
• More than 66 percent of all DO's practice in communities whose populations are 50,000 or less.
• DO's represent only five percent of the total physician population but provide health care to ten percent of the people, some 23 million Americans.
• DO's comprise 13 percent of the total physician manpower in the Medical Corps of the Armed Forces.
Because osteopathic physicians provide something more, not something else,
communities are experiencing a phenomenal need for osteopathic services. A study of osteopathic education funded by the Kellogg Foundation calls Osteopathic Medicine “the fastest growing health care profession.” Nova Southeastern University College of Osteopathic Medicine views with pride its role in the ongoing development of osteopathic medicine.

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. Nova Southeastern University College of Osteopathic Medicine is licensed by the Florida State Board of Independent Colleges and Universities.

Requirements for Admission

Applicants for admission to 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 of one academic year of each of the following:
   - General Biology, including laboratory
   - Inorganic Chemistry, including laboratory
   - Organic Chemistry, including laboratory
   - Physics, including laboratory
   - English Composition and Literature

These are minimum academic requirements for admission to Nova Southeastern University College of Osteopathic Medicine. Students are urged to enroll in additional courses in behavioral sciences and the humanities. Embryology and genetics are also suggested.

3. All applicants are required to take the Medical College Admissions Test (MCAT). It is strongly recommended that the examination be taken in the spring of the year preceding the admission date. If the applicant feels that test scores are unsatisfactory, the examination may be retaken. Only the best set of scores is considered. All scores must be forwarded to AACOMAS (American Association of Colleges of Osteopathic Medicine Application Service), 6110 Executive Boulevard, Suite 405, Rockville, Maryland 20852. Applications for the MCAT may be obtained from your college’s pre-professional advisor’s office, the Nova Southeastern University College of Osteopathic Medicine admissions office or by writing directly to the Medical College Admission Test, 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.
Application Procedure

Inquiries for admission should be addressed to the Admissions Office, Nova Southeastern University College of Osteopathic Medicine, 1750 Northeast 167th Street, North Miami Beach, Florida 33162-3017. Nova Southeastern University College of Osteopathic Medicine 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 by writing directly to AACOMAS, 6110 Executive Boulevard, Suite 405, Rockville, Maryland 20852.

The following information must be completed before application may be reviewed by Nova Southeastern University College of Osteopathic Medicine's Admissions Committee:

1. Materials to be mailed directly to AACOMAS — must be received by January 1st:
   A. AACOMAS 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 AACOMAS).
   C. MCAT scores.

2. Materials to be mailed to the College by February 15th:
   A. Supplemental Application (sent to applicant by the College on receipt of AACOMAS application).
   B. Application fee of $50 (non-refundable).
   C. Letter of recommendation from an osteopathic physician.
   D. A letter of recommendation from the Preprofessional Committee, or, if such committee does not exist, three letters of recommendation, two from science professors and one from a liberal arts professor.

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

All application credentials must be received by the Admissions Office no later than February 15th. 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:

1. Tuition—$14,416 for 1994-95 academic year for Florida residents and $18,974 for residents of all other states. In addition, a Student Activities Fee of $100 is required.
2. Acceptance Fee—$1,000. This fee is required to reserve the accepted applicant’s place in the entering First Year Class. This advance payment will be credited to the
COLLEGE OF OSTEOPATHIC MEDICINE

tuition payment due on registration day but is not refundable in case of withdrawal. Payment of the first deposit of $250 is due no later than two weeks after the applicant’s date of acceptance. Payment of the second deposit of $750 is due March 15.

3. Pre-registration Fee—$1,000. Due May 1st, under the same conditions as Acceptance Fee.

4. Student Activities Fee—$100, payable at the time of first semester registration. All tuition and fees, less the $2,000 paid in advance, are due on or before Registration Day. Students will not be admitted to classes until their financial obligations have been met.

Note: Tuition and fees are subject to change at any time at the discretion of the Board of Trustees. Fees are neither refundable nor transferable.

Schedule of Application-Admission Cycle

June: Application cycle for following academic year begins. Inquiries are invited by Nova Southeastern University College of Osteopathic Medicine, and AACOMAS forms will be made available.

July: Credentials sent to AACOMAS are processed and applicant records sent to Nova Southeastern University College of Osteopathic Medicine. A supplementary application will then be sent to the applicant. When it is completed and returned to the Admissions Office and recommendations are received, the completed application will be evaluated for interview.

October: Personal interviews start.
March 1: Deadline for applications to AACOMAS.
April 15: Deadline for supplemental applications.
May 1: Pre-registration fee is due.

Financial Aid

The primary purpose of the Student Financial Aid Program is to help as many qualified students as possible attend and complete medical college. The primary financial responsibility for a student’s education rests with the student and family, but the economic circumstances of some families make it necessary for the student to obtain assistance from other sources.

Most aid awards are based on the financial need of the applicant. Eligibility for financial aid is determined by subtracting the expected family contribution (available resources) from the appropriate budget. The difference is the student’s computed financial need. It is the computed financial need (budget minus resources) that the financial aid office attempts to meet in making financial aid awards. Aid recipients are required to report promptly to the financial aid office any additional financial assistance, such as outside scholarships, grants, and loans, which are made. The section below provides a summary of scholarships and other sources of financial aid.
Campus Based and Institutional Programs

Federal Work Study (FWS). This program provides financial aid in the form of part-time employment to enable students to earn some of the money they need. As a rule, students will normally work five to fifteen hours per week and up to forty hours during summer and other vacation periods. A student’s free application for Federal Student Aid, Nova Southeastern University Financial Aid Application, financial aid transcripts, and all tax forms or their equivalent, must be on file for the student to be eligible.

Federal Perkins Loan. This program provides low interest rate loans to students who demonstrate financial need and meet the April 1 priority filing deadline for the free application for federal student aid.

Chancellor’s Scholarship in Osteopathic Medicine.
Amount: Full Tuition, annually renewable at the option of the Dean and school.
Eligibility: Entering Freshman; U.S. citizen or permanent resident; resident of Florida; minority status (members of minority groups considered under-represented in medicine). Selection based on overall qualifications and financial need. Recipients agree to work for the school for a year for each year they receive the scholarship.

Short Term Emergency Loans. These loans are for emergency purposes and are available with the amount and duration to be determined in each case by the Chancellor or the Bursar.

Osteopathic Profession Scholarship/Loan Programs

A.O.A.-N.O.F.Student Loan Fund. National Loans from this source are available to students who are in their third or fourth year in a college of osteopathic medicine. The maximum loan is for $2,000 with a variable interest rate from date of issuance. All loans are payable two years after graduation, or three years after graduation if the recipient serves an AOA-approved internship. Application forms are available in the Financial Aid Office.

Auxiliary to the AOA Scholarships. Students who rank in the top 20% of the class are eligible to apply for a $2,000 scholarship at the end of their freshman year.

Russell C. McCaughan Scholarship. This is a $400 scholarship awarded to one student from each osteopathic college on completion of the first year.

State Scholarships and Loans

Auxiliary to the Florida Osteopathic Medical Association Scholarship/Loan Fund. A.F.O.M.A. awards Scholarship Loans to deserving osteopathic students who are in need of financial assistance in order to pursue an osteopathic medical education. The note carries interest from its date of issuance at the rate of six percent. Applicants must be United States citizens and legal residents of the State of Florida.

Auxiliary to the Pinellas County, Florida, Osteopathic Medical Society. This is an interest-free loan of approximately $1,000. The qualifications for applicants are: residency in Pinellas County, Florida; demonstrated financial need; and good standing as a student, preferably in junior or senior year.

Florida Health Service Corps Scholarship (FHSP). This competitive
program provides comprehensive awards including full-tuition miscellaneous expense allowance and living expense stipend in exchange for year-for-year future service in underserved areas of Florida.

Georgia Osteopathic Medical Loan. Awards of up to $10,000 per year are available to legal residents of the State of Georgia accepted for admission to, or enrolled in good standing at, an osteopathic medical school. Recipients must express a willingness to practice primary care medicine in a medically underserved area in Georgia. Applications can be secured from the Financial Aid Office. Repayment can be canceled on a year-for-year basis through primary care practice in an underserved area of Georgia.

Federally Sponsored Scholarship Programs

Exceptional Financial Need (EFN) Scholarships. This federally sponsored program provides a limited number of scholarships to students whose needs analysis indicates that neither they nor their parents have any significant financial resources available to meet the cost of attending medical school. An official needs analysis report containing all student and parental financial information, Nova Southeastern University Financial Aid Application, financial aid transcripts, and all tax forms or their equivalent, must be on file for the students to be deemed eligible. Candidates’ files are reviewed in late July or early August. Note: in addition to the above eligibility criteria, to be considered for this scholarship a student must be a U.S. citizen or permanent resident. Recipients of the one-year full tuition and miscellaneous expense awards commit to practice primary care for five years.

Federal Service-Obligated Scholarships

Armed Forces Health Profession Scholarship Program (HPSP). These awards are competitive. The award will cover the costs of tuition, fees, books, supplies and a monthly taxable stipend. Recipients must repay that branch of Service (Army, Air Force, Navy) one year’s active service as a commissioned officer for each year of scholarship support. The minimum obligation is three years. For further information, contact your nearest Army, Air Force, or Navy recruiter or the Financial Aid Office.

National Health Service Corps (NHSC) Scholarships. This program provides financial benefits comparable to the HPSP program in exchange for salaried primary care practice in underserved (usually rural) areas.

Loans/Scholarships/Fellowships

Federal Stafford Loan- Subsidized. (formerly GSL). This loan program enables graduate/professional students to borrow up to $8,500 per academic year with an overall aggregate to $65,000, including undergraduate loans. These loans are government subsidized. The interest is paid by the federal government while the student is in school and during deferment and grace periods.

Federal Stafford Loan- Unsubsidized. Similar to the subsidized version, except interest accrues during in school, grace and deferment periods. For those also receiving full subsidized Stafford, annual unsubsidized limit is $10,000, aggregate
limit is $73,000.

Health Education Assistance Loan (HEAL). This is a variable interest rate, unsubsidized loan. The maximum is $20,000 per academic year to an aggregate total of $80,000; however, total aid including the HEAL loan must be within applicable budget and need limits.

Veterans Benefits. Veterans attending Nova Southeastern University College of Osteopathic Medicine are eligible to receive Veteran’s benefits under Chapters 30, 31, 32, 34 and 35. For further information and certification material, contact the Financial Aid Office.

National Medical Fellowships, Inc. This private organization makes awards based on demonstrated financial need. Awards are intended to supplement aid received from other sources. The number of awards is determined by the funds available. Eligibility Criteria: Applicants must be U.S. citizens or permanent residents who have filed a declaration of intent to become a U.S. citizen, and must be from a minority group considered under-represented in medicine (Blacks, Mexican Americans, American Indians, and mainland Puerto Ricans), and in their first two years of studies.

We encourage our student applicants to investigate independent sources of funds, such as corporations in which family or relatives are employed, and religious or fraternal groups and service organizations in the localities where the applicant or his/her family resides. Nova Southeastern University also offers a computer data base scholarship search service to assist in efforts to secure funding. The financial aid administrator stands ready to assist students in pursuing any and all of these avenues. For further information contact the financial aid office.

Requirements For Graduation

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

a) Be at least twenty-one years of age.
b) Be of good moral character.
c) Have satisfactorily passed all prescribed examinations.
d) Have satisfactorily completed the program of study required for the degree including all assignments.
e) Have satisfactorily discharged all financial obligations.
f) Take Parts I and II of the National Board Examination.
g) Attend the rehearsal and commencement ceremony during which the degree is conferred.
h) Have been a student in an accredited osteopathic college for a least four academic years.

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.
Course of Study

Nova Southeastern University College of Osteopathic Medicine’s four-year curriculum leading to the D.O. degree has for its goal the preparation of the student for the general practice of osteopathic medicine. A qualified faculty of certified and board-eligible physicians, competent Ph.D.’s, and supportive staff will carry out program objectives.

The first two years of instruction are devoted to the basic sciences (microbiology, pathology, biochemistry, physiology, and pharmacology) along with didactic studies in the clinical sciences, including osteopathic principles and practice and the humanities. Clinical sciences are introduced in the first year, and are gradually expanded with clinical correlation. “Hands-on” experiences enhance learning.

Starting with the third year, emphasis will be on clinical training, which includes teaching rotations in affiliated hospitals, clinics and health centers as well as in the offices of selected physicians. Under the direct supervision of qualified physicians, students will assume an increasingly greater share of responsibility for patient care.

After 22 months of clinical service, students will return to campus for a preinternship seminar consisting of basic and clinical science correlations, and professional and personal preparation for internship, residency and practice.

Throughout the course of study the principles and practice of osteopathic medicine, emphasizing manipulative techniques, will be applied in specific fields. Special attention will be given to important aspects of community medicine including geriatrics, ethnicultural medicine and the humanities.

**CURRICULUM OUTLINE**

**First Year, First Semester**

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**First Year, Second Semester**

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**Second Year, First Semester**

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**Second Year, Second Semester**

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Clinical Rotations

Core Rotations (Junior Year)
IMA 7124 / Internal Medicine
SGN 7108 / General Surgery
PED 7108 / Pediatrics
PED 7208 / Pediatrics
BMP 7108 / Psychiatry
FMN 7108 / Family Medicine
OBG 7108 / Obstetrics-Gynecology
FMG 7108 / Geriatrics

Core (Senior Year)
FMR 8124 / Ambulatory Rural Clinics
FME 78108 / Emergency Medicine
FMN 8108 / Family Medicine Preceptorship

Clerkship Electives (Senior Year; 6 months)
FMN 8208 / Family Medicine elective
FMR 8208 / Rural Medicine elective
FMP 8108 / Rehabilitation/Sports Medicine elective
FME 8208 / Emergency Medicine elective
FMG 8108 / Geriatric elective
FMO 8108 / OMM elective
IMA 8108 / General Internal Medicine elective
IMC 8108 / Cardiology elective
IMG 8108 / Gastroenterology elective
IMH 8108 / Hematology/Oncology elective
IMR 8108 / Rheumatology elective
IMN 8108 / Neurology elective
IMX 8108 / Radiology elective
IMI 8108 / Infectious Disease elective
IME 8108 / Endocrinology elective
IMD 8108 / Dermatology elective
IMK 8108 / Nephrology elective
IMP 8108 / Pulmonary Medicine elective
IMA 8208 / "Harvey" elective
IMA 8308 / Medical ICU elective
OBG 8108 / Obstetrics/Gynecology elective
PED 8108 / General Pediatrics elective
PED 8208 / Neonatology elective
PED 8308 / Pediatric Sub-specialty elective
PTH 8108 / Clinical Pathology elective
PTH 8108 / Forensic Pathology elective
SGN8108 / General Surgery elective
SGN 8208 / Surgical ICU elective
SOP 8108 / Ophthalmology elective
SAN8108 / Anesthesiology elective
SUR 8108 / Urology elective
SOR 8108 / Orthopedics elective
SOT 8108 / Otorhinolaryngology elective
SNE 8108 / Neurosurgery elective
SPR 8108 / Proctology elective
SCV 8108 / Cardiovascular Surgery elective
STH 8108 / Thoracic Surgery elective
BMA 8108 / Addiction Medicine elective
BMP 8108 / General Psychiatry elective

FMO 8148 / OMM Fellowship I 6 month
FMO 8248 / OMM Fellowship II 6 month
FMN 8824 / Pre-Internship Seminar

College of Osteopathic Medicine Courses

Anatomy

Chairman and Professor: G.R. Conover; Professors: L. Dribin; Professors Emeriti: A.C. Higginbotham, F.H. Higginbotham; Associate Professors: J.C. Lanning, A. Mariassey

ANA 5216 / Gross Anatomy I

72 Hours Lecture
36 Hours Laboratory

A detailed study of the structure of the human trunk and extremities, including dissection by team of students.

ANA 5323 / Gross Anatomy II

36 Hours Lecture
18 Hours Laboratory

Continuation of Anatomy II with dissection of the head and neck, excluding the brain.

ANA 5423 / Neuroanatomy

36 Hours Lecture
18 Hours Laboratory

A study of the gross structure of the brain and spinal cord and the functional relationship among their parts. Emphasis is placed upon major motor and sensory pathways and integrative mechanisms of the central nervous system.

ANA 5116 / Medical Histology and Embryology

108 Hours Lecture

A detailed study of cells, tissues and organs of the body as seen through the light microscope, involving both lectures and laboratory work. Transmission and scanning
electron micrographs are also studied. A brief introduction to human embryology from gametogenesis to formation of the trilaminar disc, including placentation, is included in this course. Development of organ systems is studied in appropriate areas of Gross Anatomy and Neuroanatomy.

Behavioral Medicine

Chairman and Professor: P. Bentley; Vice Chairman & Associate Professor: D. Shaw; Clinical Assistant Professor: N. Patel

Division of Addiction Medicine
Chairman and Professor: P. Bentley

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

BMH 5111 / Medical Ethics
18 Hours Lecture
Material presented aids the student in understanding patient-physician relationships. Dilemmas such as euthanasia, truth telling, abortion, sterilization, malpractice, and death and dying are discussed. Role-playing and case histories are presented and analyzed. Decision-making issues discussed include the allocation of resources, human experimentation, informed consent, living well, refusing treatment, mental competency, suicide, patient-physician conflicts and patient-institution conflicts.

BMH 5221 / Behavioral Medicine
18 Hours Lecture
Topics covered include the human sexual response cycle as well as the physiology and anatomy of the sexual apparatus. Alternate sexual life styles, sexuality through the life cycle, sexual violence, effects of drug and alcohol on sex function and the effects of illness and surgery on sexuality are studied. This course will provide an introduction to the field of Addiction Medicine. The disease concept of addiction will be stressed. Students will be encouraged to explore their attitudes toward caring for patients with addictive disorders.

Division of Psychiatry

BMP 6112 / Psychiatry
36 Hours Lecture
This course provides the student with a basis for the understanding of human behavior and the application of this understanding in his future role as a physician. DSM III criteria are studied and the major psychiatric disorders are discussed.
Biochemistry
Chairman and Professor: K.H. Woodside; Professor: E.E. Groseclose; Associate Professors: R.E. Block; E.O. Keith

BCH 5117 / Medical Biochemistry 126 Hours Lecture
This course considers the biochemical reactions and pathways of normal human health. Several clinical correlation conferences illustrate the normal pathways of metabolism by presenting data on specific diseases. Nutrition will be discussed from a biochemical viewpoint. The biochemistry of the gastrointestinal, pulmonary, renal, musculoskeletal, endocrine and other systems, will be studied.

Family Medicine

FMN 5112 / Clinical Practicum I 36 Hours Lecture
The purpose of this course is to introduce the student to history taking techniques. The student is exposed to standard history taking and recognition of non-verbal cues. Surrogate video taping sessions and critiques will be utilized.

FMN 5222 / Clinical Practicum II 36 Hours Lecture
The student will be introduced to the skills of performing a complete physical examination. Small group format will be used.

FMN 6312 / Clinical Practicum III 36 Hours Laboratory
Students will perform complete patient evaluation, with review of history and physical examination techniques. Use of differential diagnoses will be taught.
FMN 6422 / Clinical Practicum IV 36 Hours Laboratory
Students will apply learned history and physical techniques in preparation for clinical rotations. Training time will be assigned at a College teaching hospital. Patient evaluation will be stressed.

FMN 6621 / Clinical Procedures 18 Hours Lecture
Students will be prepared for common procedures encountered in clinical rotations. The goal is to ensure familiarity with these procedures.

FMN 6112 / Clinical Correlation I 36 Hours Laboratory
The student will experience the application of problem solving skills to case studies and medical simulation, using knowledge gained from didactic and clinical courses.

FMN 6222 / Clinical Correlation II 36 Hours Laboratory
A continuation of Clinical Correlation I, using problem-solving skills through small group discussions of clinical cases, directed by family physicians.

FMN 5111 / Biostatistics 18 Hours Lecture
The student will be introduced to basic concepts of biostatistics. Basic terminology as well as evaluation of medical research and literature, will be stressed.

FMN 5221 / Medical Epidemiology 18 Hours Lecture
Introduction to basic concepts of epidemiology as it pertains to public health and disease processes.

FMN 6511 / Clinical Nutrition 18 Hours Lecture
The student will be instructed in normal and abnormal nutrition. Included are the assessment of nutritional status and a discussion of preventative medical approaches to nutrition and disease.

FMN 6722 / Pre-Clerkship Seminar 36 Hours Lecture
A series of presentations at the end of the sophomore year designed to reinforce knowledge and skills useful for clinical rotations. Seminar topics include Risk Management, How to present clinical cases, Medical record documentation, Laboratory interpretation, Understanding HIV infection, Writing progress notes, OSHA regulations, Physician-Patient relationships, Simulated cardiac patient ("Harvey"), Standard health maintenance care of an adult and child, Hospital protocols, Literature research, and Ethnocultural sensitivity.

FMN 8824 / Pre-Internship Seminars
A series of presentations at the end of the senior year, prior to graduation, designed to reinforce knowledge and skills useful for the internship experience ahead. Seminar topics include Internship expectations, Utilization review, Risk Management, On-Call Medication, Physician Impairment, Problem-Oriented Case Studies, HIV/AIDS Seminar, Medical licensure, Emergency management, and Advanced Cardiac Life Support.
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. Morganstein; Clinical Associate Professor: H.H. Mones; Assistant Professor: J. Rose; Instructor: S. Ganes; Clinical Instructor: D. James

FMC 6321 / Community Medicine 18 Hours Lecture
An overview of the existing methods of bringing health care to the community. Individualism and old traditions are contrasted with the need for balancing availability of services with equitable costs and quality of care. The socioeconomic impact on public health, quality of care and manpower management will be discussed, as well as the role of government.

FMC 6421 / Medical Jurisprudence 18 Hours Lecture
A seminar and lecture series designed to give the student an appreciation of physician-attorney relationships as well as legal terminology and legal principles. Medical Risk Management will be emphasized.

Division of Rural Health and Research
Chairman and Professor: L. Fry

FMR 6121 / Rural and Ethnocultural Medicine 18 Hours Lecture
The student is introduced to the concepts of rural practice. The role of the rural practitioner is discussed. Problems inherent in the delivery of health care to minority groups are also discussed. A significant portion of the course will deal with communications, cultural factors, compliance and the doctor-patient relationship.

Division of Geriatrics
Chairman and Associate Professor: F. Komara; Clinical Associate Professor: W. Boyd; Clinical Instructor: R. Birnbaum

FMG 6121 / Geriatrics 18 Hours Lecture
This course will review the normal geriatric patient and pertinent pathological processes. Psychosocial aspects and therapeutics will be stressed, along with chronic care management.

Division of Emergency Medicine
Chairman and Associate Professor: B. Feingold; Clinical Associate Professors: I. Demorest, J.C. Eutzler, E.L. Gifin, M. Latterman; Clinical Assistant Professors: J. Gordon, A. Memon, E. Rancatore, S. Saef, D. Schillinger, K. Schrank, S. Tenenbaum, J. Yates
FME 6321 / Emergency Medicine
18 Hours Lecture
This course stresses the prompt recognition and emergency management of both common and serious medical problems.

FME 5110 / Basic Life Support
This course is approved by the American Heart Association and leads to certification upon successful completion.

FME 6220 / Advanced Cardiac Life Support
The student will take an advanced cardiac life support course approved by the American Heart Association prior to the beginning clinical rotations. Current certification in Basic Life Support is a prerequisite for this course.

Division of Physical Medicine and Rehabilitation
Chairman and Assistant Professor: R. Tolchin; Assistant Professor: M. Gilbert

FMN 6111 / Rehabilitative Medicine
18 Hours Lecture
This course will present a basic overview of Physical Medicine and Rehabilitation including the use of modalities, and the interaction of somatic and psychological factors. Sports medicine and neuromuscular disease rehabilitation will be discussed.

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

FMO 5113 / OMMI
18 Hours Lecture
36 Hours Laboratory
An introduction to general principles and techniques of diagnosis of the axial skeleton and paraspinal regions. The student is exposed to basic terminology and examination skills through lecture, demonstration and hands-on performance.

FMO 5223 / OMMII
18 Hours Lecture
36 Hours Laboratory
This course is devoted to studies of principles and techniques on a regional basis. Attention is paid to 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 6313 / OMMIII
18 Hours Lecture
36 Hours Laboratory
This course continues the studies of principles and techniques of diagnosis and treatment on a regional basis. This course also enhances the development of the palpatory diagnosis and treatment skills in the paraspinal as well as the spinal areas of dysfunction.
This course teaches the students to integrate musculoskeletal diagnosis and treatment into an Osteopathic approach to systemic diseases. This course also reviews basic concepts in preparation for clinical rotations.

**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. Ravilsky, N.B. Tytler Jr., R. Walsh

**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 Pulmonary Medicine**

Chairman and Associate Professor: C.F. Corrales; Associate Professors: E.B. Bolton, Jr.; Clinical Assistant Professors: L. Barroso, J. Giamino, D.J. O'Leary

**Division of Nephrology**

Chairman and Associate Professor: C. Glasser; Clinical Associate Professor: C. Abraira; Assistant Professor: J. Waterman; Clinical Assistant Professor: G. Waterman

**Division of Neurology**

Chairman: Vacancy; Clinical Associate Professor: B.J. Cutler; Clinical Assistant Professor: H. Todd, P. Winner; Clinical Instructor: V. Salanga

**Division of Dermatology**

Chairman and Associate Professor: H.A. Schwartzberg; Clinical Professor: I.
Division of Radiology
Chairman and Professor: D. Finkelstein; Professor: J.G. Stella; Clinical Professor: F. Manlio; Clinical Associate Professor: 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 6116 / Internal Medicine I
This course includes studies in Cardiology, Hematology-Oncology, Rheumatology and Electrocardiography. Infectious diseases are discussed in relation to the various systems.

IMA 6226 / Internal Medicine II
This course consists of studies in Pulmonary medicine, Gastroenterology, Endocrinology, Dermatology, Neurology, and Radiology. Infectious diseases are discussed in relation to the different systems.

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

MIC 5127 / Medical Microbiology and Immunology
This course includes Bacteriology, Virology, Parasitology, Mycology, and Immunology. The organisms are also discussed in relation to disease states.

Obstetrics and Gynecology

OBG 6112 / Gynecology
This course begins with a review of the functional anatomy, embryology and physiology of the human reproductive organs. The student is taught to evaluate the female patient, after which non-surgical and surgical diseases are reviewed from the standpoint of diagnosis and management. The student is also taught sexuality, conception control and pre and post-operative surgical management.
OBG 6222 / Obstetrics  36 Hours Lecture
A systematic study of pregnancy, labor, and puerperium. Beginning with a review of anatomy, embryology and the physiology of human reproduction. Students are taught the management of the normal pregnancy, labor and delivery followed by studies in the recognition and management of the normal pregnancy.

Pathology
Chairman and Professor: M.A. Khin; Professor Emeritus: D.C. Bergman; Associate Professor: K. Khin; Clinical Associate Professors: L. Lang, III; Clinical Assistant Professors: R. Ziegler, J. Mones; Clinical Instructor: C. Carson

PTH 6114 / Pathology I  72 Hours Lecture
The course will begin with principles of Pathology. Gross specimens will be studied. The course will correlate the pathological processes of disease with pathophysiology involved in the organs and tissues of the body.

PTH 6223 / Pathology II  54 Hours Lecture
A continuation of Pathology I. The course will correlate the pathological processes of disease with the pathophysiology involved in the organs and tissues of the body. Lectures in Pathology will be clinically correlated.

PTH 6311 / Laboratory Medicine I  18 Hours Lecture
This course introduces the students to laboratory procedures including studies of contents of body fluids (e.g. urine, blood, cerebrospinal fluid) and their interpretations in the disease process.

PTH 6421 / Laboratory Medicine II  18 Hours Lecture
Laboratory techniques of clinical significance are taught with a hands-on approach, including interpretations of specimens.

Pediatrics

PED 6112 / Pediatrics I  36 Hours Lecture
The course begins with an introduction to Neonatology, and discusses neonatal resuscitation, nursery care of the newborn and common neonatal disorders. Diseases and disorders of childhood involving the various bodily systems are subsequently discussed through case studies and audiovisual illustrations.
PED 6222 / Pediatrics II  
36 Hours Lecture  
A continuation of Pediatrics I, discussing diseases and disorders of childhood. Health care of the Adolescent is also discussed. The course is completed with emphasis on the longitudinal health care plan of a well child (including data gathering, growth and development assessment, anticipatory guidance, immunizations, psychosocial problems and child advocacy).

Pharmacology  
Chairman and Assistant Professor: L. Crespo; Assistant Professor: M.D. Hill; Adjunct Assistant Professor: J. Barakeh

PCO 6113 / Pharmacology I  
54 Hours Lecture  
This course begins with a thorough grounding in the principles of drug action. The classes of drugs used in clinical practice will be examined in detail, with particular emphasis on structure and activity, mode of action, side effects, toxicity and drug interactions. The pharmacological intervention of pathophysiological processes will be stressed.

PCO 6222 / Pharmacology II  
36 Hours Lecture  
A continuation of Pharmacology I. The classes of drugs used in clinical practice will be discussed along with pharmacologic intervention of pathophysiologic processes. Lectures in Pharmacology will be clinically correlated.

Physiology  
Chairman and Associate Professor: S. Taraskevich; Associate Professor: A. Posner

PHY 5127 / Medical Physiology  
126 Hours Lecture  
A comprehensive study of human physiology presented from an organ systems approach. The course will include the study of general (cell, membrane, muscle) and cardiovascular physiology. There is also emphasis on renal, gastrointestinal, respiratory, endocrine, reproductive and neurological physiology.

Surgery  
Division of General Surgery
Chairman and Associate Professor: E. Wiener; Associate Professor: B. Silverman
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 Ophthalmology
Chairman and Associate Professor: W. Bizer; Professor Emeritus: E.D. Hersh; Clinical Assistant Professors: R.L. Bentz, C. Berger, R.J. Gulinier, E.R. Leonard, A.L. Rubin, P. Shettle, R. Susi, T. Ward
Division of Orthopedic Surgery
Chairman and Professor: M. Rech; Professor: M.J. Morris, B.B. Swartz; Associate Professor: D.L. Gula; Clinical Assistant Professor: 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 Professor: R. Contrucci, H. Sussman; Clinical Assistant Professor: M. Bibliowicz, J. Dickens D. Harrington, R. Maliner
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

SGN 6113 / Surgery I
This course consists of General Surgery and Orthopedic Surgery. It will cover the basic concepts common to all surgery. Subjects will include homeostasis, shock, fluid and electrolyte balance, and other surgical principles. Fracture care will be taught.

SGN 6223 / Surgery II
This course will present students with fundamental knowledge in Ophthalmology, Otorhinolaryngology, and Anesthesiology.
Affiliated Hospitals

Broward General Medical Center
Ft. Lauderdale
Glenn R. Singer, M.D.
Associate Director of Medical Education
Ncum}
Chief Executive Officer: Richard Stull II

University Community Hospital of CarrolloW
Tampa
DME: Oscar Venzor, D.O., D.M.E.
Administrator: Mary Reese

Charter Hospital Of Miami
Miami
Administrator: Amanda Hopkins

Coral Springs Medical Center
Coral Springs
Gilbert N. Silbiger, M.D., P.A.
Associate Director of Medical Education

Florida Hospital East Orlando
Orlando
DME: Harry Morris, D.O.
President: Richard Reiner

Glades General Hospital
Belle Glade
DME: Robert Rappel, D.O., J.D.
CEO: Neil Whipler

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

Jackson Memorial Hospital
Miami
Director of Emergency Care Center:
Kathleen Schrank; M.D.
CEO: Ira C. Clark

Pinellas Community Hospital
Pinellas Park
DME: Louis Lang III, D.O.
CEO: Robert Davis

Miami Children's Hospital
Miami
DME: Charles Wharton, M.D.
Chief of Staff: Ramon Rodriguez-Torres, M.D.

Mount Sinai Medical Center
Miami Beach
DME: Frederico Justiniani, M.D.
President/CEO: Fred Hirt

North Broward Medical Center
Pompano Beach
H. Murray Todd, M.D.
Associate Director of Medical Education

Palmetto General Hospital
Hialeah
DME: Marc Morganstine, D.O.
CEO: Edward Tudanger, M.B.A.

Parkway Regional Medical Center
North Miami Beach
Director of E.R.: David Schillinger, M.D.
CEO: Walter Gassner, M.D.

Southernwinds Psychiatric Hospital
Hialeah
V.P. for Administration: Brenda Andersen

Sun Coast Hospital
Largo
DME: James Eutzler, D.O.
CEO: Jeffrey A. Collins

Universal Medical Center
Plantation
DME: Glenn Moran, D.O.

Wellington Regional Medical Center
Wellington
DME: Robert Rappel, D.O., J.D.
CEO: Arnold Scheiffer

Westchester General Hospital
Miami
DME: Harris Mones, D.O.
CEO: Sylvia Urlich

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Special Academic Programs

**Seven Year Family Medicine Program (SYFAM)**

Recognizing the need for family medicine practitioners, the 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 will eliminate 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 will allow the 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.

For the first year, forty slots in the entering class will be set aside for this specific 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.

The graduate medical programs will utilize Nova Southeastern University's West Florida campus at Sun Coast Hospital in Largo, Florida, the Palmetto General Hospital program, Nova Southeastern University's Family Medicine Residency Program and such other programs as are available at that time.

In addition, the University will appoint at least two members of each class as full-time faculty members of the College of Osteopathic Medicine upon completion of the program.

**SYFAM Affiliations**

**Internship Affiliations**

<table>
<thead>
<tr>
<th>Hospital Name</th>
<th>Location</th>
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<tbody>
<tr>
<td>Palmetto General Hospital</td>
<td>Hialeah, Florida</td>
</tr>
<tr>
<td>Sun Coast Hospital</td>
<td>Largo, Florida</td>
</tr>
<tr>
<td>Universal Medical Center</td>
<td>Plantation, Florida</td>
</tr>
<tr>
<td>Wellington Regional Medical Center</td>
<td>West Palm Beach, Florida</td>
</tr>
<tr>
<td>Westchester General Hospital</td>
<td>Miami, Florida</td>
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</tbody>
</table>
Residency Affiliations

Broward Family Health Center
Nova Southeastern University
Fort Lauderdale, Florida

Broward General Medical Center
Fort Lauderdale, Florida

Cleveland Clinic Florida
Coral Springs, Florida

Family Health Center
Nova Southeastern University
Opa-Locka, Florida

Jackson Memorial Hospital
Miami, Florida

Mt. Sinai Medical Center
Miami Beach, Florida

North Broward Hosp. District
Fort Lauderdale, Florida

Universal Medical Center
Plantation, Florida

Wellington Regional Medical Center
West Palm Beach, Florida

Westchester General Hospital
Miami, Florida

Area Health Education Center (AHEC)

The Nova Southeastern University College of Osteopathic Medicine was designated as an Area Health Education Center (AHEC) by the Federal government and was awarded a grant under that program in 1985. This was significant because the University was the first medical school in Florida to be selected for an AHEC program. Goals of the program are to improve the distribution of medical manpower and related health services and to provide the people of underserved communities with access to better care.

AHEC accomplishes this mission by developing networks and partnerships among academic institutions which train health professionals and community groups in remote and underserved areas. Several institutions participate in our AHEC program. These are Florida International University (nursing, social work, allied health), Florida Atlantic University (nursing, social work), Palm Beach Junior College (nursing, dental hygiene), and Broward Community College (continuing education/health professions).

The first AHEC center, the Everglades AHEC, reaches underserved areas within a ten-county region covering about 10,000 square miles from the inner cities 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 a Central Florida AHEC in fall, 1988, nine more counties and an additional 10,000 square miles.

AHEC programs are broad in scope. Recruitment programs include a student-based Practice Opportunities Program (POP), begun four years ago, and a Summer Health Careers Camp for high school students from underserved areas. Training programs include multidisciplinary opportunities for both undergraduate and graduate students in primary care settings throughout the region. Retention programs focus on providing practitioners in underserved areas with enhanced opportunities to stay up to date in their field through region-wide library networks and AHEC continuing education programming for physicians and other health care professionals.
AHEC also has a close relationship with Florida’s three other medical schools in a state-wide AHEC program, now supported additionally by a Florida legislative grant.

**Rural Medicine Program**

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. A required rotation in rural medicine gives all Nova Southeastern University College of Osteopathic Medicine students a basic insight into the special health care needs of the people living in underserved communities. Several affiliated community health care centers throughout southeast and central Florida participate. Students in their fourth years of training, as well as general practice residents, participate for a period of three months. They work in rural clinics and live in rural communities. This experience introduces students to rural practice and gives them the experience of living in these areas.

During their rotations, students work under the direct supervision of licensed physicians, including a faculty member who coordinates training. The majority of these centers treat migrant farm workers and indigent patients. These clinics include Collier Health Services, Immokalee; Florida Community Health Centers, Clewiston, Okeechobee, Indiantown, and Fort Pierce; the Palm Beach County Health Department health care unit, Belle Glade; and the West Orange Farmworker Health Association clinics, Apopka.

The rural medicine training program provides a unique, enriching experience that cannot be taught in the classroom or by textbook. Nova Southeastern University College of Osteopathic Medicine’s administrative officers believe that exposure to rural practice will better prepare and motivate young physicians to practice in rural, underserved areas.

**Combined Degree Programs**

Nova Southeastern University Health Professions Division has established a joint degree program with the Nova Southeastern University Farquhar Center for Undergraduate Studies. This allows candidates to receive their doctoral degrees in either osteopathic medicine, pharmacy, or optometry in a seven-year period.

Also, Florida International University and the Nova Southeastern University College of Osteopathic Medicine established a teaching affiliation and combined degree program in late 1984. The FIU-Nova Southeastern University College of Osteopathic Medicine affiliation allows candidates to complete training for B.S. and
D.O. degrees in a seven-year period, saving students one year of time and tuition.

Under these programs, highly qualified and carefully selected pre-medical students at the Farquhar Center or FIU will be guaranteed acceptance at Nova Southeastern University College of Osteopathic Medicine after completing three years of prescribed training. Candidates must maintain a 3.25 grade point average and achieve acceptable scores on the Medical College Admission Test (MCAT) during their third year at FIU.

Upon completion of the first year of medical education at Nova Southeastern University College of Osteopathic Medicine, students in the program will be awarded a B.S. degree from the Farquhar Center or FIU. After four years of training at Nova Southeastern University College of Osteopathic Medicine, students will receive the D.O. (Doctor of Osteopathy) degree. Only Florida residents can participate in the combined degree program.

**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. The responsibilities of Student Council include collecting and expressing student opinion, dispensing funds for student activities, acting as a liaison for the student body, promoting osteopathic medicine, supporting club and class activities, and working to improve the quality of life for all students at Nova Southeastern University College of Osteopathic Medicine.

The Student Council President is Nova Southeastern University College of Osteopathic Medicine’s representative on the Council of Student Council Presidents (CSCP). CSCP is an organization composed of student government presidents from each of the osteopathic medical schools.

**National Osteopathic Women Physicians Association (NOWPA)**

NOWPA is a professional organization composed of female students of Nova Southeastern University College of Osteopathic Medicine. The purpose and objective of the organization is to further the study of Osteopathic Medicine as a philosophy, science and art.

**International Osteopathic Student Organization**

The club assists students in adapting to a new environment; educates them on cultural and linguistic differences and promotes osteopathic medicine to the various cultures in our community and in our world at large.

**Phi Sigma Gamma**

Phi Sigma Gamma is a national professional fraternity for men. The fraternity was originally founded in 1910 in Chicago and presently has chapters in most osteopathic medical colleges. The IOTA Chapter was chartered in March of 1986.
Sports Medicine Club
The object of this organization is to promote and advance the discipline of sports medicine and to instruct students who are interested in sports medicine and its structural relationships to health and disease.

Student Associates Auxiliary
The SAA was specifically organized for the spouses of the students of Nova Southeastern University College of Osteopathic Medicine and is chartered by the Auxiliary to the American Osteopathic Association (AAOA). The primary objective of the SAA is to further the goals of the College and the osteopathic profession and to promote fellowship, good-will and unity within the school.

Student Osteopathic Medical Association
The Student Osteopathic Medical Association (SOMA) is one of the largest student groups on campus, representing over 90% of SECOM's student body. Membership in SOMA brings many benefits including free subscriptions to Student Doctor and Medical Student, discount prices on diagnostic equipment, the Preceptorship Program, SOMA scholarships, life insurance and more.

The Undergraduate American Academy of Osteopathy
The Undergraduate American Academy of Osteopathy (UAAO) is a professional organization dedicated to serving osteopathic medical students. It is Nova Southeastern University College of Osteopathic Medicine's extension of the American Academy of Osteopathy, a national association established in 1937. The Academy maintains the goal of developing the science and art of total health care, with an emphasis on palpatory diagnosis and the use of osteopathic manipulative treatment.

The UAAO involves students in many activities and offers numerous benefits. Members receive a 30% discount on certain textbooks, and may buy treatment tables at reduced rates. They also sponsor well-known speakers from all over the country.

Undergraduate Chapter of American College of Osteopathic Family Physicians
The Undergraduate Chapter of the ACOFP has been organized for all students in the College. The organization works towards the preservation of the concept of general practice and the continued existence of the role of the general practitioner in the total picture of osteopathic medical services in the community. The chapter recognizes the fact that the general practitioner is the backbone of modern medical practice.

Undergraduate Chapter, American College of Osteopathic Pediatricians
This organization is open to all students interested in osteopathic pediatrics. Seminars and educational programs are presented.

Hispanic Osteopathic Medical Association
The principal objectives of the organization are the following: inform the Spanish speaking community about the Osteopathic Medical profession; promote the practice
of Osteopathic Medicine within the Hispanic community; increase contact between the Osteopathic Medical students and the Spanish speaking community; inform college and university students in South Florida about the opportunity of being a Doctor of Osteopathy (DO) and what the requirements are for admission to the College of Osteopathic Medicine. Membership is open to all students.

Undergraduate Chapter, Student National Medical Association

The Student National Medical Association advocates for improved, culturally sensitive health care services and education for neglected or underserved populations. Although consisting primarily of African Americans, SNMA's array of members reflects the organization's appeal to students and professionals everywhere; the membership also includes Africans, West Indians, Latin Americans, Asians, Middle Easterners, and Caucasians, all of whom bring a global perspective to the medical education and health care issues the organization addresses.

American Medical Student Association

Open to all students interested in furthering the improvement of health care and its delivery, medical education, and the involvement of its members in the social, moral, and ethical obligations of the profession. A national organization for both osteopathic and allopathic students and graduates.
COLLEGE OF PHARMACY
Pharmacists are knowledgeable about drugs and therapeutic goals, their uses, formulation, contraindications, adverse effects, incompatibilities and potential for drug interactions. As drugs become more potent and specific and information more plentiful, pharmacists have assumed a primary responsibility for monitoring drug therapy. Because pharmacy’s professional role has enlarged, pharmacists have become integral to the health care delivery system. As a consequence, pharmacy education is constantly evolving.

Pharmacists are active in primary patient care such as hypertension screening, over-the-counter products, patient profiles and drug regimens. They understand the health care needs of specialized patient groups, such as children and the elderly. Pharmacists are not just drug-oriented, but people-oriented. They consider both the medication and the patient with emphasis on making certain 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: the community (which includes self-employment), the hospital, the extended care facility or the public health clinic. In addition, pharmacists are employed by the pharmaceutical industry in research and development, in manufacturing or as medical service representatives. They also work in educational institutions, government agencies, health maintenance organizations and home-based health care programs.

Like other health professions, pharmacy is regulated by law. In the United States, state laws limit practice to those who have been duly licensed by the state. Qualifications for licensure are: graduation from an accredited college of pharmacy, completion of a required internship program, and a passing grade on an examination conducted by the state board of pharmacy.

**Council of Overseers**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
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<tbody>
<tr>
<td>Jay M. Tischenkel, R.Ph.</td>
<td>Chairman</td>
</tr>
<tr>
<td>Beech Mountain, North Carolina</td>
<td>Retired President</td>
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<tr>
<td>Continental Drug Company</td>
<td></td>
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<tr>
<td>Mrs. William S. Apple</td>
<td>Falls Church, Virginia</td>
</tr>
<tr>
<td>Paul A. Eger, R.Ph.</td>
<td>Miami, Florida</td>
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<tr>
<td>Medical Services Consortium</td>
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<tr>
<td>Rosebud L. Foster, Ph.D.</td>
<td>North Miami, Florida</td>
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<tr>
<td>AHEC Project Manager</td>
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<tr>
<td>Florida International University</td>
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<tr>
<td>Constantine J. Lopilato, R.Ph.</td>
<td>Hollywood, Florida</td>
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<tr>
<td>President, Town Drug</td>
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<tr>
<td>David J. Osterberger, Pharm. D.</td>
<td>Miami, Florida</td>
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<td>Miami, Florida</td>
<td>Director, Pharmacy Services</td>
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<td>Deering Hospital</td>
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<tr>
<td>Philip Sacks, R.Ph.</td>
<td>Fort Lauderdale, Florida</td>
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<tr>
<td>Past President</td>
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<tr>
<td>American Pharmaceutical Association</td>
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<tr>
<td>John Stadnik, R.Ph.</td>
<td>Miami Springs, Florida</td>
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<tr>
<td>Miami Springs Pharmacy</td>
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<tr>
<td>Joel M. Wilentz, M.D.</td>
<td>Hallandale, Florida</td>
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<tr>
<td>Pharmacist and Dermatologist</td>
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<tr>
<td>David L. Wingate, M.B.A.</td>
<td>Deerfield, Illinois</td>
</tr>
<tr>
<td>Corporate Manager Recruitment</td>
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<tr>
<td>Walgreen Company</td>
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The Bachelor of Science Degree

Accreditation
The American Council of Pharmaceutical Education has accredited the Bachelor of Science in Pharmacy program and 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.

Facilities
The College of Pharmacy occupies a three-story building which houses an expanding Drug Information Center, conference rooms, and faculty offices. Clinical teaching sites in the Miami-Fort Lauderdale metropolitan area provide an unsurpassed setting for the clinical education. Support from community pharmacies allows students to learn contemporary pharmacy within a wide range of practice sites.

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

Pre-Pharmacy Studies
1. Prior to matriculation, applicants must complete a minimum of 60 semester hours of course work at an accredited college or university including the following required courses:
   - Biology with Laboratory—8 semester hours
   - Calculus—3 semester hours
   - General Chemistry with Laboratory—8 semester hours
   - Organic Chemistry with Laboratory—8 semester hours
   - Statistics—3 semester hours
   - Economics—6 semester hours
   - English Composition—3 semester hours
   - English Literature—3 semester hours
   - Speech or Communications—3 semester hours
   - Humanities—3 semester hours
   - Social or Behavioral Sciences—3 semester hours
   - Social Behavior and/or Humanities—9 semester hours

2. Students must have a cumulative grade point average of 70% or higher on a 100-point scale or a 2.5 on a scale of 4.0 in all coursework. To assure a well-rounded background for professional studies and adequate preparation in mathematics and sciences, the College requires a grade of C or better in each required pre-pharmacy course. A 2.0 grade point average must be attained in all biology, chemistry and
mathematics courses. It is recommended that courses other than the required courses be in social and behavioral sciences or humanities.

Application Procedure

Full-time Professional Program

Inquiries for admission should be addressed to the Admissions Office, College of Pharmacy, 1750 N.E. 167th Street, North Miami Beach, Florida 33162-3017. Candidates for admission must submit:

1. A completed application form along with a $50, nonrefundable 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. A letter of reference from a registered pharmacist is recommended.
4. Official PCAT scores
5. Official college transcripts from all undergraduate and graduate institutions attended.

THE COLLEGE REQUESTS THAT ALL APPLICATION DOCUMENTS BE RECEIVED BY APRIL 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 College has established the following tuition and fees:

1. Tuition and fees for Florida residents—$9,380 for the 1994-95 academic year and $12,560 for out-of-state residents.
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. This fee is due March 15.
4. Pre-registration Fee: $500. Due May 15, under the same terms as the Acceptance Fee.
5. Student Activities Fee—$100, payable at the time of first semester registration. The first semester's tuition and fees, less the $1,100 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.

Post Graduate Doctor of Pharmacy Program
The College has established the following Postgraduate Pharm.D. tuition and fees:
1. Tuition: $280 per credit hour.
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 March 15, under the same terms as the Acceptance Fee.
   The first session's tuition and fees, less $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 obligation has been discharged.

Financial Aid
All sources of financial aid, scholarships and loans listed in this section are summarized briefly due to constantly changing requirements, fund availability and interest rates. The student financial aid office monitors all revisions in these programs and maintains a current status file on each. For further information on any of the following programs, please contact the Financial Aid Director.

Private Programs
A. Doris D. Forman Fund
B. Eckerd Drug Scholarship/Loan Program
C. Nova Southeastern University Student Loan Program
D. Florida Society of Hospital Pharmacists Scholarship Award
E. Burroughs Wellcome Scholarship Program
F. National Association of Retail Druggists (NARD) Loan Program
G. Broward County Pharmacy Association Scholarship
H. Jay Tischenkel Scholarship
I. Walgreen's Drug Scholarship/Loan Program
J. Memorial Hospital Scholarship/Loan Program
K. National Association of Chain Drug Stores Scholarship
L. Paul & Ellen Magalian Scholarship Award
Federal Programs

<table>
<thead>
<tr>
<th>Programs</th>
<th>Maximum Award Amount For Pharmacy 1, 2, 3 Students</th>
<th>Maximum Award Amount For Pharm D. 3, Pharm D. 4 Students</th>
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<tbody>
<tr>
<td>Federal Pell Grant</td>
<td>$2,300</td>
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<tr>
<td>Federal Supplement Grant</td>
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</tr>
<tr>
<td>Federal Stafford Loans (subsidized)</td>
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<tr>
<td>Federal Stafford Loans (unsubsidized)</td>
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<td>$10,000</td>
</tr>
<tr>
<td>Health Education Assistance Loan</td>
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<td>$12,500</td>
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<tr>
<td>(Eligibility begins during second year of pharmacy school)</td>
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<tr>
<td>Federal Parent Loan for Undergraduate Students (PLLS)</td>
<td>Cost of Attendance minus other aid N/A</td>
<td>N/A</td>
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<tr>
<td>Federal Perkins Loan</td>
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<td>Variable</td>
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Graduation Requirements

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

a.) Be of good moral character.
b.) Have satisfactorily passed all prescribed examinations.
c.) 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.
d.) Have satisfactorily discharged all financial and library obligations.
e.) Transfer students must complete a minimum of 15 credit hours of didactic course work in addition to all experiential requirements.
f.) Attend in person the rehearsal and commencement program at which the degree is awarded.

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 compliances with regulations or for such other reasons as are deemed appropriate.
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 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.

Second Year

The second year of the professional curriculum is applied. 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 a prescription practice course provide background for legally and ethically dispensing prescriptions, counseling patients and studying over-the-counter drugs. Pharmacy Administration gives understanding of the social and economic aspects of health care.

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 biopharmaceutic and laboratory data are included. An advanced course in pharmacotherapeutics is also 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 clerkship. The first semester includes four, 160-hour rotations in preassigned practice areas. During the second semester, students select 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 speciality areas.
# 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
  **Credits..................................................................... 18**

## Second Year

### First Semester
- Therapeutics I .......................................................... 4
- Pharmacodynamics III ............................................... 6
- Pharmaceutics ............................................................ 3
- General Education I .................................................... 3
- Pharmacy Law ............................................................. 3
  **Credits..................................................................... 19**

### Second Semester
- Therapeutics II .......................................................... 4
- Pharmacodynamics IV .................................................. 4
- Physical Assessment .................................................. 2
- Prescription Practice ................................................ 3
- General Education II .................................................. 3
- Pharmaceutical Marketing ........................................... 2
  **Credits..................................................................... 18**

## Third Year

### First Semester
- Experimental Design & Statistics .............................. 4
- Drug Literature Evaluation ......................................... 2
- Clinical Biopharmaceutics and Interpretation
  - of Laboratory Data ..................................................... 4
- Advanced Pharmacotherapeutics ................................ 6
  **Credits..................................................................... 16**

### Second Semester
- Externship ................................................................. 7
  **Credits..................................................................... 14**

## Fourth Year

### First Semester
- Clerkship II (I.M.) ....................................................... 3.5
- Clerkship II (AMB) ....................................................... 3.5
- Clerkship II (GER) ....................................................... 3.5
- Clerkship II (D.I.) ....................................................... 3.5
  **Credits..................................................................... 14**

### Second Semester
- Clerkship III–A .......................................................... 3.5
- Clerkship III–B .......................................................... 3.5
- Clerkship III–C .......................................................... 3.5
- Clerkship III–D .......................................................... 3.5
  **Credits..................................................................... 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 successfully complete coursework 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

Nova Southeastern University College of Pharmacy offers a full-service, campus-based program for B.S. pharmacists seeking a Pharm. D. degree. This approach has distinct advantages over many external degree programs. Courses are taught in person by highly qualified faculty. Students have access to the Health Professions Division library, computers and other learning resources.

Uncompromising in quality, the program meets the needs of working pharmacists. Didactic courses are in the evening. Students vary course loads according to work schedules.

Nova Southeastern University College of Pharmacy clinical clerkship requirements are flexible whenever possible. Individuals with significant clinical work experiences may apply for credit toward some of the required clinical clerkship rotations.

All students entering the program should be prepared to complete clinical rotations which have direct patient contact on a full-time basis. The one-month rotations follow completion of the didactic coursework and do not need to be taken in succession. However, all courses must be completed within seven years, and all didactic courses within five years of the initiation of coursework. At least fifteen semester hours of didactic coursework must be completed at Nova Southeastern University College of Pharmacy, regardless of the number of hours which may be transferred from another Pharm.D. program.

Curriculum

Typically, the first year is spent studying pathophysiology experimental design, and clinical biopharmaceutics. 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.

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

Upon the completion of these twenty-five hours of coursework, 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 credit for some of it. 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 waived. However, a minimum tuition of $2,500 will be charged for clerkships regardless of the amount of life experience credits granted.
CURRICULUM OUTLINE

First Year
First Semester
Advanced Pathophysiology I .......... 3
Experimental Design & Statistics ... 4
Credits .................................... 7

Second Semester
Advanced Pathophysiology II .......... 3
Clinical Biopharmaceutics and
Interpretation of Laboratory Data .... 4
Credits .................................... 7

Second Year
First Semester
Advanced Therapeutics .............. 3
Physical Assessment ............... 2
Credits .................................... 5

Second Semester
Advanced Therapeutics II .......... 4
Drug Literature Evaluation .......... 2
Credits .................................... 6

Third Year
First Semester
Clerkship II (I.M.) ................. 3.5
Clerkship II (AMB) ............... 3.5
Clerkship II (GER) ............... 3.5
Clerkship II (D.I.) ............... 3.5
Credits ..................................... 14

Second Semester
Clerkship III-A ....................... 3.5
Clerkship III-B ....................... 3.5
Clerkship III-C ....................... 3.5
Clerkship III-D ....................... 3.5
Credits ..................................... 14

Externship/Clerkship
Nova Southeastern University College of Pharmacy provides innovative practice experiences to its students during their education. Off-campus pharmacy practices provide hands-on experience in the externship and clerkship. The majority of affiliated practice sites are within the greater Miami/Fort Lauderdale area.

Hospital, 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 the application of didactic knowledge and skills in a non-laboratory, patient-care setting under the supervision of College clinical faculty.

Objectives
As students progress, experiences are organized so that students can demonstrate:

1. A comprehensive knowledge of pathophysiology, therapeutics, pharmacokinetics, toxicology and pharmacy
2. An ability to observe and analyze the signs and symptoms of disease, with emphasis on monitoring drug therapy
3. An ability to develop and expand an adequate data base from such sources as the patient, the medical chart, and other health practitioners
4. An ability to identify, organize, and present an assessment of the patient's problems
5. An ability to design a therapeutic plan based on patient-specific information
6. An ability to solve drug therapy problems with appropriate changes in the drugs used and/or the dosage regimen
7. An ability to monitor and assess therapeutic and adverse effects of drug therapy through the selection of physical and laboratory parameters
8. An ability to manage the patient's drug therapy
9. An ability to effectively communicate verbally and in writing, and to develop a relationship with patients, peers, and health practitioners
10. An ability to comprehend, critically evaluate, and utilize drug literature
11. An understanding of methods used to undertake drug therapy research
12. A sense of personal responsibility to patients for their drug therapy

College of Pharmacy Courses
(Note: c.h. = credit hours. Listed to the right of each entry are clock hours)

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

BCH52001/Biochemistry (4 c.h.) 60 Hours
The structures, functions, and metabolism of lipids, proteins, carbohydrates and nucleic acids will be followed by a detailed consideration of coagulation, muscle, connective tissue, cancer, digestion and absorption, nutrition, and endocrinology. Pharmaceutical application of this material will be included.

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

MIC52001/Microbiology (3 c.h.) 48 Hours
A study of the fundamental principles underlying the nature of infectious microorganisms. Special emphasis is placed on cause, prevention and control of infectious diseases. Topics include immunology, mycology, parasitology, bacteriology and virology. Laboratory exercises cover identification of microorganisms and 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, P. Magalian, D.E. Shaw

PAD 3000/Dean's Hour I (0 c.h.) 16 Hours
Introduction to Pharmacy education and profession.
Prerequisite: P-1 Standing
PAD 3020 / Dean's Hour II (0 c.h.)
Continuation of Dean's Hour I
16 Hours

PAD 3300 / Pharmacy Management I (2 c.h.)
An application of business, economic and management principles in community and institutional pharmacy. Basic management principles are discussed. Students participate in the activities of an established organization and in a simulated community pharmacy.
32 Hours

PAD 3320 / Pharmacy Management II (2 c.h.)
A continuation of Pharmacy Management I with emphasis on managing an organization.
Prerequisite: Pharmacy Management I or Permission
32 Hours

PAD 33001 Pharmacy Management I (2 c.h.)
32 Hours
An application of business, economic and management principles in community and institutional pharmacy. Basic management principles are discussed. Students participate in the activities of an established organization and in a simulated community pharmacy.

PAD 4300 / General Education I (3 c.h.)
Rotating topics in the behavioral and social sciences.
48 Hours

PAD 4360 / Pharmaceutical Marketing (2 c.h.)
An overview of the health care delivery system and specific aspects of pharmaceutical marketing. Emphasis is on dealing with the general public and the pharmaceutical industry.
32 Hours

PAD 4320 / General Education II (3 c.h.)
A continuation of General Education I.
Prerequisites: General Education I or Permission
48 Hours

PAD 4380 / Pharmacy Law (3 c.h.)
Covers federal and state statutes, rules and regulations which affect pharmacy practice and selected aspects of general laws. Special emphasis is placed on interpretation of those laws affecting the practice of community and institutional pharmacy.
48 Hours

PAD 5300/7300 / Experimental Design and Statistics (4 c.h.)
Fundamental principles of statistics and experimental design
60 Hours

Pharmaceutical Sciences
Chairman and Professor: A. Malavé; Assistant Professors: S. Das, R. Finkel, K. Flaharty, D. Gazze, T. Oh, A. Rathinavelu, R. Rosengren

PPS 3160 / Pharmacy Calculations (1 c.h.)
A systematic study of the fundamental mathematical principles employed and problems commonly encountered in compounding and dispensing pharmaceutical preparations.
16 Hours
PPS 3100 / Physical Pharmacy (3 c.h.) 48 Hours
The theory and application of physiochemical principles to pharmaceutical systems.

PPS 3200 / Pharmacodynamics I (3 c.h.) 48 Hours
A study of the physiochemical properties of drugs and principles of drug actions, disposition, metabolism, and analysis. Special attention is given to drugs acting on the peripheral nervous system.

PPS 3140 / Pharmacokinetics (4 c.h.) 64 Hours
A discussion of the mechanisms and rates of absorption and disposition of drugs.
Prerequisites: Physical Pharmacy, Pharmacodynamics I

PPS 3220 / Pharmacodynamics II (4 c.h.) 64 Hours
A continuation of Pharmacodynamics I with emphasis on cardiovascular agents, drugs affecting the endocrine system, autocooids and antithrombotic, anticoagulant and thrombolytic agents.
Prerequisites: Pharmacodynamics I, Biochemistry, Pathophysiology I

PPS 4240 / Pharmacodynamics III (6 c.h.) 96 Hours
A continuation of Pharmacodynamics II with special emphasis on drugs acting on the central nervous system, vitamins and minerals.
Prerequisites: Pharmacodynamics I, Pathophysiology I & II, Biochemistry

PPS 4140 / Pharmaceutics (3 c.h.) 48 Hours
Continuation of Physical Pharmacy with an emphasis on basic and applied concepts from pharmaceutical dosage form design to dosage and regimen.
Prerequisites: Physical Pharmacy, Pharmacy Calculations

PPS 4260 / Pharmacodynamics IV (3 c.h.) 48 Hours
Continuation of Pharmacodynamics III with emphasis on antimicrobial agents, antiparasitic agents, antineoplastic agents, locally active agents, biologicals and diagnostic agents. This course also focuses on toxicology.
Prerequisites: Pharmacodynamics I, Pathophysiology I & II, Biochemistry

PPS 4180 / Prescription Practice (3 c.h.) 80 Hours
The application of scientific, legal and ethical principles to the compounding and dispensing of medicinal agents used in modern medical practice. The analysis, interpretation and evaluation of prescription products in various forms is included.
Prerequisites: Pharmacodynamics I, II, & III, Therapeutics I
Co-requisites: Pharmacodynamics IV, Therapeutics II
PPS 5100/7100 / Clinical Biopharmaceutics and Interpretation of Laboratory Data (4 c.h.)
An introduction to physiochemical and biological parameters influencing drug action. Variables in formulations and physiological considerations are examined in terms of their effect upon the absorption, distribution, metabolism and excretion of medicinal agents. Also included is the interpretation of laboratory data and its effect on prescribing.
**Prerequisites:** PD-3 standing

**Pharmacy Practice**

**Chairman & Associate Professor:** S.A. Swigart; **Associate Professor:** C. Aceves-Blumenthal; **Assistant Professors:** L. Blanchard, G. Clavijo, I. Clavijo, R. Colosimo, S. Cronin, L. Deziel-Evans, T. Ellington, L. Frenzel-Shepherd, K. Graham, C. Kaminski, D. Kummerle, A. Nestor, J. Ray

**PPD 4400 / Therapeutics I (4 c.h.)**
Principles and application of rational pharmacotherapeutics for various disease states, including drug selection and monitoring of drug therapy. Influences of therapy will include, wherever applicable, culturally derived health benefits and age-related issues relating to appropriate drug therapies.
**Prerequisites:** Pathophysiology I & II, Pharmacodynamics II

**PPD 4420 Therapeutics II (4 c.h.)**
Continuation of Therapeutics I with specific emphasis on infectious, neoplastic and rheumatic diseases. Additional topics such as contraceptives, drug abuse, hospice, and pain management are also covered.
**Prerequisites:** Microbiology, Pharmacodynamics III

**PPD 4460 / 7460 Physical Assessment (2 c.h.)**
Focuses on clinical laboratory procedures, data interpretation, patient interviewing, patient progress charting, and medication profiling. Drug-induced problems and patient advisement are included.

**PPD 5600/7600 / Drug Literature Evaluation (2 c.h.)**
A study of prominent sources of drug information, principles of drug literature evaluation and experience in answering drug information questions and analyzing and evaluating drug literature and advertising.
**Prerequisites:** Therapeutics I & II

**PPD 5440 / Advanced Pharmacotherapeutics (6 c.h.)**
An advanced continuation of therapeutics focusing on topics which present difficult therapeutic challenges and newly emerging therapeutic modalities.
**Prerequisites:** PD-3 standing
PPB/PPD 5500 / Externship I (7 c.h.) 320 Hours
An eight-week, off-campus rotation in a supervised community pharmacy. Rotations promote the application of didactic knowledge in non-simulated environments, development of competency in pharmacy practice and further development of communication skills. The full-time (40 hr/wk) rotation emphasizes the distributive and management aspects of pharmacy.
Prerequisites: Successful completion of all didactic course work

PPB/PPD 5520 / Externship II (7 c.h.) 320 Hours
An eight-week off-campus rotation in a supervised hospital pharmacy environment. These rotations promote the application of didactic knowledge in non-simulated environments, development of competencies in pharmacy practice and further development of communication skills. The emphasis of this full-time (40 hr/wk) rotation is on the distributive and management aspects of pharmacy.
Prerequisites: Successful completion of all didactic course work

PPD 7400 / Advanced Therapeutics I (3 c.h.) 48 Hours
Discusses the principles and application of rational pharmacotherapeutics for various disease states. Includes drug selection and monitoring drug therapy. Influences of therapy will include, wherever applicable, culturally derived health benefits and practice, age-related issues and current issues relating to appropriate drug therapies. This course is designed for Postgraduate Pharm.D. students.
Prerequisite/Co-requisite: Advanced Pathophysiology I

PPD 7420 / Advanced Therapeutics II (4 c.h.) 60 Hours
Continuation of Advanced Therapeutics I with emphasis on infectious, neoplastic and rheumatic diseases. Contraceptives, drug abuse, hospice, and pain management are also covered. The course is for the Postgraduate Pharm.D. student.
Prerequisite: Advanced Pathophysiology I
Co-requisite: Advanced Pathophysiology II

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

PPB 5640 / Ambulatory Care (3.5 c.h.) 160 Hours
Features interaction with ambulatory patients. Students participate as members of the health care team to encourage rational drug therapy through extensive patient monitoring. Students obtain medical and drug information directly from patients during interviews.
PPB 5680 / Drug Information (3.5 c.h.) 160 Hours
Students participate in drug information retrieval, formulation of responses, preparation of drug evaluations, in-services, cost-containment studies, drug utilization evaluations and other aspects of drug information for health care practitioners and the public.

PPB 5660 / Geriatric Care (3.5 c.h.) 160 Hours
Emphasizes the differences in providing care for the elderly as opposed to younger individuals. Students participate as members of the health care team to develop effective, least toxic and most economical pharmacological regimens for elderly patients.

PPB 5620 / Internal Medicine (3.5 c.h.) 160 Hours
Presents the most common diseases such as hypertension, congestive heart failure, diabetes, renal failure, etc. Students participate as members of the health care team to develop effective, least toxic and most economical pharmacological regimens for elderly patients.

Clerkship II
Four modules comprise Clerkship II. Each consists of 160 hours, as does Clerkship I, and focuses on the same areas. However, these Pharm.D.-level rotations develop didactic knowledge and competency in pharmacy practice and enhance knowledge of therapeutic management.
Prerequisites: Successful completion of all didactic course work

PPD 6640/8640 / Ambulatory Care (3.5c.h.) 160 Hours
Advanced therapeutic management of Ambulatory Care as in Clerkship I.

PPD 6680/8680 / Drug Information (3.5c.h.) 160 Hours
Advanced therapeutic management of Drug Information as in Clerkship I.

PPD 6660/8660 / Geriatric Care (3.5 c.h.) 160 Hours
Advanced therapeutic management of Geriatric Care as in Clerkship I.

PPD 6620/8620 / Internal Medicine (3.5 c.h.) 160 Hours
Advanced therapeutic management of Internal Medicine as in Clerkship I.

Clerkship IIIA-D (14 c.h.) 640 Hours
Four clerkships comprise the sequence, each of 3.5 credit hours or 160 clock hours. Each 160-hour, off-campus rotation in a supervised pharmacy practice environment emphasizes the nondistributive, clinical aspects of pharmacy practice in a specialty area. Specialty rotations may include: pharmacokinetics, infectious disease, total parenteral nutrition, psycho-pharmacy, pediatrics, rheumatology, surgery, cardiothoracic surgery, critical care, cardiology, neona-
Pharmacy, immunology and clinical research where available.

Prerequisites: Successful completion of all didactic course work

Physiology
Chairman & Associate Professor: S. Taraskevich; Associate Professor: A. Posner

PHY 5210 / Anatomy and Pathophysiology I (5 c.h.) 80 Hours
A study of basic disease processes with emphasis on functional changes and the supporting nomenclature and terminology. A prerequisite for a course in therapeutics. Included are body fluids, cell structure and function, biophysics, cell injury and neoplasia, tissues, skin, skeletal and muscle systems, nervous system, hematology and immunology. Each is addressed from the standpoint of basic physiology as well as disease processes.

PHY 5220 / Anatomy and Pathophysiology II (5 c.h.) 80 Hours
A continuation of Anatomy and Pathophysiology I. Covered are cardiovascular, respiratory, renal, gastrointestinal, metabolic, endocrine, and reproductive systems.
Prerequisites: Anatomy & Pathophysiology I, or Permission

PHY 7210 / Advanced Pathophysiology I (3 c.h.) 48 Hours
For post-graduate Pharm.D. students to gain a physiological understanding of disease processes. Cellular physiology, neurophysiology, hematology, immunology and cardiovascular physiology are presented along with pertinent disorders in each area.
Prerequisites: Admission to Postgraduate Pharm. D. program

PHY 7220 / Advanced Pathophysiology II (3 c.h.) 48 Hours
A continuation of Advanced Pathophysiology I. Areas include respiratory physiology, renal physiology, digestion and metabolism, endocrine and reproductive physiology, and infectious diseases.
Prerequisites: Advanced Pathophysiology I or Permission
Externship/Clerkship Sites
The following institutions are affiliated with NSUCOP for experiential education:

Alden Care
Boca Raton, FL

Allen Drugs
South Miami, FL 33155

Americare
Miami, FL 33162

Aventura Hospital
and Medical Center
Miami, FL 33180

Baptist Hospital
Miami, FL 33176

Bascom Palmer Eye Institute
Miami, FL 33103

Boca Raton Community Hospital
Boca Raton, FL 33432

Brickell Pharmacy
Miami, FL 33131

Broward Family Health Center
Nova Southeastern University
Fort Lauderdale, FL 33312

Broward General Medical Center
Fort Lauderdale, FL 33316

Broward County
Public Health Clinics
Ft. Lauderdale, FL

Budget Pharmacy
Miami, FL 33125

Cape Coral Hospital
Cape Coral, FL 33125

Care Florida
Miami, FL 33166

Cedars Medical Center
Miami, FL 33125

Center Pharmacy
St. Petersburg, FL 33170

The Chemist- Promenade Shops
North Miami Beach, FL 33180

Cleveland Clinic Hospital
Ft. Lauderdale, FL 33308

Coral Gables Hospital
Coral Gables, FL 33134

Coral Springs Medical Center
Coral Springs, FL 33065

Deering Hospital
Miami, FL 33141

Delray Community Hospital
Delray Beach, FL 33484

Florida Medical Center
Fort Lauderdale, FL 33313

Florida Pharmacy Association
Tallahassee, FL 32301

Florida Poison Information Center
Tampa, FL 33601

Greynolds Park Nursing Home
N. Miami Beach, FL 33162

H. Lee Moffitt Cancer Center
Tampa, FL 33612

Harrington's Professional
Arts Pharmacy
Naples, FL 33904

HCA Rouleerson
Okeechobee, FL 34973

Health Infusion
Miami, FL 33126

Hollywood Medical Center
Hollywood, FL 33021

Holy Cross Hospital
Fort Lauderdale, FL 33308

Hospeice of Palm Beach County
West Palm Beach, FL 33407

InstaCare Pharmacy
Davie, FL 33328

InstaCare Pharmacy Dynamics
Miami Lakes, FL 33014

Jackson Memorial Hospital
Miami, FL 33136

Jerry's Drugs
Sunrise, FL 33351

JFK Medical Center
Atlantis, FL 33462

Kendall Regional Medical Center
Miami, FL 33175

Lawnwood Regional Medical Center
Ft. Pierce, FL 33454

Leader Drug Store, Inc.
Hollywood, FL 33020
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<td>Mercy Professional Pharmacy</td>
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<td>Miami Jewish Home and Hospital for the Aged</td>
<td>Miami, FL 33137</td>
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<tr>
<td>Milton Medical &amp; Drug Co.</td>
<td>Miami Beach, FL 33139</td>
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<tr>
<td>Modern Pharmacy</td>
<td>Miami Beach, FL 33140</td>
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<tr>
<td>Mount Sinai Medical Center</td>
<td>Miami Beach, FL 33140</td>
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<td>My Pharmacy</td>
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<td>NMC Infusion Care</td>
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<td>Hialeah, FL 33016</td>
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<td>Pan American Hospital</td>
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<td>Boynton Beach, FL 33435</td>
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<td>Prescription Drug Foundation</td>
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<td>Redi-Dose Town Drug</td>
<td>Hollywood, FL 33020</td>
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<td>Sarasota Memorial Hospital</td>
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<td>South Park Pharmacy</td>
<td>Coral Gables, FL 33143</td>
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<td>St. Mary’s Hospital</td>
<td>West Palm Beach, FL 33416</td>
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<tr>
<td>Sunrise Systems, Inc.</td>
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<td>Surf Drugs and Home Health Care</td>
<td>Miami Beach, FL 33141</td>
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<tr>
<td>Tampa General Hospital</td>
<td>Tampa, FL 33601</td>
</tr>
<tr>
<td>Tower Pharmacy</td>
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<td>United Prescription Center</td>
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<td>University of Miami Health Services</td>
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<td>Veterans Administration Medical Center</td>
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<td>VA Outpatient Clinic</td>
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<td>Vitas Innovative Health Care</td>
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<td>West Boca Medical Center</td>
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<td>West Gables Rehabilitation Hospital</td>
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</tr>
<tr>
<td>Your Druggist, Inc.</td>
<td>Margate, FL 33065</td>
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</tbody>
</table>
Student Organizations

Academy of Students of Pharmacy

The Academy of Students of Pharmacy (ASP) is the student branch of America’s largest and oldest association of pharmacists, the American Pharmaceutical Association (APhA). This organization is the only one that represents all practice settings and, at present, has more than ten thousand student members attending seventy-four schools and colleges of pharmacy across the country.

ASP has equal representation within the organization and has its own standing committees on education programs, publications, awards, and policy. At the local level, student members can participate in service projects that benefit the college and the community as well as social activities that foster school spirit. Any pharmacy student can be a member of ASP and still be eligible for participation in any other campus organization.

Rho Chi

The fundamental objective of Rho Chi is to advance pharmaceutical science through the encouragement and recognition of sound scholarship. High intellectual and scholarly achievement is required for election to membership.

Rho Chi, like its sister honor societies, seeks to increase the awareness of the ethical and social responsibilities of the profession and thereby to enhance the prestige of the profession.

Phi Lambda Sigma

Phi Lambda Sigma, the national pharmacy leadership society, promotes the development of leadership in pharmacy, especially among pharmacy students. By peer recognition, the society encourages participation in pharmacy activities. Membership crosses fraternal and organizational lines so that the society does not compete with other organizations.

Alpha Zeta Omega

Alpha Zeta Omega is a professional pharmaceutical fraternity formed to develop sociability, competition, scholarship, leadership and varied interests in the profession of pharmacy. The Nova Southeastern University Undergraduate Chapter is the Psi Chapter.

Phi Delta Chi

Phi Delta Chi fraternity advances the science of pharmacy and fosters a fraternal spirit among members. Being a member is a lifelong experience which promotes scholastic, professional, and social growth in order to advance pharmacy. Each member serves the public health and strives to be a leader in pharmacy.
Rho Pi Phi International Pharmacy Fraternity

Rho Pi Phi International Pharmacy Fraternity is a co-ed, non-sectarian, professional pharmacy fraternity. The fraternity was founded to be open to all pharmacy students regardless of sex, age, race or religion. Members work in hospitals, communities, government, industry, education, alternative care-settings, and professional associations.

National Association of Retail Druggists - Student Chapter

The National Association of Retail Druggists is a national organization created to provide for the interests of independent pharmacy owners. The student chapter attracts students who are interested in independent pharmacy and instructs them about purchasing, managing and the organization of their own pharmacy through national conventions, publications, and videotapes.

Florida Society of Hospital Pharmacists - Student Chapter

The Florida Society of Hospital Pharmacists Student Chapter participates in shadowing programs which allow students to accompany a hospital pharmacist through his/her daily activities and broaden their exposure to hospital pharmacy. The members are also involved in community service projects such as Poison Prevention Week and National Pharmacy Week.
College of Optometry

Stewart Abel, B.S.E., O.D.,
Dean

Administration
Stewart Abel, B.S.E., O.D., Dean
Howard Purcell, O.D., Deputy Dean
N. Scott Gorman, B.S., O.D., Associate Dean for Clinical Education
Martha McKay, O.D., Associate Dean for Academic Affairs
Harold E. Laubach, B.S., M.S., Ph.D., Associate Dean for Basic Sciences
Marla Frohlinger, B.A., Assistant Dean for Admissions and Student Affairs
Terrence Ingraham, B.S., O.D., Assistant Dean for Optometric Student Affairs
Mary R. Smith, Registrar
Patrick J. Gorman, B.S.H.A., Director of Student Financial Aid
Sara Schoninger, B.S., Director of Medical Communications
Steven Weinstein, B.S., C.P.A., Comptroller
Steven Culbreth, B.S., Bursar
Janice Gottlieb, M.A., M.L.S., Library Director
Daniel E. Jonas, B.S., J.D., Legal Counsel

Optometry
One of man’s most precious gifts is sight. An optometrist, 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 life.

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 optometrists 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 newest and only school in Florida, the Nova Southeastern University College of Optometry will prepare students to treat multiple vision and eye disorders and will provide an understanding of visual information processing, ocular anatomy and physiology.

The College of Optometry shares a campus with the College of Osteopathic Medicine, the College of Pharmacy and the College of Allied Health and was formed in 1988.
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; and

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

Accreditation

The Doctor of Optometry program at the Nova Southeastern University College of Optometry is accredited by the American Optometric Association’s Council on Education. The AOA Council on 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.

Prior to matriculation, applicants must have completed a minimum of 90 hours of specified course work and/or a baccalaureate degree at an accredited college or university with a creditable grade point average. The College will seek students with superior G.P.A’s and quality OAT’s.

The courses shall include the following required subjects*

- Calculus—3 semester hours
- Physics—8 semester hours, including laboratory
- Biology—8 semester hours, including laboratory
- General Chemistry—8 semester hours, including laboratory
- Organic Chemistry—4 semester hours, including laboratory
- Social and Behavioral Sciences—12 semester hours
- Humanities—3 semester hours
- English—6 semester hours

Courses strongly recommended

- Statistics—3 semester hours
- Microbiology—3 semester hours, including laboratory

*Upon review of a student's individual case, the Committee on Admissions may require additional course work and testing as a condition of acceptance.

There is no requirement that a student major in a specific area. Students are encouraged to select their undergraduate curricula according to their own interests with a view toward educating themselves to function as professionals in a complex society.

Application Procedures

The admissions office processes applications on a rolling basis. The application form and a fee of $50.00 should be returned as soon as possible, but no later than May 15 in order to be considered for admission in September.

A complete application is required before an applicant can be considered. A complete application includes the application form, application fee, a complete set of official transcripts, the Optometry Admission Test (OAT) scores, letters of evaluation, and an interview.

The Office of Admissions accepts applicants year round. Students may be invited in at any time for interviews or requested to send additional information.

The College of Optometry awards a baccalaureate degree to those individuals who do not possess a bachelor's degree and who complete 90 credit hours and two years of optometric study at Nova Southeastern University.
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 the same information to the Admissions Committee. A letter of evaluation from an optometrist is highly recommended but not required.

Transcripts

Official transcripts of all work attempted at all colleges and universities must be forwarded, by the institutions attended, to the College of Optometry Admissions Office. 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 admissions office prior to matriculation.

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 admissions office.

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—$9,400 for Florida residents and $13,400 for residents of all other states for the 1994-95 academic year.
2. Acceptance Fee—$100. This fee is required to reserve the accepted applicant’s place in the entering first-year class. This advance 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. A second deposit of $400 is required by March 15, under the same terms as the Acceptance Fee.
4. Pre-registration Fee—$500. This is due May 15, under the same terms as the Acceptance Fee.
5. Student Activities Fee—$100, payable at time of first semester 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 discharged.

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.

It is strongly suggested that each student carry adequate personal, medical and hospital insurance. Students may avail themselves of hospitalization insurance obtainable through the College.

Financial Aid

The primary purpose of the Student Financial Aid Program at the College of Optometry is to help as many qualified students as possible complete optometry school.

All sources of financial aid, scholarships and loans listed in this section are summarized briefly due to the constantly changing requirements, fund availability and interest rates. The financial aid office monitors revisions in these programs and maintains a current status file on each. For further information on any of the following programs, please contact the Director of Financial Aid.

Federal Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Maximum Annual Award</th>
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<tr>
<td>Stafford Student Loan</td>
<td>$8,500</td>
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<tr>
<td>Supplemental Loan</td>
<td>$10,000</td>
</tr>
<tr>
<td>Health Education Assistance Loan</td>
<td>$20,000</td>
</tr>
</tbody>
</table>

The Stafford Student Loan is a fixed interest, federally subsidized loan.
The Supplemental Loan is a variable interest, unsubsidized loan.
The Health Education Assistance Loan is a variable interest, unsubsidized loan.

Chancellor's Scholarship in Optometry

The Chancellor's Scholarship for under-represented minorities in Optometry is a full tuition scholarship. To be eligible, applicants must be U.S. citizens, permanent residents, and residents of Florida and must be in a minority group considered by University administrators to be under-represented in Florida. Other qualifications are academic merit, financial need, practice goals and demonstrated personal abilities.

Private Programs

The Professional Education Program, a private, alternative loan program, lends a student up to $7,500 annually on the student's own signature, or up to $20,000 annually with a credit-worthy co-applicant.

Requirements for Graduation

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

a) Be at least twenty-one years of age
b) Be of good moral character
c) Have satisfactorily passed all prescribed examinations
d) Have satisfactorily completed the program of study required for the degree, including all assignments
e) Have satisfactorily discharged all financial obligations
f) Have taken Parts I and II of the National Board Examination, documented by sending to the Associate Dean for Academic Affairs a copy of test scores
g) Have obtained a Baccalaureate degree by the end of the second year
h) Have been a student in an optometric college for at least four academic years
i) Attend in person the rehearsal and commencement program at which the degree is awarded

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.

Course of Study
The professional curriculum consists of nine different academic units. These are Community Health Optometry, Health Sciences, Optics, Pediatric Optometry, Primary Care Optometry, Rehabilitative Optometry, Vision Sciences, Environmental Optometry and Clinic.

Community Health Optometry
In the first two years the principles of epidemiology and health delivery are studied. Later emphasis is on the organization of optometric services, practice administration and vision health education.

Health Sciences
Students will extend their undergraduate mastery of biology and chemistry to the functions of the visual system and ocular and general pathology.

Optics
The principal function of optics is to provide students with a comprehensive knowledge of image formation and the methodology of image analysis, including modern analysis by way of the modulation transfer function. Students learn to understand the physical basis for light and the elements of radiometric quantity. They obtain a qualitative understanding of lasers, static and dynamic fiber optics systems, and other developments in modern optics.

Pediatric Optometry
This section addresses those aspects of vision care that pertain specifically to children. Major topics include modification of standard clinical procedures and practices to accommodate the very young patient.

Primary Care Optometry
The primary care optometry curriculum begins during the first professional year, when students are given lecture, laboratory and clinical instruction in conducting an
optometric examination. During the second year, students receive instruction in the diagnosis and treatment of anomalies of vision. In the third year students begin to examine patients, including pediatric and geriatric patients and practice contact lens fitting and vision training. During the fourth year students accept broader responsibilities for the diagnosis and treatment of optometric problems and participate in secondary and tertiary optometric care.

Rehabilitative Optometry
This tract is concerned with the body of knowledge needed to examine, diagnose, and treat unique visual problems which require significant rehabilitation beyond conventional refraction.

Vision Sciences
This course concerns non-patient-related aspects of optometry. Students gain understanding of the scientific method and in-depth general knowledge of the physiology of vision and the psychological aspects of vision.

Environmental Optometry
Environmental vision applies the knowledge of physiological optics to the visual environments of individuals or groups to enhance visual and motor performance as well as ocular safety, comfort and general efficiency in seeing.

Clinic
Students gain experience in the College’s many South Florida clinics where they apply their basic knowledge under the direction of clinical faculty.
# CURRICULUM OUTLINE

## First Year, Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Lecture</th>
<th>Laboratory</th>
<th>Credit Hours</th>
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<tr>
<td>ANA 5310 / Histology / Embryology</td>
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<td>ANA 5320 / Gross Anatomy</td>
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<td>BCH 5300 / Biochemistry</td>
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<td>OCS 5110 / Introductory Optometry</td>
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## First Year, Spring Semester

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<td>OVS 5310 / Psychophysics</td>
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<td>OCS 5120 / Patient Communication</td>
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<td><strong>Total Hours</strong></td>
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## Second Year, Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Lecture</th>
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<tbody>
<tr>
<td>PTH 6510 / General Pathology</td>
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<td>OVS 6220 / Ocular Physiology</td>
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<td>OCS 6210 / Ocular Disease I (Anterior Segment)</td>
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<td>OVS 6320 / Monocular Sensory Processes</td>
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<td>OVS 6140 / Ophthalmic Optics I</td>
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<td>PCO 6610 / General Pharmacology</td>
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## Second Year, Spring Semester

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<tr>
<td>PCO 6620 / Ocular Pharmacology</td>
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<td>OCS 6220 / Ocular Disease II (Posterior Segment)</td>
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<tr>
<td>OVS 6330 / Binoc. Vis. &amp; Oc. Motility</td>
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<td>OVS 6220 / Ophthalmic Optics II</td>
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<td>OCS 6150 / Case Analysis</td>
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<td>OCS 6160 / Optometric Theory &amp; Methods III</td>
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<td>OSC 6310 / Vision Screening II</td>
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<tr>
<td><strong>Total Hours</strong></td>
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### Third Year, Summer Session

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<tbody>
<tr>
<td>OCS 7170 / Pediatric Optometry</td>
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<tr>
<td>OCS 7180 / OTM IV</td>
<td>2</td>
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<tr>
<td>OCS 7410 / Optometric Economics I</td>
<td>2</td>
<td>0</td>
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<tr>
<td>Clinical Conference</td>
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<td>NBEO Review</td>
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<td><strong>Total Hours</strong></td>
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### Third Year, Fall Semester

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<tbody>
<tr>
<td>OCS 7510 / Anomalies of Binocular Vision I</td>
<td>2</td>
<td>2</td>
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<tr>
<td>OCS 7520 / Contact Lenses I</td>
<td>2</td>
<td>2</td>
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<tr>
<td>OCS 7230 / Ocular Disease III (Ocular/ Systemic Disease)</td>
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<td>OCS 7240 / Clinical Medicine</td>
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<td>OCS 7190 / OTM V</td>
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<td>OCS 7250 / Public Health/Epidemiology</td>
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<td>OCS 7420 / Optometric Economics II</td>
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<td>OCS 7322 / Patient Care II</td>
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### Third Year, Spring Semester

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<tr>
<td>OCS 7530 / Anomalies of Binocular Vision II</td>
<td>2</td>
<td>2</td>
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<tr>
<td>OCS 7550 / Learning Disabilities</td>
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<tr>
<td>OCS 7540 / Contact Lenses II</td>
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<td>OCS 7260 / Ocular Disease IV (Neuro-optometry)</td>
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<td>OCS 7570 / Geriatric Optometry</td>
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<td>OCS 7560 / Rehabilitative Optometry</td>
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<td>OCS 7430 / Optometric Economics III</td>
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<td>OCS 7332 / Patient Care III</td>
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### Fourth Year, (Trimesters)

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<tbody>
<tr>
<td>OCS 8580 / Clinical Seminar *</td>
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<tr>
<td>OCS 8190 / Environmental Vision *</td>
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<tr>
<td>OCS 8440 / Optometric Economics IV *</td>
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<tr>
<td>OCS 8440 / Dissertation</td>
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<td>Clinical Externship (one per trimester)</td>
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<td>Primary Care</td>
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<td>Secondary (Specialty)</td>
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<td><strong>Total Hours</strong></td>
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* = taken only specialty trimester

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College of Optometry Courses

Anatomy
Chairman & Professor: G.R. Conover; Professors: L.B. Dribin; Professors Emeriti: F.H. Higginbotham, A.C. Higginbotham; Associate Professors: J.C. Lanning, A. Mariassey

ANA 5110 / Histology & Embryology
36 Hours Lecture
18 Hours Laboratory
A general overview of histology and embryology with an emphasis on the basic tissues necessary for the understanding of the histology of the eye. Laboratories consist of the study of projected slides and the demonstration of tissues with the light microscope.

ANA 5120 / Gross Anatomy
36 Hours Lecture
36 Hours Laboratory
An introductory course designed to give students an understanding of the structure of the human body. The course is presented with an organ systems approach. Laboratory work provides a study of cadaver material.

ANA 5130 / Anatomy of the Head & Neck
25 Hours Lecture
20 Hours Laboratory
A detailed study of the gross structures of the human head and neck, including the eye. Laboratories include dissection of cadavers.

ANA 5140 / Neuroanatomy
36 Hours Lecture
36 Hours Laboratory
A study of the gross structure of the brain and spinal cord and the functional relationship among their parts. Emphasis is placed upon major motor and sensory pathways and integrative mechanisms of the central nervous system.

OVS 5210 / Ocular Anatomy
25 Hours Lecture
20 Hours Laboratory
This course is a detailed 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. Groseclose; Associate Professors: R.E. Block, E.O. Keith
**BCH 5210 / Biochemistry**  
54 Hours Lecture  
The metabolism of proteins, lipids, nucleic acids and carbohydrates will be emphasized, followed by an introduction to the biochemical aspects of the visual, digestive, muscular, respiratory and endocrine systems.

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

**MIC 5310 / Microbiology**  
*Medical Microbiology/Embryology*  
54 Hours Lecture  
The course covers immunology, bacteriology, mycology, parasitology and virology with emphasis on infectious diseases of the eye.

**Optometric Basic Science**  
Professors: W. Abel, B. Gilman, S. Schatz

**OVS 5110 / Geometrical Optics**  
72 Hours Lecture  
36 Hours Laboratory  
The principles of geometric optics will be taught with examples and optometric applications where possible. The course will include study of linear propagation, reflection, refraction, prisms, thin lenses alone and in combination, thick lenses, lens aberrations and some ophthalmic instruments.

**OVS 5130 / Physical Optics**  
36 Hours Lecture  
18 Hours Laboratory  
Optical principles, primarily those of wave optics, will be taught with applications, examples and laboratory demonstration. Included are wave equations, interference, diffraction, polarization, dispersion, photometry, spectroscopy, lasers and holographs.

**OVS 6140 / Ophthalmic Optics I**  
54 Hours Lecture  
36 Hours Laboratory  
Students apply 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 / Ophthalmic Optics II**  
54 Hours Lecture  
36 Hours Laboratory  
Design and construction of multi-focal lenses are covered. Guidelines for frame and lens choices, alignment and fitting procedures for various prescription requirements are provided. Students gain hands-on experience in selecting, ordering, fabricating, fitting and dispensing spectacles.
OVS 5310 / Psychophysics

A discussion of classical and modern methods used to measure visual thresholds will be included. Attempts to formulate a psychophysical law and an alternate to threshold determination, namely, signal detection theory, will be presented.

OVS 5210 / Visual Optics

Optical properties of the eye will be considered. Topics include refractive state of the eye, retinal image formation, accommodation and entoptic phenomena.

OVS 6320 / Monocular Sensory Processes

An introduction to perceptual properties of the visual system. Major topics will be: 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 6330 / Binocular Vision and Ocular Motility

Sensory aspects of depth perception will be covered as well as the physiological substrate for stereopsis, the nature of the horopter, tests which measure stereoacuity and principles underlying these tests. An overview of eye movements. Measurement techniques, types of eye movements and the physiological sub-systems involved in moving the eyes. Emphasis will be on understanding the interaction of eye muscles and physiological signals.

OVS 6220 / Ocular Physiology

General physiological principles and processes such as cellular membrane translocation and electrophysiology are applied to the eye and visual system. Laboratories apply these principles to methods used in routine and specialized ocular examinations.

Optometric Clinical Science

Professors: S. Abel, W. Abel, R. Gaudette, M. McKay, S. Crossman, M. Silverman; Associate Professors: A. Aran, S. Gorman, S. Holbrook, H. Purcell, P. Oliver, R. Hutchinson, J. Wolfe; Assistant Professors: E. Besada, R. Coulter, C. Morrison, J. Sowka, M. Bergman

OCS 5100 / Optometric History

The course introduces students to the role of optometry in health care, past, present and future. It addresses an optometrist's ethical, moral, and legal obligations.
**OCS 5110 / Introductory Optometry**  
36 Hours Lecture  
36 Hours Laboratory  
This course also covers elementary concepts of refractive errors, binocularity and ocular diseases.

**OCS 5130 / Optometric Theory & Methods I**  
36 Hours Lecture  
72 Hours Laboratory  
The theoretical portion consists of the purpose and meaning behind procedures and the optics of the instruments utilized. Proper recording of data and patient instructions is emphasized. Procedures taught are preliminary vision tests, refraction, keratometry, biomicroscopy, and retinoscopy.

**OCS 7510 / Anomalies of Binocular Vision I**  
36 Hours Lecture  
36 Hours Laboratory  
Testing, analysis, diagnosis and management of non-strabismus anomalies of ocular motility, accommodation and binocular vision are stressed. Lenses, prisms and vision therapy to ameliorate non-strabismus dysfunction are presented. In addition, the course presents normal development, developmental disorder and testing of vision associated with abnormal development including visual motor.

**OCS 7530 / Anomalies of Binocular Vision II**  
36 Hours Lecture  
36 Hours Laboratory  
The testing, analysis, diagnosis and management of strabismus and amblyopia will be covered in detail, as well as utilization of lenses, prisms and vision therapy to ameliorate strabismus and amblyopia.

**OCS 7550 / Learning Disabilities**  
36 Hours Lecture  
This course covers evolution and human ontogeny as they relate to vision development. Lags in vision development may negatively affect learning; therefore, the course will provide the student with the knowledge to identify and treat lags in vision development. The role of the optometrist in the interdisciplinary approach will also be addressed.

**OCS 7560 / Rehabilitative Optometry (Low Vision)**  
36 Hours Lecture  
36 Hours Laboratory  
Presents information regarding the etiology, demography, and clinical characteristics of low vision to permit a better understanding of the functional implications of visual impairment in the child and adult. The course presents a systematic approach to the diagnosis and management of visual disorders presenting within these special populations with an emphasis on improving the quality of life and functional capacity of visually impaired persons through the application of magnifications, illumination control and visual field enhancement.
**OCS 6140 / Optometric Theory & Methods II**

Concentrates on developing an understanding of the balance of procedures required to perform a comprehensive vision examination in order to enter vision clinics in the spring semester. The techniques to be taught consist of application of drops, measuring intraocular pressure, examining the fundus using a binocular indirect ophthalmoscope, a direct ophthalmoscope and a Volk 90 D lens. Binocular vision testing using a Vetrographic system is also covered.

**OCS 6150 / Case Analysis**

The course analyzes data collected during the refractive portion of the vision examination to determine appropriate treatment for refractive anomalies. The analysis consists of graphing the data and prescribing for the patient based on the graph, history, symptoms and problems presented.

**OCS 5120 / Patient Communication**

Presents optometric history, regulating agencies, code of ethics, modes of practice, and associations of the optometric profession. Legal issues and liability are stressed as are interpersonal relations between doctor and patient.

**OCS 6160 / Optometric Theory and Methods III**

Presents special testing procedures and indications for their application, such as exophthalmometry, worth 4-DOT, gonioscopy, autorefraction, autokeratometry, and Goldmann visual fields.

**OCS 7180 / Optometric Theory and Methods IV**

Presents special testing procedures and indications for their use in clinical practice, such as the Goldmann fundus lens, foreign body removal, rust ring removal, palpation of lymph nodes and carotid pulse auscultation.

**OCS 7190 / Optometric Theory and Methods V**

Presents special testing procedures and indications for their use in clinical practice, such as computer application in practice, dynamic retinoscopy, examination of children, Schirmer tear test and Jones test.

**OCS 6312 / Patient Care I**

Examinations of patients in a primary care setting.

**OCS 7322 / Patient Care II**

Examinations of patients in a primary care setting.
OCS 7332 / Patient Care III
Examinations of patients in a primary care setting.

OCS 6300 / Vision Screening I
Students will provide a battery of vision screening tests on various populations in their normal settings, e.g. school children in the public or private school system, workers in their place of employment, and others.

OCS 6310 / Vision Screening II
Students will provide a battery of vision screening tests on various populations in their normal settings, e.g. school children in the public or private school system, workers in their place of employment, and others. A continuation of Vision Screening I.

Primary Care Rotation
The goal of the OD-4 Primary Care Rotation is to educate the optometry student in all aspects of high quality primary optometric care in a real-world multidisciplinary setting, with the student functioning as the primary care giver, the attending optometric physician functioning as an advisory colleague, and with consultation/referral sources readily and conveniently available.

Medical/Surgical Care Rotation
The goal of the OD-4 Medical/Surgical Rotation is to educate student clinicians through exposure to a wide variety of significant ocular diseases and to the medical and surgical management of an array of ocular problems including but not limited to cataracts, glaucoma, and retinopathies.

Specialty Care Rotation
The goal of the specialty care rotation is to sensitize student clinicians to the complexity and unique needs and demands of patients requiring the services of optometric physicians, with advanced education and training in the areas of functional vision disorders, geriatrics, low vision and contact lens therapy.

OCS 7570 / Geriatric Optometry
Discusses aging from a sociological, psychological, and biophysiological perspective. Reviews the diagnosis and management of visual conditions and ocular diseases presenting in the well and frail older adult. Describes the role of optometric physicians as members of the multidisciplinary health care team that provides services to community-based and institutionalized geriatric patients.

OCS 7170 / Pediatric Optometry
Provides information concerning the visual needs of children and youth. This enables students to put into action their knowledge of anomalies of binocular vision, abnormal vision development and visually-related learning disabilities.
OCS 7520 / Contact Lenses I  
An introduction to contact lenses. It explores the historical, technical and clinical aspects of lens materials as well as lens design and fitting.

OCS 7540 / Contact Lenses II  
This course presents theoretical and practical aspects of fitting hydrogel and advanced lens designs and materials with a working knowledge of fitting more complex cases.

OCS 7250 / Public Health and Epidemiology  
A review of the health care system from both optometric and public health perspectives. Basic public health concepts are applied in the optometric setting. Topics include principles of epidemiology and biostatistics, plus demographic analysis.

OCS 7410 / Optometric Economics I  
Explores career path decisions and concepts of location, methods of financing, office design, and policies and procedures. Marketing, use of assistants, and management of the patient from first phone call until placement in the inactive file will be covered.

OCS 7420 / Optometric Economics II  
A more detailed study of employment opportunities, practice association or purchase, and how to select a lawyer, accountant, and financial advisor. Students will learn how to analyze a balance sheet, negotiate a bank loan and select staff and professionals. Issues of retirement conclude the course.

OCS 7430 / Optometric Economics III  
Prepares the third year student to enter the world of optometry by combining and refining the 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 8440 / Optometric Economics IV  
A lecture presentation will be given by the instructor highlighting the professional life cycle from graduation to retirement. Practical real world situations shall be brought into the classroom by way of the instructor's experiences as well as selected guest speakers. Optometric economic problem solving by the students will be expected as well as lecture presentations by each member of the class. In addition to a formal final examination, the student will be expected to prepare a presentation to simulate an interview for association into a practice together with a rational purchase or partnership agreement for that practice.
OCS 8190 / Environmental Vision  32 Hours Lecture
This course covers industrial (occupational) vision, which deals primarily with protection in the work place, such as flying objects, radiation, sparks, etc. It further expands on this topic of environmental vision by including how the human being interacts with the environment through and with the eyes. Other activities to be covered are 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).

Clinical Seminar  32 Hours
Presentation of clinical cases demonstrating the basic and advanced principles of optometric care. Cases will be drawn from patients seen in clinics and will be supported by studies from the literature.

Dissertation—Selected Topics in Optometry  32 Hours
Students will be required to complete a scholarly investigation into an approved topic after the presentation of the elements of a scholarly project, fundamentals of scientific inquiry, experimental design and analysis of data, and presentation of results.

Ocular Diseases
Chairman and Associate Professor: S. Holbrook; Associate Professor: A. Aran, M. A. Khin; Assistant Professor: M. K. Khin, A. Woods

PTH 6510 / General Pathology  54 Hours Lecture
This introduction to the study of disease covers each organ system. Special emphasis is placed on how a disease manifests itself in the eye.

OCS 6210 / Ocular Disease I (Anterior Segment)  54 Hours Lecture
Covers the diagnosis and pharmacological management of the ocular adnexa, cornea and external diseases. Clinical rotations emphasize treatment and modalities.

OCS 6220 / Ocular Disease II (Posterior Segment)  54 Hours Lecture
Covers the diagnosis and management of disease processes associated with the crystalline lens and the structures that constitute the posterior segment of the eye.

OCS 7230 / Ocular Disease III (Ocular/Systemic Disease)  54 Hours Lecture
Deals with ocular manifestations of specific systemic diseases. It addresses the physician’s treatment modalities and effects on the ocular systems. Clinical grand rounds aid in inter-disciplinary management of these problems.

OCS 7260 / Ocular Disease IV (Neuro-Optometry)  54 Hours Lecture
Covers the diagnosis and management of disease processes associated with the ocular
system in the areas of neuropathology, oncology, and radiology. Clinical rotations emphasize diagnosis and treatment.

**OCS 7240 / Clinical Medicine**  
54 Hours Lecture  
Covers the clinical process in the medical diagnosis and treatment of systemic diseases. Exposure to this subject matter allows the optometrist to better understand the management of sick patients and potential ocular complications.

**Pharmacology**  
Chairman and Assistant Professor: L. Crespo; Assistant Professor: M. Hill; Adjunct Assistant Professor: J. Barakeh

**PCO 6610 / General Pharmacology**  
72 Hours Lecture  
A thorough grounding in the principles of drug action. The classes of drugs used in clinical practice will be examined in detail, with particular emphasis on structure and activity, mode of action, side effects, toxicity and drug interactions. The pharmacological intervention of pathophysiological processes will be stressed as well as the clinical application of each drug class.

**OPCO 6620 / Ocular Pharmacology**  
54 Hours Lecture  
A study of the drugs used in the eye or capable of exerting a pharmacological or toxicological effect on the eye.

**Physiology**  
Chairman & Associate Professor: S. Taraskevich; Associate Professor: A. Posner

**PHY 5410 / Physiology**  
54 Hours Lecture  
A comprehensive study of human physiology presented with an organ systems approach. Includes the study of general (cell, membrane, muscle and blood) and cardiovascular physiology.
Administration

Raul R. Cuadrado, S.B., B.S., M.P.H., Dr. P.H., Dean
Harold E. Laubach, B.S., M.S., Ph.D., Associate Dean for Basic Sciences
Marla Frohlinger, B.A., Assistant Dean for Admissions and Student Affairs
Maryann F. Ramos, PA-C, M.P.H., Director, Physician Assistant Program
Suze Dudley, B.S., M.S., Director, Occupational Therapy Program
Catherine Page, B.S., M.Ed., Ph.D., Director, Physical Therapy Program
Mary R. Smith, Registrar
Patrick J. Gorman, B.S.H.A., Director of Student Financial Aid
Sara Schoninger, B.S., Director of Medical Communications
Steven Weinstein, B.S., C.P.A., Comptroller
Steven Culbreth, B.S., Bursar
Janice Gottlieb, M.A., M.L.S., Library Director
Daniel E. Jonas, B.S., J.D., Legal Counsel

Expenses and Financial Aid

Students should anticipate spending approximately $1,500 for books, equipment and supplies and $19,000 per twelve-month 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 publication.

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.
PHYSICIAN ASSISTANT PROGRAM

The Physician Assistant Program admitted its charter class June, 1993.

The Physician Assistant (PA) is a health care professional who is academically and clinically trained to provide services that would otherwise be provided by a licensed physician. Physician Assistants are dependent practitioners who practice medicine under the supervision of a licensed physician. Physician Assistants are qualified to obtain medical histories, perform physical examinations, order and administer tests, interpret laboratory and diagnostic studies, diagnose and determine treatment of common medical problems, assist in surgery and administer emergency care. Patient education, counseling, health promotion and disease prevention are important services also provided by the Physician Assistant.

Traditionally, PAs bring health care to underserved areas, taking jobs in rural communities that would otherwise be without health care. PAs are now in demand everywhere. Physician Assistants work in virtually every health care specialty and within a variety of settings, including private practice, urban/rural health centers, nursing homes, public health agencies, hospitals, correctional institutions, VA medical centers and industrial and military facilities.

PAs have proved to be cost effective, to promote better distribution of health care and to improve access to medical care. Where PAs are employed, waiting periods are reduced, patients receive greater attention, and patient satisfaction is high.

Requirements for Admissions

The selection of students for the Physician Assistant program is based on the prospective student's knowledge and concept of the role of the physician assistant, previous academic performance, interpersonal and communication skills, written applications, letters of evaluation, health-related experience and altruistic attitude.

Pre-Physician Assistant Studies

1. Prior to matriculation, students must complete a minimum of 60 semester hours of coursework from a regionally accredited college or university, exclusive of physical education. These include the following required courses:

   - Algebra: 3 semester hours
   - English: 6 semester hours
   - Humanities/Arts: 3 semester hours
   - Public Speaking: 3 semester hours
   - Psychology: 6 semester hours
   - Sociology: 3 semester hours
   - General Chemistry w/lab.: 8 semester hours
   - Organic Chemistry: 3 semester hours
   - Human Anatomy*: 3 semester hours
     laboratory recommended, not required
   - Physiology*: 3 semester hours
     laboratory recommended, not required
Microbiology with laboratory 3 semester hours
General Biology with laboratory
or Zoology with laboratory 4 semester hours
Electives 10 semester hours

*Anatomy and physiology combined, laboratory recommended but not required, five semester hours, may be substituted for individual anatomy and physiology courses.

Students are encouraged to complete their elective coursework in the areas of behavioral, physical and social sciences or humanities.

2. Students must have a cumulative grade point average of 2.5 or higher on a four-point grading scale. To assure a well-rounded background for professional studies, students must earn a grade of C or better in each required course.

3. All applicants who will not receive a bachelor’s degree prior to the time of matriculation are required to submit official scores from either the Allied Health Professions Admission 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 pre-physician assistant coursework 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, Health Professions Division, Nova Southeastern University, or by forwarding a written request to:

Allied Health Professions Admission Test
The Psychological Corporation
555 Academic Court
San Antonio TX 78204-2498

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

Application Procedure
Candidates for admission must submit:

1. A completed application form along with a $50.00 non-refundable application fee.

2. Three letters of evaluation from individuals, other than a relative, such as academic professors, instructors, health professionals, co-workers, or supervisors.

3. One letter of evaluation must be from a Physician Assistant.

4. Official AHPAT scores, (SAT or ACT scores, if the applicant does not have a bachelor’s degree at the time of matriculation).
5. Official college transcripts from all undergraduate and graduate institutions attended.

6. Copies of all professional certifications, registrations, licenses or relevant credentialing materials.

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.

All application documents should be received by February 15th in order for the applicant to be considered for admission in the summer 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 best interest of the candidate.

Nova Southeastern University reserves the right to modify any requirements on an individual basis as deemed necessary.

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—$10,000 for Florida residents and $11,500 for out-of-state students for the 1994-95 academic year.

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

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

5. Student Activities Fee—$100, payable at time of first semester 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 discharged.

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, rotation travel, and miscellaneous expenses.

Requirements for Graduation

In order to be eligible for the B.S. degree or certificate in Physician Assistant, students shall:
a) Be of good moral character.
b) Have satisfactorily completed the program of study required for the degree within a minimum overall GPA of 70%.
c) Have satisfactorily discharged all financial and library obligations.
d) Not hold a B.S. degree. (A certificate will be granted to students already holding a Bachelor's degree.)
e) 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 deemed appropriate.

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 ten rotations: nine required and one selective. Rotations are required in the areas of Family Medicine, Geriatrics, Emergency Medicine, Rural Medicine, Pediatrics, HIV Clinic, 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, management of common medical problems, performing common laboratory procedures and interpreting the results. The role of the Physician Assistant requires a high level of expertise and responsibility. Thus, the PA 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 receive a certificate of completion and will be awarded the Bachelor of Science degree, if not already holding a B.S. degree. Graduates will be eligible to sit for the National Board Certification Examination administered by the National Commission on Certification of Physician Assistants (NCCPA).
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Physician Assistant Courses

Basic Sciences

ANA 5420 / Anatomy 77 Hours lecture, 84 Hours laboratory
A study of the gross structures of the human body through the use of lectures, video tapes, clinical correlation sessions, laboratory cadaver dissection or prosections and demonstrations. Topographic and radiographic anatomy are integrated to stress the application and importance of clinical anatomy. The course is designed to assist the student in acquiring knowledge of human anatomy necessary for the practice of the profession.

PAC 3213 / Clinical Neuroscience 40 Hours
This is an integrated course covering the study of the gross structures of the brain and spinal cord and the functional relationship of the human nervous system. Emphasis is placed on the major motor and sensory pathways and their integrative mechanisms. Clinical case presentations encompassing the major and common neurological disease processes are presented. The basic skills of gathering historical information and interpreting the physical examination findings on the neurological patient are stressed.

MIC 5400 / Microbiology 40 Hours
The focus of this course is on the relationship of microbes to human disease and the host-immune response. The characteristics and properties of the clinically significant bacteria, virus, fungi and selected parasites are presented as are the prevention, control, and diagnostic laboratory tests of their associated specific infectious diseases.

PTH 5410 / Pathology 32 Hours
The principles of the nature, cause and development of abnormal conditions are introduced with emphasis on the inflammatory response and the structural and functional changes that result from specific disease processes.

PCO 5400 / Pharmacology 36 Hours
This course will provide a thorough understanding of the mechanisms of drug action. The classes of drugs commonly used in the Physician Assistants’ clinical practice will be examined with the emphasis on the mode of action such as rates of absorption, metabolism, excretion and effects on organ systems. The student will be introduced to the clinical application of each drug class, the side effects and toxic manifestations.

PHY 5400 / Physiology 108 Hours
This course will provide the PA student with sufficient knowledge of human physiology to understand the subsequent clinical medical courses and medical problems encountered in the primary care setting. The prevalent theories for body function are studied and the course encompasses all the major organ systems of the body.
Clinical Sciences

PAC 3228 / Basic Cardiac Life Support 4 Hours
This American Heart Association approved program is presented by certified BCLS instructors and includes performing CPR on infants and children. Upon successful completion of this program, BCLS certification is awarded. Current BCLS certification is a prerequisite to enroll in the Advanced Cardiac Life Support program.

PAC 3229 / Advanced Cardiac Life Support 16 Hours
This American Heart Association approved program is presented by certified ACLS instructors. The American Heart Association Standards and the current guidelines and practice for emergency cardiac care are taught. Laboratory simulations promote effective learning of these skills and provide the opportunity to develop and test the practical skills necessary to apply the knowledge.

PAC 3008 / Basic Trauma Life Support 24 Hours
Instruction in advanced pre-hospital assessment of the trauma victim and treatment protocols are presented. Each student is tested by written examination and practical demonstration.

PAC 3227 / Clinical Diagnostic Imaging 18 Hours
This is a clinical didactic course with the focus on common presentations in diagnostic imaging for common disease entities, injuries, and illnesses. The course is divided into an introductory session on basic principles of radiology and sections of each major area of the body are studied diagnostically.

PAC 3201 / Clinical Medicine 144 Hours
This course is specifically designed for PA students. The focus is on the common disease entities of the major organ systems as encountered in the primary care setting. The student will learn the etiology, pathophysiology, clinical manifestations, appropriate diagnostic tests and management of each selected disease entity. The material is presented in organized units of the medical disciplines including cardiology, pediatrics, gastroenterology, nephrology, endocrinology, dermatology, pulmonary disease, obstetrics/gynecology, infectious disease, neurology, hematology, psychiatry, musculoskeletal disorders, emergency medicine and infectious disease.

PTH 5420 / Clinical Pathology 32 Hours
Clinical pathology will be presented with the emphasis placed upon the proper utilization of the clinical laboratory, the rationale for selecting common diagnostic laboratory tests, interpretation of the test results and the correlation between the disease process and test results. Tests not available in the primary care setting but which are necessary for diagnosing, treatment and follow-up are presented using case studies and laboratory reports.
COLLEGE OF ALLIED HEALTH

PPS 3221 / Clinical Pharmacology  36 Hours
The course emphasizes the principles and rational clinical use of pharmaceutical therapeutics for common diseases. Appropriate drug selection, side effects and toxicities, contraindications and drug interactions are discussed as they relate to the practical aspects of primary care.

PAC 3205 / Clinical Problem Solving  18 Hours
The Physician Assistant student will learn the concepts and skills necessary for developing the differential diagnosis and management plan of clinical problems in the primary care setting. Emphasis is on correlation of historical information, physical findings and pertinent laboratory results to formulate a diagnosis. Through case presentations and medical simulations the student will utilize knowledge acquired from previous or concurrent didactic courses to develop these skills.

PAC 3105 / Communication Skills and Interviewing Techniques  54 Hours lecture, 3 hours laboratory
This course provides instruction and opportunity for PA students to learn and develop essential and effective interviewing and communication skills necessary for the Physician Assistant to perform a competent medical interview and elicit a comprehensive health history. The students will learn to record accurately the medical history and give an oral case presentation in a concise, organized and professional manner. Instructional methods include lecture, class discussions, role playing, video taping and supervised clinical experience.

PAC 3128 / Electrocardiography  9 Hours
Step by step instructions on the reading and interpretation of normal and abnormal ECGs will be given. Common cardiac diseases are presented with their clinical signs and symptoms and ECG tracings.

PAC 4400 / End of Rotation Seminars  36 Hours
Upon completion of each clinical rotation, the students return to campus for one day to complete the required end-of-rotation written examination and participate in classroom activity. Medical education seminars will be presented on topics of clinical interest and identified areas of need.

PAC 3222 / Geriatrics  18 Hours
This course focuses on the comprehensive care of the elderly patient. Emphasis is given to differentiating the normal aging process from pathological changes, identifying common clinical disease entities and disabilities of the elderly, and developing effective planning and medical management of the geriatric patient with multiple chronic problems. Home health care, community agency resources, recreation, nutrition, socioeconomic and social psychological consequences of aging and illness are topics to be included.
PAC 3224 / Cardiac Auscultation Simulation Course ("Harvey") 10 Hours
This course 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. The basic principles of auscultation will be taught. Case presentations with simulated heart sounds will provide the opportunity to problem solve and identify normal heart sounds, variations of normal, innocent murmurs and to recognize common abnormal heart sounds.

PAC 3117 / Health Care Delivery Systems 18 Hours
An introduction to the structures and administrative principles in health care organizations. The role of the PA in health care delivery system is emphasized. Topics include third party reimbursement, quality assurance, Medicaid/Medicare Programs, home health care, rural health care, National Health Insurance, and health care reform plans.

PAC 3129 / Health Promotion and Disease Prevention 18 Hours
Through lectures and small group assignments the students will learn health strategies to incorporate in the primary care setting that will promote wellness through preventive interventions and services. Emphasis is on the individual’s responsibility for one's health and the community’s efforts to protect against disease and environment hazards. Epidemiology, risk factors, screening tests and community resources are identified with each health issue presented.

PAC 3209 / History and Physical Examination Practicum 54 Hours laboratory
Scheduled clinical hours one day a week provide the PA student supervised contact time with patients in the clinical setting. Using the skills learned in the Communication Skills and Physical Assessment Skills courses, the students will elicit a comprehensive medical history, perform a complete physical examination and record the pertinent information in the proper format and give oral case presentations. The completed write-ups are submitted to the PA faculty for critiquing and grading.

PAC 3103 / Introduction to Clinical Medicine 60 Hours
This course is an introduction to pathophysiology and disease entities through the study of common presenting signs and symptoms. Selected topics of biochemistry, nutrition, and epidemiology will prepare the student for the study of clinical medicine.

PAC 3002 / Medical Terminology 1 Hour
This is a prematriculation self-study, programmed course with no formal classroom instruction. The students will learn at their own pace to acquire a good medical vocabulary and working knowledge of medical terminology used in the medical profession.
PAC 3101 / Physical Assessment Skills  36 Hours lecture, 36 Hours laboratory
Detailed instructions are provided in the principles and practice skills required to perform the physical examinations and to interpret the findings and the physical examination. Normal physical findings will be emphasized. Variants of normal and common abnormal physical findings will be introduced. Laboratory sessions will provide supervised small group practicums. At the completion of the course, each student is required to demonstrate proficiency and competency in systematically performing a complete physical examination on an adult patient.

PAC 3211 / Primary Care in Rural and Underserved Communities  18 Hours
This course will introduce the PA student to rural epidemiology, the relationship and communication with the community, the cultural diversity and effective delivery of health care needs in the rural and underserved areas.

PAC 3203 / Surgical Patient Care and Procedures  36 Hours lecture, 18 Hours lab
The fundamentals of general surgery and the basic principles of surgical patient care are presented. The focus is on common acute care and surgical entities, the diagnostic evaluation, pre- and post-operative therapeutic management and care. The laboratory practicum will introduce the student to basic procedures and practical skills utilized in the clinical setting such as aseptic techniques, operating room protocol, suturing, casting, venipuncture, injections, urethral catheterization and nasogastric intubation.

Behavioral Sciences

PAC 3004 / Interpretation of Medical Literature  12 Hours
This course provides the Physician Assistant student a working knowledge essential to read critically and to analyze medical and scientific publications and to judge their relevance to clinical use. Instructions will be given on the effective use of the medical library. Completing one assignment of practical application is required and graded.

PAC 3226 / Medical Ethics  18 Hours
Through lectures and discussion groups, the students will learn the principles and concepts in determining what action is right and what results are good when examining ethical problems in the primary care setting. The approach to solving an ethical dilemma will be emphasized. Topics and situations to be addressed include the impaired supervising physician, PA-physician conflicts, patient-PA conflicts, euthanasia and the PA role, and risk management.

PAC 3207 / Psychosocial Issues in Medicine  36 Hours
The most common psychosocial problems encountered by health care professionals are presented. Emphasis will be on the recognition and understanding of the development of these behaviors and related problems. The development and impact of the patient-clinician relationship is stressed. Through lectures, class discussions,
role playing and case studies the student will develop counseling skills, improve communication skills, and learn appropriate interventions and treatment regimens. Through a self assessment, the students will make adjustments in their own attitudes toward these common psychosocial problems.

**PAC 3006 / The Physician Assistant Profession and Legal Issues** 12 Hours

This course is designed to address current issues in the PA profession, its past, present and future and the unique role of PAs within the health care system. Through lectures and panel discussions, the student will gain practical insight to risk management, political and legal issues and how the law is applied to medical practice and malpractice. The students will be introduced to the national and state PA organizations, Florida statutes and regulations, and current legislative issues in Florida.
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 MOT is designed so that a student may enter after ninety credits of undergraduate work, or after completing an undergraduate or graduate degree. The Dr. O.T. is designed for the student who obtained an M.O.T. from Nova Southeastern University or the practicing occupational therapist who wishes to obtain a professional doctoral degree.

The Occupational Therapist must be an expert in the knowledge of occupation and its role in health and adaptation, and in the use of occupational therapy. Occupational therapy practice requires the therapist to exercise increasingly complex, autonomous decision-making and problem-solving 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.

Master of Occupational Therapy

Requirements for Admission

Prior to matriculation into the Master of Occupational Therapy Degree Program, students must complete a minimum of 90 semester hours of coursework from a regionally accredited college or university. A minimum of thirty of these credits must be at the junior or senior level. These include the following courses:

- Biology with laboratory or Anatomy & Physiology with laboratory: 4 credits
- Human Growth and Development (Infancy through Aging): 3 credits
- Literature and composition courses: 6 credits
- Psychology (preferably Introduction to Psychology, Abnormal Psychology, and Personality): 9 credits
- Sociology or Anthropology (emphasis on multicultural traditions): 6 credits
- Statistics: 3 credits

*Strongly recommended*
- Computer Literacy or Proficiency: 3 credits
- Ethics: 3 credits
- Humanities: 9 credits
- Physics with laboratory: 8 credits
- Public Speaking or Performance: 3 credits

As part of the ninety required semester hours, additional social and behavioral sciences or humanities courses are recommended. Students must have a cumulative grade point average of 2.5 or higher on a four point scale. Students must earn a 2.0 or better in each required course. Applicants are required to submit official scores from the Scholastic Aptitude Test (SAT) if applying without a baccalaureate degree or the Graduate Record Examination (GRE) if applicant has completed a baccalaureate degree. SAT scores are acceptable if taken as part of the candidate's high school sequence.
Preference for admission will be given to students with a strong liberal arts background who have demonstrated an ability to work with people and a concern for the welfare of others.

Application Procedure

Candidates for admission must submit or be responsible for submission of:
1. A completed application form along with a $50 nonrefundable application fee
2. Three letters of evaluation from professors, work supervisors, or volunteer supervisors.
3. Official SAT or GRTE scores
4. Official college transcripts from all undergraduate or graduate institutions attended.

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.

Tuition and Fees

1. Tuition- $13,500 for Florida residents and $15,500 for out-of-state students for 1994-95 academic year.
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. This is due February 15, under the same terms as the Acceptance Fee.
4. Pre-Registration Fee- $500. This is due April 15, under the same terms as the Acceptance Fee.
5. Student Activities Fee- $100, payable at time of first semester 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 discharged.

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, rotation travel, and miscellaneous expenses.
Requirements for Graduation
In order to be eligible for the M.O.T. degree, students shall:

a) Be of good moral character.

b) Have satisfactorily completed the program of study required for the degree within a minimum overall GPA of 80%.

c) Have satisfactorily discharged all financial and library obligations.

d) Successfully complete the clinical internship including a critical inquiry project.

e) 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 deemed appropriate.

Course of Study
The academic discipline of occupational therapy draws upon and integrates a wide range of interdisciplinary topics. It includes theories that illuminate the understanding of occupation in human life, the role of occupation in health and adaption, and the art and science of using occupational activities as therapeutic agents.

CURRICULUM OUTLINE

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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 or original clinical research. A maximum of 36 credits may be transferred from other graduate programs with advisory committee approval.

Requirements for Admission

Applicants must have either a Bachelor's or a Master's Degree in Occupational Therapy or a certificate in Occupational Therapy and be eligible for a Florida Occupational Therapy license.

Preference for admission will be given to students with a cumulative grade point average of 3.0 or higher on a four point scale for the last two years of their most recent degree.

Applicants are required to submit official scores from the Graduate Record Examination. A score of 1000 is preferred. Foreign students must take the TOFEL (Test of English as a Foreign Language) 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 persons who can address the applicant's capability for doctoral study.
3. Official GRE scores. TOFEL scores, if appropriate.
4. Official college transcripts from all undergraduate and graduate institutions attended.
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, by letter, 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.

**Course of Study**

1. Students holding a master's degree with transferable credit:

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<td>Dissertation Research</td>
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2. Students holding a baccalaureate degree in occupational therapy:

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**Occupational Therapy Courses**

*ANA 5516 Gross Anatomy I*  
6 Credits  
Detailed anatomy of the trunk and extremities. Laboratory activities consist of teams of students studying prosected cadavers, sections, bone sets, videotapes, radiographs, and models.

*ANA 5523 Gross Anatomy II*  
3 Credits  
Detailed anatomy of the head and neck. Laboratory activities consist of teams of students studying prosected cadavers, sections, bone sets, videotapes, radiographs, and models.
ANA 5533 Neuroanatomy 4 Credits
Detailed anatomy of the central and peripheral nervous systems. Laboratory activities consist of teams of students studying prospected cadavers, sections, radiographs, and models.

OCT 5010 Historical and Theoretical Foundations of Occupational Therapy 3 Credits
This course looks at the social-cultural heritage of occupational therapy and the people who formulated the ideas and concepts on which the profession is based. Students explore the relationship between the philosophical, theoretical, and knowledge bases of occupational therapy.

OCT 5011 Human Occupation Across the Life Span 6 Credits
This course introduces the diversity and richness of activities that influence engagement, motivation, health, and independence of individuals from infancy to old age. Perception, observation, appreciation, analysis, prediction, selection, and presentation of occupations that exhibit appropriateness for individuals as determined by age and interest are an integral part of this course.

OCT 5013 Creative Occupations as Therapeutic Modality 2 Credits
This course focuses on the therapeutic value of creativity. The meaning of significance, involvement, challenge, success, and competence are experientially explored. Students will learn how to structure, adapt, plan, present, and assess activities for use with clients.

OCT 5015 Occupations in Diverse Cultures 3 Credits
This course offers an experientially based course that looks at the influence of culture on human occupations. Students have an opportunity to explore cultural impact and meaning and the contributions of world view ritual to everyday life. Focus will be on adaptations and therapeutic use of occupations to address client problems taking culture, background, and environment into consideration.

OCT 5121 Clinical Signs and Symptoms I 4 Credits
Problems will be presented in motor, sensory, cognitive, interpersonal, self-care, productivity and leisure areas that may be seen by an occupational therapist as a result of pathophysiological dysfunction. Class parallels content presented in Gross Anatomy.

OCT 5123 Clinical Signs and Symptoms II 4 Credits
A continuation of Clinical Sign and Symptoms I.

OCT 5132 Organization and Administration 3 Credits
Focuses upon the occupational therapist as administrator of clinical services. Includes systems theory, management theory and techniques.
### OCT 5174 Research Methods for Occupational Therapist 3 Credits
Presented is exploration of research methods applicable to the practice of occupational therapy. Focuses on evaluation data as bases for research. Prerequisites: statistics.

### OCT 5243 Occupational Therapy Pediatric Practice 10 Credits
This course addresses the practice of occupational therapy for children and infants, including evaluation and treatment techniques, treatment and discharge planning, working with families. Course format: lecture, laboratory and fieldwork level I experience. Prerequisites: OCT 5121, OCT 5822, OCT 5123, OCT 5824, OCT 5015.

### OCT 5343 Occupational Therapy in Mental Health Practice 10 Credits
The practice of occupational therapy in mental health/psychiatry. Includes application of evaluation techniques, treatment and discharge planning, working in community and acute care environments. Course format: lecture, laboratory and fieldwork level I experiences. Prerequisites: OCT 5121, OCT 5822, OCT 5123, OCT 5824, OCT 5015.

### OCT 5443 Occupational Therapy in Physical Dysfunction/Work Practice 10 Credits
The practice of occupational therapy as it relates to the treatment of the physically disabled including work-related injuries. Course focuses on biomechanical and neurological basis of treatment. Includes treatment techniques, treatment and discharge planning. Course format: lecture, laboratory and fieldwork experience. Prerequisites: OCT 5121, OCT 5822, OCT 5123, OCT 5824, OCT 5015.

### OCT 5643 Occupational Therapy Geriatric Practice 10 Credits
This course addresses the practice of occupational therapy for the aged. Includes evaluation and treatment techniques including treatment planning, discharge planning and working with families. Course format: lecture, laboratory and fieldwork level I experience. Prerequisites: OCT 5121, OCT 5822, OCT 5123, OCT 5824, OCT 5015.

### OCT 5822 Data Collection and Assessment I 3 Credits
Occupational evaluation and assessment of motor, sensory, cognitive, interpersonal, intrapersonal, self-care, productivity, and leisure areas. Class work parallels content presented in Gross Anatomy and Clinical Signs and Symptoms.

### OCT 5824 Data Collection and Assessment II 3 Credits
This is a follow-up of Data Collection and Assessment I.

### OCT 5963 Topical Issues Surrounding Fieldwork 3 Credits
Seminar designed to accompany fieldwork placement that addresses issues of practice. Topics for analysis and discussion will be presented by students; this course is team taught.
OCT 5981 Fieldwork Level I
Twelve-week supervised internship in an approved practice setting. Prerequisites: Completion of MOT formal coursework.

OCT 5982 Fieldwork Level II
Twelve-week supervised internship in an approved practice setting. Prerequisites: Completion of MOT coursework.

OCT 6010 Theory Development for Models of Practice
Theoretical concepts, their development and application for the further advancement of occupational therapy practice are presented.

OCT 6011 Cross Cultural Perspective of Functional Performance
Study of the meaning, function and role of purposeful activity in varying cultures predominant in Southern United States. Analysis of purposeful activity as treatment media for occupational therapists. Includes field experience.

OCT 6102 The Occupational Therapist as Clinical Educator
Principles of clinical instruction appropriate for use with students as well as patients and families. Includes instructions in learning theory, instructional techniques, and educational media.

OCT 6109 The Occupational Therapist and Cultural Diversity
An examination of varying cultures and their related health tradition. Practical application of intervention strategies appropriate for members of varying ethnic and cultural groups. Emphasis placed upon African American, Hispanic, and Asian traditions.

OCT 6113 Occupational Therapy and the Americans With Disabilities Act
This course involves an in-depth analysis of the impact of the ADA on the practice of occupational therapy in a variety of settings. Students will explore new challenges therapists face as the ADA legislation influences goals and changes roles for members of the profession.

OCT 6130 Health Care Reform
In this course, students explore 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 effect change.

OCT 6132 Advanced Legal and Ethical Issues In Health Care
An examination of current legal and ethical issues affecting health care delivery. Addresses 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 and expert witness testimony.
OCT 6170 Research Methods for Occupational Therapists  3 Credits
An in-depth study of research methods applicable to the practice of occupational therapy. Includes research design, methodology and analysis. Prerequisite of 6 semester hours of statistics.

OCT 6170 Special Topics in Occupational Therapy  3 Credits
This seminar for doctoral students only investigates timely topics of critical interest to health care providers.

OCT 6171 Qualitative Research Methods for Occupational Therapists  3 Credits
This is a study and application of qualitative methods useful in the documentation and evaluation of patient treatment. Students will design a qualitative study for their area of clinical specialization.

OCT 6211 Feeding Assessment and Intervention for the Child With Central Nervous System Dysfunction  3 Credits
This course is designed to provide an understanding of the normal acquisition of oral-motor and feeding skills as well as the assessment and treatment of feeding problems. Transition from tube feeding to oral feeding will be addressed.

OCT 6240 Functional Assessment and Treatment Strategies for the Infant and Young Child with Visual Impairment  3 Credits
This course focuses on visual problems seen in infants and young children, the assessment of functional visual skills and intervention strategies currently used. Emphasis is placed on an interdisciplinary approach to functional independence for blind and visually impaired children.

OCT 6241 Pediatric Occupational Therapy Services in the Community  3 Credits
The content stresses the cultural, social, and environmental influences upon the child with disability and his/her family. The relationship of these influences to the identification, evaluation and treatment process will be explored. Models of service delivery will be assessed and analyzed for their applicability to children in urban and rural areas. Includes field experiences.

OCT 6242 Neurodevelopmental and Sensory Integration Treatment for the Infant and the Young Child  4 Credits
This course covers the neuroscience basis for NDT and SI treatment approaches with children. Emphasis is placed on the combined treatment effect. Course includes laboratory experiences with treatment for young children and instruction to family members for total child management.

OCT 6243 School Based Occupational Therapy: New Models of Practice  3 Credits
Changes in the practice of school based therapy will be explored and new treatment strategies will be addressed. Influence of law, funding and service delivery model on treatment of children in the educational system will be analyzed.
OCT 6301 History of Occupational Therapy in Mental Health 3 Credits
Historical antecedents of mental health practice in occupational therapy. Examination of contemporary practice models from historical perspective with projections of relevance of future practice models relevant to changes in health care delivery system.

OCT 6302 Contextual Analysis of Occupational Therapy Performance in Mental Health 3 Credits
Study of human and nonhuman environment related to occupational performance in mental health. Each student will develop a methodology for environmental analysis applicable for clinical practice.

OCT 6321 Occupational Therapy Assessments for Mental Health Practitioners 3 Credits
Critical evaluation of occupational therapy evaluation tools including their theoretical underpinnings. Includes an investigation of methodologies that more effectively assess occupational performance components related to mental health.

OCT 6441 The Occupational Therapist Rehabilitates the Worker 3 Credits
Evaluation and treatment strategies for injured workers. Focus is placed on development of intervention programs, practice and reimbursement issues.

OCT 6442 Injuries of the Hand 3 Credits
Specific investigations of the advanced management of complex hand injuries. Includes advanced splinting and mobilization techniques.

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

OCT 6571 Rural Health Issues in Rehabilitation 3 Credits
A course designed for advanced students who wish to practice in rural environments. Includes a significant practicum experience in AHEC sites.

OCT 6792 The Occupational Therapist As Injury Prevention Consultant 3 Credits
Applies principles of occupational therapy theory and practice to injury prevention in industry. Students critically examine various work sites and prevention programs. Ergonomic principles will be stressed.

OCT 6820 Evaluative Procedures For Occupational Therapist I 3 Credits
Study of design, selection, evaluation and construction of measuring instruments. Prerequisites: Statistics.
OCT 6821 Evaluative Procedures For Occupational Therapist II 3 Credits
Investigation of evaluative procedures appropriate for specialized areas of practice. Includes the development of new evaluative procedures for specific target populations.

OCT 6831 The Occupational Therapy Consultant 3 Credits
Course investigates theories, practice and principles of occupational therapy consultation in a variety of practice areas. Students will address system diagnosis and assessment, team building and decision making.

OCT 6848 Closed Head Injury 4 Credits
Advanced intervention techniques applicable for patients who suffer severe head injury. Includes clinical experiences with evaluation indicators for recovery.

OCT 6911 Functional Performance and Aging Process 3 Credits
This course studies occupational performance components and their impact on functional activity of the elderly. Attention is devoted to strategies to maintain and optimize independence in the elderly. Students will be assigned to an elderly family which they will follow and serve as advocate for over a two semester sequence. Includes field experience.

OCT 7670 Doctoral Dissertation 12 Credits
Supervised, original clinical study of occupational therapy evaluation or intervention. Prerequisite, admission to candidacy.

OCT 7650 Clinical Residency 12 Credits
One-year supervised clinical practice in a setting approved by the student's supervisory committee. Placement must fulfill established parameters for level of practice.
PHYSICAL THERAPY PROGRAM

The physical therapist is a health care professional who diagnoses and treats physical impairment and disability that results in movement dysfunction which can occur at any time across 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 generate data for and to analyze 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 health care providers. This means that the physical therapist is a primary care provider who stands beside other health care providers in the diagnosis and treatment of physical impairments and disabilities that result in movement dysfunction regardless of the setting the patient is found.

Requirements for Admission

Selection for students for the Physical Therapy Program is based on performance during a group interview, prior academic performance, and references. We seek students who have qualities such as assertiveness, initiative, leadership, self-understanding, openness, and strong communication skills. Students must also be emotionally stable, cooperative, and have a strong knowledge of the physical therapy profession.

Applicants must hold a Bachelor's degree with a cumulative GPA of at least 2.5 and show evidence of the following course work:

- English (oral and written communication) 9 semester hours
- Mathematics 1 6 semester hours
- Humanities (art, foreign language, literature, philosophy, humanities) 9 semester hours
- Social Sciences (sociology, geography, economics, history) 9 semester hours
Psychology (one course must be human growth and development) 9 credits
Biology including laboratory 8 credits
Chemistry including laboratory 8 credits
Physics including laboratory 8 credits

Recommendations:
Evidence of computer skills through course work, self study.
Statistics

All applicants must complete the AHPAT test before matriculation. Applications are available through the Office of Admissions or by requesting an application from:

Allied Health Professions Admissions Test
The Psychological Corporation
555 Academic Court
San Antonio, TX 78204-2498

Application Procedure:
Candidates for admission must submit:
1. A completed application form with a $50.00 non-refundable application fee.
2. Three letters of evaluation from individuals, other than a relative, such as faculty, co-workers, health care providers, supervisors. Letters from physical therapists are strongly recommended.
3. AHPAT scores.
4. Official transcripts from all undergraduate and graduate institutions attended.
5. Copies of all professional certifications, registrations, licenses, or other relevant credentials.

Upon the 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 the 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.

All application documents should be received by December 31 in order to be considered for admission the following fall. Notice of acceptance or other action by the Committee on Admissions will be on a periodic schedule ("rolling" admissions). Early completion of the application is, therefore, in the best interest of the potential student.

Nova Southeastern University reserves the right to modify any requirements on an individual basis as deemed necessary.
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- $16,000 for Florida residents and $18,500 for out-of-state students for 1994-95 academic year (fall, spring, and summer terms).

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. This is due on June 1, under the same terms as the Acceptance Fee.

4. Pre-registration fee-$500. This is due on July 1, under the same terms as the Acceptance Fee.

5. Student's Activities Fee-$100, payable at time of first semester registration.

The fall, spring, and summer term's tuition and fees, less the $1,000 previously paid, are due on or before Registration Day. Tuition for each subsequent term is due on or before the appropriate Registration Day. Students will not be admitted until their financial obligations have been discharged.

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, rotation travel, and miscellaneous expenses.

Accreditation Status

The Physical Therapy Program seeks accreditation from the Commission on Accreditation of Physical Therapy Education (CAPTE). The first step in this process, submission of a declaration of intent, has been completed. In fall, 1994, CAPTE will determine whether the program has achieved candidacy status by demonstrating the intent to comply with accreditation standards. The final accreditation process is retroactive; therefore, the final decision on accreditation of the program will occur in spring, 1996, upon completion of the curriculum for the first time.

Requirements For Graduation

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

a) Be of good moral character.

b) Have satisfactorily completed the program of study required for the degree within a minimum overall GPA of 70%.

c) Have satisfactorily discharged all financial and library obligations.

d) Successfully complete the clinical internship including a critical inquiry project.

e) Attend in person the rehearsal and commencement program, at which 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 deemed appropriate.

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 calendar years. Students are admitted in August every year. The two-year program includes 18 weeks of full-time clinical practice at the end of the on-campus work. While on campus, students' learning experiences occur in lecture, laboratory, small-group, and self-directed study as well as through patient care experience in a clinical setting. Faculty members team teach the physical therapy courses.

Graduates will be awarded a Master's degree in Physical Therapy (MPT) upon completion of graduation requirements which include a clinical internship and acceptance of a clinical research project.
# CURRICULUM OUTLINE

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<td>PHT 5622</td>
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## Second Year

### Summer (9 Weeks)

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<td>PHT 6613</td>
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### Spring

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<td>PHT 6623</td>
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Physical Therapy Courses

**PHT 5615 / Clinical Signs and Symptoms of Dysfunction I**  5 Credits
Detailed discussion of pathophysiology with subjects paralleling topics in Gross Anatomy. Focus on clinical signs and symptoms as basis for differential diagnosis by physical therapists. (5 hours lecture/week for 19 weeks)

**PHT 5624 / Clinical Signs and Symptoms of Dysfunction II**  4 Credits
Continued detailed discussion of pathophysiology with subjects paralleling topics in Gross Anatomy and Neuroanatomy. Focus on clinical signs and symptoms as basis for differential diagnosis by physical therapists. (4 hours lecture/week for 19 weeks)

**PHT 6612 / Diagnosis I**  2 Credits
Making professional judgements based on assessments, history, and physical examination to determine diagnosis. Documentation of data collected with focus problems of the cardiopulmonary, integumentary, circulatory, reproductive, and gastrointestinal systems. Patient participation in goal setting with the physical therapist is emphasized. Problem solving, small group laboratories. (8 hours problem solving laboratory/week for 9 weeks)

**PHT 6622 / Diagnosis II**  2 Credits
Continuation of Diagnosis I with focus on the musculoskeletal system. (8 hours problem solving laboratory/week for 9 weeks)

**PHT 6632 / Diagnosis III**  2 Credits
Continuation of Diagnosis II with focus on the neuromuscular system. (8 hours problem solving/week for 9 weeks)

**ANA 5616 / Gross Anatomy I (Fall)**  6 Credits
Detailed anatomy of the trunk and extremities. Laboratory consists of teams of students' study of prosected cadavers, sections, bone sets, videotapes, radiographs, and models. (4 hours lecture and 4 hours laboratory/week for 19 weeks)

**ANA 5623 / Gross Anatomy II (Spring)**  3 Credits
Continuation of Gross Anatomy I with attention to the head and neck. (4 hours lecture and 4 hours laboratory/week for 9 weeks)

**MVS 5633 / Human Movement Case Studies**  3 Credits
Application of concepts of movement science to case studies conducted as independent study concurrent with Movement Science I and Movement Science II. Written case studies and oral presentations.
PHT 5613 /Introduction to Patient Data Base I
3 Credits
Application of differential diagnosis to history taking and patient interview in laboratory practice. Application to physical examination of surface anatomy, palpation, manual muscle testing, goniometry, and vital signs in laboratory practice. Small group work paralleling content as presented in Gross Anatomy and Clinical Signs and Symptoms. (6 hours laboratory/week for 19 weeks)

PHT 5622 /Introduction to Patient Data Base II
2 Credits
Continued application of differential diagnosis to history taking and patient interview in laboratory practice. Application of surface anatomy, palpation, manual muscle testing, goniometry, and neurological and reflex testing to physical examination in laboratory practice. Small group work paralleling content presented in Gross Anatomy, Neuroanatomy, and Clinical Signs and Symptoms. (6 hours laboratory/week for 19 weeks)

MPT 6614 /Managing Quality in Physical Therapy I
4 Credits
Application of management skills and perspectives in environments such as treatment, consultation, education, training, and public health. Ethical and legal decisions in provision of services and utilization of human resources to improve quality and manage risks in a cost effective manner with consideration for public welfare. Small group discussions, projects and presentations. (8 hours group discussions and presentations for 19 weeks)

MPT 6622 /Managing Quality in Physical Therapy II
2 Credits
Continuation of Physical Therapy I (8 hours group discussions and presentations for 9 weeks)

MVS 5612 /Movement Science I
2 Credits
Analysis and assessment of normal human movement including gait through integrated study of exercise physiology, kinesiology, neurophysiology, and mind/body concepts. Lecture and demonstrations. (13 hours lecture/week for 3 weeks)

MVS 5622 /Movement Science II
2 Credits
Analysis and assessment of abnormal human movement including gait deviations through integrated study of cardiopulmonary pathology, pathokinesiology, and neurological pathology. Lecture and demonstrations. (13 hours lecture/week for 3 weeks)

ANA 5633 /Neuroanatomy
3 Credits
Detailed anatomy of the central and peripheral nervous systems. Laboratory consists of teams of students' study of prosected cadavers, sections, videotapes, radiographs, and models. (4 hours lecture and 4 hours laboratory/week for 9 weeks)
PHT 6613 / Physical Therapy Intervention I  3 Credits
Determination of effectiveness and efficient use of therapeutic procedures and
techniques, physical agents, and performance activities commonly used by physical
therapists in treatment of impairment and disability-related dysfunction of the
cardiopulmonary, integumentary, circulatory, reproductive, and gastrointestinal sys­
tems. Selection of interventions to establish a care plan for accomplishing desired
physiological and functional outcomes. Determination of appropriate delegation of
responsibility to support personnel. Accurate documentation of treatment rendered
and response to treatment. (6 hours lecture/week for 9 weeks)

PHT 6623 / Physical Therapy Intervention II  3 Credits
Continuation of Physical Therapy Intervention I, as applied to the musculoskeletal
system (6 hours lecture/week for 9 weeks)

PHT 6633 / Physical Therapy Intervention III  3 Credits
Continuation of Physical Therapy Intervention II, as applied to the neuromuscular
system (6 hours lecture/week for 9 weeks)

PTL 6612 / Physical Therapy Intervention Practice I  2 Credits
Practice of common physical therapy procedures and techniques will include thera­
peutic exercise, physical agents, electrotherapy, cardiac rehabilitation, and other
therapy, for problems identified in Diagnosis I. Emphasis will be placed on teaching
and learning, evaluation of the efficacy of interventions, and skill development. (8
hours small group laboratories/week for 9 weeks)

PTL 6622 / Physical Therapy Intervention Practice II  2 Credits
Continuation of Physical Therapy Intervention Practice I, for problems identified in
Diagnosis II. (8 hours small group laboratories/week for 9 weeks)

PTL 6632 / Physical Therapy Intervention Practice III  2 Credits
Continuation of Physical Therapy Intervention Practice II, for problems identified in
Diagnosis III.

SPC 5614 / Socialization for Professional Patient Care I  4 Credits
Explorations of the foundations of physical therapy, the current health care delivery
system and reform and the roles of physical therapists in health care.
(4 hours lecture/week for 19 weeks)

SPC 5624 / Socialization for Professional Patient Care II  4 Credits
Continued exploration of the physical therapy profession with focus on health care
education, teaching and learning principles, consulting skills, ethical and legal issues,
and the future of physical therapy. (4 hours lecture/week for 19 weeks)
CLE 5612 / Tier I Clinical Education 2 Credits
Practice of interview, history taking, and physical examination under the direction of a physical therapist in clinical practice. (4 hours clinical practice/week for 19 weeks)

CLE 5622 / Tier II Clinical Education 2 Credits
Practice of interview, history taking, physical examination, and analysis of human movement under the direction of a physical therapist in clinical practice. Students must submit report of a clinical experience. (8 hours clinical practice/week for 6 weeks)

INT 6619 / Tier III-A Clinical Internship 9 Credits
Beginning half of the 18-week clinical internship with focus on the practice of physical therapy skills in primary care settings. The student will be given the opportunity to identify a clinical efficacy study and be guided in the development of a research project related to a clinical problem. (Full time clinical practice for 9 weeks)

INT 6629 / Tier III-B Clinical Internship 9 Credits
Second half of 18-week clinical internship with focus on the practice of physical therapy skills in primary care settings. Concludes with two-day seminar and report of plan for professional development. (Full time clinical practice for 9 weeks)
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<td>Ramiro J. Abaunza</td>
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<td>1957</td>
<td>National University of Nicaragua</td>
<td>Clinical Assistant Professor of OB/GYN</td>
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<td>Stewart Abel</td>
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<td>1960</td>
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<td>Wanda S. Abel</td>
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<td>Frank C. Barone</td>
<td>B.A.</td>
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<td>Patrick Bentley</td>
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Clinical Associate Professor of Geriatrics  
Clinical Assistant Professor of Psychiatry  
Clinical Instructor in Family Medicine  
Professor of Psychiatry  
Clinical Assistant Professor in Family Medicine  
Professor Emeritus of Community Medicine  
Associate Professor of Microbiology  
Clinical Assistant Professor of Obstetrics and Gynecology  
Clinical Instructor in Internal Medicine  
Clinical Assistant Professor of Family Medicine  

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<td>Louis Butera</td>
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<td>Frantz Chery</td>
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<td>Faculté de Médecine et de Pharmacie</td>
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<td>Irene Clavijo</td>
<td>B.S. - 1990</td>
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<td>Assistant Professor of Pharmacy Practice</td>
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<td>Carlos Eduardo Coelho</td>
<td>M.D. - 1992</td>
<td>Medical University of South Carolina</td>
<td>Assistant Professor of Internal Medicine</td>
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## FACULTY MEMBERS

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<td>Stanley Cohen</td>
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<td>Robert A. Collins</td>
<td>D.O.</td>
<td>1967</td>
<td>University of Health Sciences/College of Osteopathic Medicine</td>
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<td>University of Buenos Aires School of Medicine</td>
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Assistant Professor of Pharmacy Practice

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Pharm.D. - 1987 - Mercer University

Clinical Associate Professor of Internal Medicine

Eric T. Elmquist
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Clinical Assistant Professor

Herman M. Epstein
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M.D. - 1977 - New York Medical College

Clinical Associate Professor of Emergency Medicine

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D.O. - 1975 - Chicago College of Osteopathic Medicine

Fellow, American College of Osteopathic Emergency Physicians

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M.D. - 1982 - University of Florida

Clinical Instructor in Radiology

Paul Farkas
B.S. - 1954 - Columbia University
M.S. - 1955 - Columbia University
O.D. - 1968 - Pennsylvania College of Optometry

Clinical Associate Professor of Internal Medicine

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M.D. - 1954 - University of Cluj, Roumania

Clinical Assistant Professor in Internal Medicine

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Clinical Instructor in Emergency Medicine

Michael Farrell
M.D. - 1975 - University of Liverpool School of Medicine

Fellow, American College of Emergency Physicians

Arnold L. Feiner
B.A. - 1967 - Brooklyn College
M.S.W. - 1969 - Adelphi University
Ph.D. - 1979 - University of Miami

Instructor in Psychiatry
<table>
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<tr>
<th>Name</th>
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| Barry Feingold     | Associate Professor of Emergency Medicine  | B.S. 1971 Temple University  
|                    |                                            | D.O. 1975 Philadelphia College of Osteopathic Medicine        |
| Arthur Feldman     | Associate Professor of Family Medicine     | B.S. 1947 Muhlenberg College  
|                    |                                            | D.O. 1951 Philadelphia College of Osteopathic Medicine        |
|                    | Fellow, American College of Osteopathic Family Practitioners |
| Israel Feldman     | Clinical Professor of Dermatology         | Ph.G. 1924 Philadelphia College of Pharmacy & Science         
|                    |                                            | D.O. 1940 Philadelphia College of Osteopathic Medicine        |
|                    | Fellow, American Osteopathic College of Dermatology |
| Michael G. Fendick | Associate Professor of Optometry           | B.A. 1974 State University of New York  
|                    |                                            | O.D. 1978 New England College of Optometry                    |
|                    |                                            | Ph.D. 1984 University of California                           |
| Eric Fernandez     | Clinical Assistant Professor of Internal Medicine | B.S. 1965 University of Maryland            
|                    |                                            | M.D. 1972 University of Salamanca                             |
| Andrew Fetchik     | Clinical Assistant Professor of Family Medicine | D.O. 1987 University of Osteopathic Medicine and Health Sciences |
| Bradley S. Feuer   | Clinical Assistant Professor of Family Medicine | B.S. 1980 University of Miami            
|                    |                                            | D.O. 1986 New York College of Osteopathic Medicine            |
| Allan N. Fields    | Clinical Associate Professor of Surgery    | B.S. 1963 Fairleigh Dickinson University                      |
|                    |                                            | D.O. 1967 Philadelphia College of Osteopathic Medicine        |
| Steven Fields      | Clinical Associate Professor of Internal Medicine | M.D. 1982 Hahnemann University                           |
| Winifred Fili      | Clinical Assistant Professor of Emergency Medicine | B.A. 1974 Boston University           
|                    |                                            | M.D. 1983 University of Miami School of Medicine              |
| Richard Finkel     | Assistant Professor of Pharmaceutical Sciences | B.S. 1956 University of Florida                
|                    |                                            | Pharm.D. 1992 Southeastern University College of Pharmacy     |
| Daniel M. Finkelstein | Professor of Radiology                   | B.A. 1943 New York University                               
|                    |                                            | D.O. 1946 Philadelphia College of Osteopathic Medicine        |
| Mark Finkelstein   | Clinical Assistant Professor of Radiology  | B.A. 1976 University of Miami                                
|                    |                                            | D.O. 1980 Philadelphia College of Osteopathic Medicine        |
|                    |                                            | M.Sc. 1985 Philadelphia College of Osteopathic Medicine       |
| John T. Fischer    | Clinical Associate Professor of Obstetrics & Gynecology | B.S. 1950 University of Notre Dame                        
|                    |                                            | D.O. 1954 Chicago College of Osteopathic Medicine            |
| Gary Fishman       | Clinical Instructor in Psychiatry          | B.S. 1970 Wayne State University                             
|                    |                                            | D.O. 1976 Michigan State University College of Osteopathic Medicine |
| Kristen Flaharty   | Assistant Professor of Pharmaceutical Sciences | B.S. 1983 University of Michigan                       
|                    |                                            | Pharm. D. 1987 University of Michigan                        |
| Walter B. Flesner, III | Clinical Assistant Professor of Family Medicine | B.S. 1976 University of Illinois                   
|                    |                                            | M.S. 1977 University of Illinois                             
<p>|                    |                                            | D.O. 1981 Chicago College of Osteopathic Medicine            |</p>
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<td>Onelia Garcia, Jr.</td>
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<td>Roland E. Gaudette</td>
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<td>U. William Geertz</td>
<td>Ph.D.</td>
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<td>Kenneth M. Gelman</td>
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<td>1976-79</td>
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<td>Catherine Gemmitti</td>
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<td>Joseph A. Giannino</td>
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</tr>
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<td>Lloyd D. Gladding</td>
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<td>1973-77</td>
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<tr>
<td>Cliff M. Glasser</td>
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<td>Todd M. Goldberg</td>
<td>D.O.</td>
<td>1989</td>
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<td>Martin J. Goldstein</td>
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<td>Domingo Gomez</td>
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<td>1968-75</td>
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<td>Miguel A. Gonzales</td>
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<tr>
<td>Jean S. Gordon</td>
<td>B.A. M.D.</td>
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<td>University of Maine Jefferson Medical College</td>
</tr>
<tr>
<td>Mark W. Gordon</td>
<td>B.S. M.D.</td>
<td>1963-67</td>
<td>Ursinus College Jefferson Medical College</td>
</tr>
</tbody>
</table>
N. Scott Gorman  
A.A. - 1969 - University of Florida  
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Maxwell Greenhouse  
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D.O. - 1939 - University of Osteopathic Medicine and Health Sciences  
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Jerome A. Greenspan  
B.S. - 1945 - Temple University  
D.S.C. - 1949 - Temple University  
B.S. - 1950 - Philadelphia College of Pharmacy and Science  
D.O. - 1954 - Philadelphia College of Osteopathic Medicine  
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Robert C. Greer, IV  
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D.O. - 1977 - Philadelphia College of Osteopathic Medicine  
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Edye Elizabeth Groseclose  
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Professor of Biochemistry

Alan K. Gruskin  
B.S. - 1977 - Fairleigh Dickenson University  
D.O. - 1981 - New York College of Osteopathic Medicine  
Clinical Associate Professor of Family Medicine
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<tr>
<td>Douglas C. Gula</td>
<td>B.S.</td>
<td>1976</td>
<td>Ohio State University</td>
<td>Clinical Instructor in Surgery</td>
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<td>D.O.</td>
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<td>Ohio University College of Osteopathic Medicine</td>
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<tr>
<td>Duff L. Gula</td>
<td>B.A.</td>
<td>1963</td>
<td>DePauw University</td>
<td>Associate Professor of Orthopedic Surgery</td>
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<td>1968</td>
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<td>Robert L. Guler</td>
<td>B.A.</td>
<td>1970</td>
<td>Hunter College</td>
<td>Clinical Assistant Professor of Ophthalmology</td>
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<td>Neena Gupta</td>
<td>D.O.</td>
<td>1983</td>
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<td>Clinical Assistant Professor of Family Medicine</td>
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<td>Freddie Richard Guyer</td>
<td>B.S.</td>
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<td>Washington State University</td>
<td>Clinical Assistant Professor of Pediatrics</td>
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<td>Howard S. Hada</td>
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<td>Charles F. Halfpenney</td>
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**Clinical Instructor in Emergency Medicine**

**Professor Emeritus of Anatomy**

**Clinical Associate Professor of Pediatrics**

**Clinical Assistant Professor of Internal Medicine**

**Clinical Assistant Professor of Family Medicine**

**Professor Emeritus of Ophthalmology**

**Assistant Professor of Physical Therapy**

**Assistant Professor of Pharmacology**

**Clinical Instructor in Anesthesiology**

**Assistant Professor of Surgery**

**Clinical Associate Professor of Urology**

**Clinical Associate Professor of OB/GYN**

**Clinical Associate Professor of Family Medicine**

**Instructor in Optometry**
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<th>Name</th>
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<tr>
<td>James G. Hull</td>
<td>B.S. 1948 D.O. 1952</td>
<td>1948-1952</td>
<td>Stetson University, University of Health Sciences College of Osteopathic Medicine</td>
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<td>Robert N. Hutchinson</td>
<td>B.S. 1956 O.D. 1976</td>
<td>1956-1976</td>
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<td>Burton S. Hutman</td>
<td>M.D. 1960</td>
<td>1960</td>
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<td>Edward S. Jaffry</td>
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<td>James J. Gregory</td>
<td>D.O. 1988</td>
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<tr>
<td>Lester E. Janoff</td>
<td>O.D. 1953 M.S.Ed. 1975</td>
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<tr>
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<td>1988</td>
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<td>Audrey M. Johnson</td>
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<td>J.B. Joye</td>
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<td>Federico R. Justiniani</td>
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<td>Christine A. Kaminsky</td>
<td>Pharm.D. 1992</td>
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<td>Steven L. Kanner</td>
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<td>Stanley B. Kaye</td>
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<tr>
<td>Edward O. Keith</td>
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<td>Brian D. Kelly</td>
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<td>Maung Aung-Khin</td>
<td>Professor of Pathology</td>
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<tr>
<td>Robert M. Klein</td>
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<td>Gary Eleazor Kleinman</td>
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<td>Francis Komara</td>
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<td>B.A. 1973, D.O. 1977</td>
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<td>Prasad Kondapavuluru</td>
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<td>Barbara Kornblau</td>
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<td>O.T.R. 1977, J.D. 1984</td>
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<td>Stephen Krathen</td>
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<td>Barry M. Krein</td>
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<td>Richard Kreinest</td>
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<td>M.D. 1982</td>
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<td>D.O.</td>
<td>1962</td>
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**FACULTY MEMBERS**

John C. Lanning - Associate Professor of Anatomy
Joseph J. LaPeyra - Clinical Associate Professor of Psychiatry
Richard Laskody - Clinical Professor of Surgery
Albert La Torra - Clinical Associate Professor of Surgery
Francine Greco Latos - Clinical Instructor in Emergency Medicine
Michael Latterman - Clinical Associate Professor in Emergency Medicine
Harold E. Laubach - Professor of Microbiology
Peter Lemkin - Adjunct Assistant Professor of Optometry
Elise R. Leonard - Clinical Assistant Professor of Ophthalmology
Andrew S. Lepoff - Clinical Assistant Professor of Surgery
Jonathan B. Leslie - Associate Professor of Internal Medicine
Joel Levien - Assistant Professor of Internal Medicine
David B. Levine - Associate Professor of Family Medicine
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O.D. - 1961 - Pennsylvania State College of Optometry

Fellow, American Academy of Optometry
Fellow, College of Optometrists in Vision Development
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B.S. - 1969 - University of California, Davis
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Bradley A. Peltzer  
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<th>Degree</th>
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<tr>
<td>Hugo N. Perez</td>
<td>Clinical Assistant Professor of Pediatrics</td>
<td>M.D.</td>
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<tr>
<td>Manuel Perez-Espinosa</td>
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<td>Robert L. Perraud</td>
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<td>Harvey A. Pflanzer</td>
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<td>Jose Pineda</td>
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<td>David G. Pinosky</td>
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<td>Joel S. Policzer</td>
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<td>B.A.</td>
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<td>1976</td>
<td>University of Medicine and Dentistry of New Jersey</td>
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<td>Alan Posner</td>
<td>Associate Professor of Physiology</td>
<td>B.S.</td>
<td>1965</td>
<td>City College of New York</td>
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<td>Ph.D.</td>
<td>1981</td>
<td>New York University</td>
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<tr>
<td>Alvin C. Powell</td>
<td>Clinical Assistant Professor of Internal Medicine</td>
<td>B.A.</td>
<td>1978</td>
<td>Columbia University</td>
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<td></td>
<td></td>
<td>M.D.</td>
<td>1982</td>
<td>Tufts University School of Medicine</td>
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<tr>
<td>Diane L. Pugh</td>
<td>Clinical Assistant Professor of Family Medicine</td>
<td>B.S.</td>
<td>1986</td>
<td>University of Florida</td>
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<td></td>
<td>D.O.</td>
<td>1990</td>
<td>Southeastern University of the Health Sciences</td>
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<tr>
<td>Howard B. Purcell</td>
<td>Associate Professor of Optometry</td>
<td>B.S.</td>
<td>1978</td>
<td>New England College of Optometry</td>
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<td></td>
<td></td>
<td>O.D.</td>
<td>1982</td>
<td>New England College of Optometry</td>
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<td></td>
<td>Fellow, American Academy of Optometry</td>
<td></td>
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<tr>
<td>Bodo E. Pyko</td>
<td>Clinical Associate Professor of Radiology</td>
<td>B.S.</td>
<td>1963</td>
<td>Florida State University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D.O.</td>
<td>1967</td>
<td>Kirksville College of Osteopathic Medicine</td>
</tr>
<tr>
<td>Jose R. Quero</td>
<td>Clinical Assistant Professor of Internal Medicine</td>
<td>B.S.</td>
<td>1979</td>
<td>Loyola University of Chicago</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.D.</td>
<td>1984</td>
<td>Rush Medical College</td>
</tr>
<tr>
<td>Charles B. Radlauer</td>
<td>Visiting Professor of Surgery</td>
<td>M.D.</td>
<td>1961</td>
<td>George Washington University College of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fellow, American College of Surgeons</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
David L. Ragonesi  
B.A. - 1980 - Houghton College  
M.D. - 1984 - University of Rochester School of Medicine  

Elaine M. Rancatore  
B.A. - 1976 - Boston University  
M.S. - 1982 - Farleigh Dickinson University  
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Clinical Assistant Professor of Emergency Medicine

Clinical Instructor in Internal Medicine

Associate Professor of Surgery

Assistant Professor of Pharmaceutical Sciences

Clinical Assistant Professor of Internal Medicine

Clinical Assistant Professor of Family Medicine

Associate Professor of Occupational Therapy

Clinical Assistant Professor of Optometry

Assistant Professor of Family Medicine

Professor of Physical Therapy

Associate Professor of Pharmacy Practice

Clinical Assistant Professor of Emergency Medicine

Assistant Professor of Family Medicine

Clinical Assistant Professor of Surgery
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Degrees</th>
<th>Institutions</th>
</tr>
</thead>
</table>
| Donald W. Robertson         | Instructor in Emergency Medicine           | B.S. 1977 - Greensboro College  
                            |                             | P.A. 1979 - Bowman Gray School of Medicine  
                            |                             | D.O. 1987 - West Virginia School of Osteopathic Medicine |
| Christopher A. Rodowskas, Jr.| Professor of Pharmacy Administration      | B.S. 1980 - Barry University  
                            |                             | M.S. 1984 - Nova University |
| Johnathan W. Rose           | Assistant Professor of Community Medicine   | B.S. 1980 - Barry University  
                            |                             | M.S.H.A. 1984 - Nova University |
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                            |                             | D.O. 1975 - Philadelphia College of Osteopathic Medicine |
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                            |                             | D.D.S. 1946 - New York University College of Dentistry  
                            |                             | Fellow, American College of Dentists |
| Rhonda Rosengren            | Assistant Professor of Pharmaceutical Science | B.S. 1987 - Texas A&M University  
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<table>
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<tr>
<th>Name</th>
<th>Degree</th>
<th>Year</th>
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<tr>
<td>Roger Schwartzberg</td>
<td>B.A.</td>
<td>1970</td>
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<td>Juan J. Serra</td>
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<tr>
<td>Alvin J. Shapiro</td>
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<tr>
<td>Elton T. Shapiro</td>
<td>M.D.</td>
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<td>University of Witwatersrand Medical</td>
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<td>Tiffany B. Shapiro</td>
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<td>1990</td>
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<td>Daniel E. Shaw</td>
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</tr>
<tr>
<td>Phillip L. Shettle</td>
<td>B.S.</td>
<td>1962</td>
<td>Stetson University</td>
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<td></td>
<td>D.O.</td>
<td>1964</td>
<td>Kirksville College of Osteopathic</td>
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<tr>
<td>Hanubal S. Shivakumar</td>
<td>B.Sc.</td>
<td>1970</td>
<td>University of Bangalore</td>
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<td></td>
<td>M.B.B.S.</td>
<td>1979</td>
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<td>M.D.</td>
<td>1986</td>
<td>University of the West Indies</td>
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<td>Robert A. Shultz</td>
<td>B.A.</td>
<td>1977</td>
<td>St. Louis University</td>
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<tr>
<td>Mehar M. Siddiqui</td>
<td>M.D.</td>
<td>1969</td>
<td>Kingedward College</td>
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<td>William F. Siebert, Jr.</td>
<td>B.A.</td>
<td>1977</td>
<td>Bowdoin College</td>
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<td>College of Osteopathic Medicine</td>
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<tr>
<td>Geoffrey Siegel</td>
<td>D.O.</td>
<td>1972</td>
<td>University of Osteopathic Medicine</td>
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<td>Gilbert N. Silbiger</td>
<td>B.S.</td>
<td>1953</td>
<td>Western Reserve University</td>
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<td>M.D.</td>
<td>1957</td>
<td>Ohio State University College of</td>
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<tr>
<td>Bradley Silverman</td>
<td>B.S.</td>
<td>1980</td>
<td>University of Miami</td>
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<tr>
<td></td>
<td>D.O.</td>
<td>1985</td>
<td>Southeastern College of Osteopathic</td>
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</table>
Morton W. Silverman  
O.D. - 1950 - Illinois College of Optometry  
Fellow, American Academy of Optometry  
Professor of Optometry  
Stanley Silverman  
Special Projects Officer (ret.), Dade County Fire Department Emergency Medical Service  
Clinical Associate Professor of Family Medicine  
William M. Silverman  
B.S. - 1972 - Muhlenberg College  
D.O. - 1977 - Philadelphia College of Osteopathic Medicine  
Clinical Associate Professor of OB / GYN  
Steven M. Silvers  
D.O. - 1984 - University of the Health Sciences, College of Osteopathic Medicine  
Clinical Assistant Professor of OB / GYN  
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B.S. - 1977 - Rutgers University  
D.O. - 1984 - Philadelphia College of Osteopathic Medicine  
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Stanley Simpson  
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D.O. - 1974 - Philadelphia College of Osteopathic Medicine  
Assistant Professor of Family Medicine  
Glenn R. Singer  
B.S. - 1974 - Tulane University  
M.D. - 1978 - University of South Florida  
Clinical Assistant Professor of Internal Medicine  
Jerry H. Singer  
B.A. - 1976 - Columbia College  
M.D. - 1980 - New York University College of Medicine  
Clinical Instructor in Surgery  
Hari P. Singh  
B.A. - 1981 - Emory University  
M.D. - 1985 - Baylor College of Medicine  
Clinical Assistant Professor of OB / GYN  
Thomas A. Sipprell  
B.S. - 1971 - Bethany College  
D.O. - 1976 - Kirksville College of Osteopathic Medicine  
Clinical Assistant Professor of Dermatology  
Stanley E. Skopit  
B.S. - 1967 - University of Miami  
M.S. - 1972 - Drake University  
D.O. - 1977 - University of Osteopathic Medicine and Health Sciences  
Clinical Assistant Professor of Internal Medicine  
Timothy B. Skovrinski  
B.S. - 1985 - Middlebury College  
M.D. - 1990 - New York Medical College  
Clinical Assistant Professor of OB / GYN  
B.B. Slaughter  
D.O. - 1951 - Kirksville College of Osteopathic Medicine  
Clinical Associate Professor of Family Medicine  
Scott W. Smith  
B.A. - 1981 - Florida Atlantic University  
D.O. - 1985 - Southeastern College of Osteopathic Medicine  
Clinical Assistant Professor of Internal Medicine  
Matthew Smith  
B.S. - 1979 - Dickinson College  
D.O. - 1983 - New England College of Osteopathic Medicine  
Clinical Instructor in Internal Medicine  
Morton T. Smith  
B.S. - 1956 - Franklin & Marshall College  
D.O. - 1960 - Philadelphia College of Osteopathic Medicine  
Clinical Instructor in Emergency Medicine  
Randy Snodgress  
B.A. - 1973 - Berkley College  
D.O. - 1981 - West Virginia School of Osteopathic Medicine  
Clinical Instructor in Emergency Medicine  
Arthur Snyder  
D.O. - 1944 - Philadelphia College of Osteopathic Medicine  
Professor of Osteopathic Manipulative Medicine
<table>
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<tr>
<th>Name</th>
<th>Degrees</th>
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<tr>
<td>Robert L. Sonn</td>
<td>B.S. 1956 - D.O. 1960 - M.D. 1962</td>
<td>University of Miami - University of the Health Sciences - California College of Medicine</td>
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<tr>
<td>Joseph Spillane</td>
<td>Pharm.D. 1988 - University of Florida</td>
<td>Assistant Professor of Pharmacy Practice</td>
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<td></td>
<td></td>
<td>Fellow, American Academy of Optometry</td>
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<tr>
<td>Dennis M. Spiller</td>
<td>B.A. 1964 - D.O. 1974</td>
<td>University of Delaware - Philadelphia College of Osteopathic Medicine</td>
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<td>Carl Spirozza</td>
<td>B.S. 1980 - D.O. 1984</td>
<td>Widener University - Philadelphia College of Osteopathic Medicine</td>
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<td>Daniel Lewis Spitz</td>
<td>B.S. 1974 - M.D. 1980</td>
<td>Brooklyn College - Medical University of South Carolina</td>
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<tr>
<td>Fred Srebnick</td>
<td>B.S. 1952 - D.O. 1965</td>
<td>Brooklyn College of Pharmacy - Kansas City College of Osteopathic Medicine</td>
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<tr>
<td>B.L. Stalnaker</td>
<td>B.A. 1956 - M.D. 1960</td>
<td>University of Florida - University of Florida</td>
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<td></td>
<td>Fellow, American College of Obstetricians and Gynecologists</td>
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<td>Joseph M. Stasio</td>
<td>D.O. 1991</td>
<td>Southeastern University of the Health Sciences</td>
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<td>Pamela T. Stearns</td>
<td>B.S. 1981 - M.D. 1985</td>
<td>University of Florida - University of Florida</td>
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<td>Kimberly R. Stein</td>
<td>B.S. 1985 - D.O. 1989</td>
<td>Pennsylvania State University - Southeastern College of Osteopathic Medicine</td>
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<tr>
<td>Michael J. Stein</td>
<td>B.S.,B.A. 1977 - M.D. 1981</td>
<td>St. Johns University - Universidad de Noreste</td>
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<td></td>
<td></td>
<td>Fellow, American College of Osteopathic Surgeons</td>
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<tr>
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<td>Joseph G. Stella</td>
<td>B.S.Pt. 1974, M.S.M. 1977</td>
<td>SUNY at Buffalo</td>
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<tr>
<td>Debra Feingold Stern</td>
<td>B.S.P.T. 1974, M.S.M. 1977</td>
<td>S.U.N.Y. at Buffalo</td>
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<td>Stuart Strikowski</td>
<td>B.A. 1973, D.O. 1977</td>
<td>Pennsylvania State University</td>
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<tr>
<td>Richard J. Susi</td>
<td>D.O. 1981</td>
<td>University of Osteopathic Medicine and Health Sciences</td>
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<tr>
<td>Hal Sussman</td>
<td>B.S. 1976, D.O. 1981</td>
<td>State University of New York of Cortland</td>
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<tr>
<td>B. Boyce Swartz</td>
<td>B.S. 1941, D.O. 1944</td>
<td>University of Pittsburgh</td>
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<tr>
<td>Scott A. Swigart</td>
<td>B.S. 1979, Pharm.D. 1982</td>
<td>Wayne State University</td>
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<td>Leon Talan</td>
<td>M.D. 1969</td>
<td>University of Mainz, School of Medicine</td>
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<tr>
<td>P. Stephen Taraskevich</td>
<td>B.A. 1967, M.A. 1969, Ph.D. 1973</td>
<td>University of California, Los Angeles</td>
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<tr>
<td>James H. Taylor</td>
<td>B.S. 1972, D.O. 1973</td>
<td>Dickinson College</td>
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<tr>
<td>Stanley Tenenbaum</td>
<td>B.A. 1975, M.D. 1979</td>
<td>City University of New York</td>
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<tr>
<td>Donald H. Teplitz</td>
<td>D.O. 1985</td>
<td>Southeastern College of Osteopathic Medicine</td>
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<tr>
<td>Leon Termin</td>
<td>B.S. 1959, M.D. 1963</td>
<td>University of Miami, School of Medicine</td>
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<tr>
<td>Matthew A. Terry</td>
<td>B.S. 1971, D.O. 1975</td>
<td>University of Florida, Michigan State University College of Osteopathic Medicine</td>
</tr>
<tr>
<td>Morton Terry</td>
<td>B.A. 1942, D.O. 1945, M.Sc. 1950</td>
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<tr>
<td>Tamara S. Terry</td>
<td>B.A. 1982, M.B.A. 1986</td>
<td>Trinity College, Marymount College of Virginia</td>
</tr>
<tr>
<td>Marc Tescher</td>
<td>B.A. 1988, O.D. 1992</td>
<td>Florida International University, University of Houston</td>
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</table>
Herbert M. Todd  
B.A. - 1962  - University of Toledo  
M.D. - 1966  - University of Miami School of Medicine

Ronald B. Tolchin  
B.S.G. - 1983  - Villanova University  
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A.B. - 1959 - Oberlin College  
Ph.D. - 1969 - University of Rochester  
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B.S. - 1987 - Pennsylvania College of Optometry  
O.D. - 1990 - Pennsylvania College of Optometry  
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B.S. - 1983 - Emory University  
D.O. - 1989 - Southeastern University of the Health Sciences  
Clinical Assistant Professor of Neurology  

Charles Yamokoski  
B.A. - 1974 - Case-Western Reserve University  
D.O. - 1979 - Kirksville College of Osteopathic Medicine  
Clinical Assistant Professor of Radiology  

Joseph R. Yates  
B.S. - 1977 - University of Louisville  
M.D. - 1980 - University of Louisville  
Clinical Assistant Professor of Emergency Medicine
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<th>Name</th>
<th>Position</th>
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<th>Education 2</th>
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<tr>
<td>Brian Zalis</td>
<td>Clinical Instructor in Family Medicine</td>
<td>M.D. 1976 University of Florida Medical School</td>
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<tr>
<td>Sheldon Zane</td>
<td>Associate Professor of Internal Medicine</td>
<td>M.D. 1959 University of Miami School of Medicine</td>
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<tr>
<td>Ronald Ziegler</td>
<td>Clinical Assistant Professor of Pathology</td>
<td>D.O. 1960 Kirksville College of Osteopathic Medicine</td>
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<td>Steven B. Zucker</td>
<td>Professor of Community Medicine</td>
<td>B.A. 1969 University of Pennsylvania</td>
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<td>D.M.D. 1973 University of Connecticut</td>
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<td>M.Ed. 1973 University of Hartford</td>
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DIRECTIONS:

From the Fort Lauderdale-Hollywood International Airport, take Interstate 95 South to the Miami Gardens Drive exit. Turn left (east) on Miami Gardens Drive. Continue east to N.E. 19th Avenue. Turn right (south) on N.E. 19th Avenue. Continue south to N.E. 167th Street. Turn left (west) to the campus complex.

From the Miami International Airport, take Interstate 95 North to State Route 826 East (N.E. 167th Street). Continue East on State Route 826 (N.E. 167th Street) which curves south and becomes N.E. 163rd Street. Continue East to N.E. 19th Avenue. Turn left (north) on N.E. 19th Avenue. Continue north over the canal bridge and turn left (west) at N.E. 167th Street.

Note: Only major arteries are depicted and distances are compressed.