


1997

# Health Professions Division Catalog 1997-1998

Nova Southeastern University

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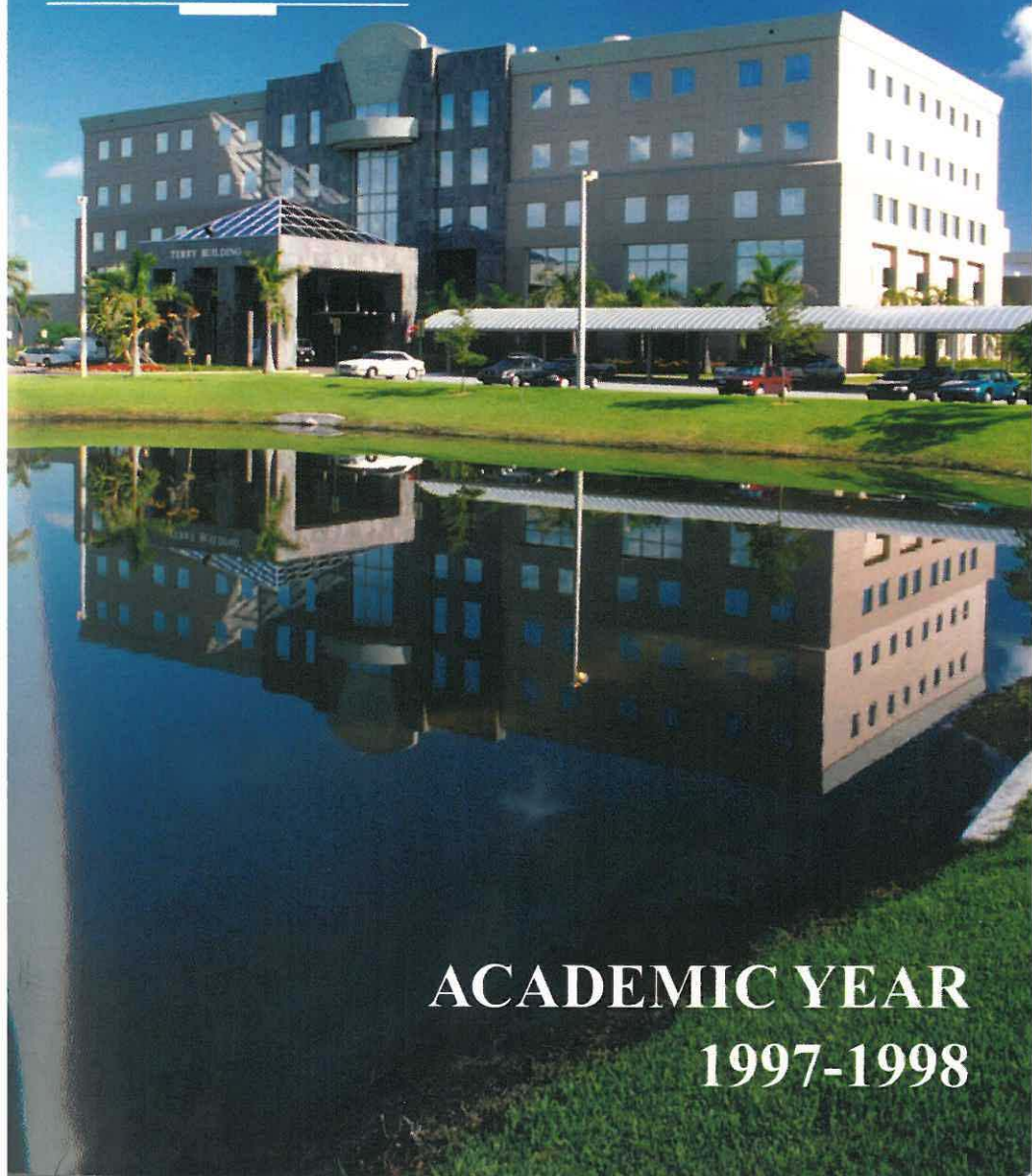
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# Health Professions Division

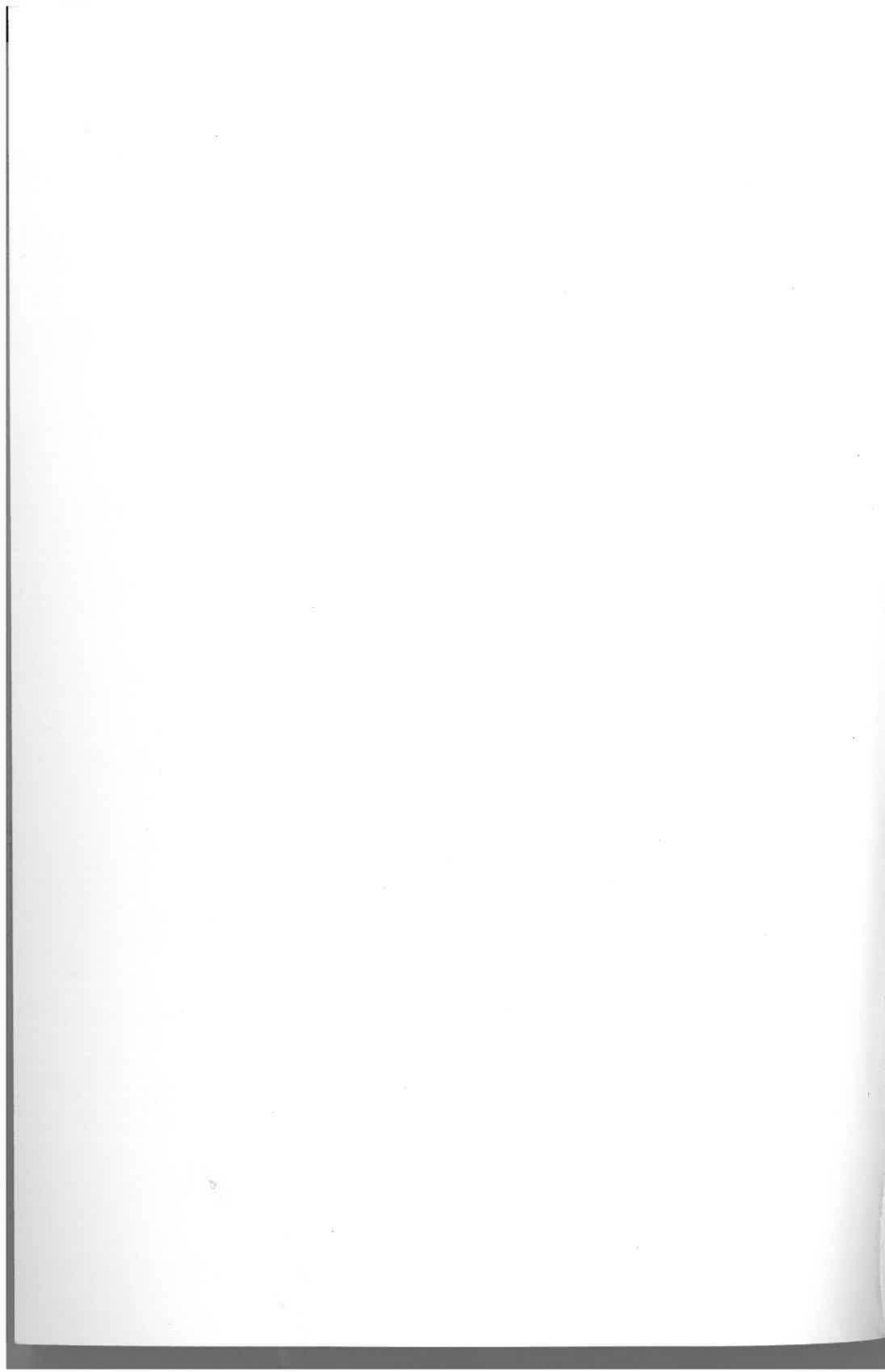
# CATALOG

NOVA  
SOUTHEASTERN  
UNIVERSITY



ACADEMIC YEAR  
1997-1998





**NOVA**  
**SOUTHEASTERN**  
**U N I V E R S I T Y**

**HEALTH PROFESSIONS DIVISION**

## **Mission Statement**

### **Nova Southeastern University**

Nova Southeastern University is a dynamic, not-for-profit independent institution dedicated to providing high quality educational programs of distinction from pre-school to the professional and doctoral levels, as well as service to the community. Nova Southeastern University prepares students for lifelong learning and leadership roles in business and the professions. It offers academic programs at times convenient to students, employing innovative delivery systems and rich learning resources on campus and at distant sites. The University fosters inquiry, research, and creative professional activity, by uniting faculty and students in acquiring and applying knowledge in clinical, community, and professional settings.

*Approved by the Board of Trustees, March 24, 1997.*

## **Mission Statement**

### **Health Professions Division**

The mission of Nova Southeastern University Health Professions Division is to train primary care health practitioners in a multidisciplinary setting, with an emphasis on medically underserved areas.

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

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

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



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

### POLICY OF NON-DISCRIMINATION

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

This brochure is for information purposes only and does not represent a contract. Information contained herein is subject to change at any time by administrative decision or the direction of the Board of Trustees.

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



**COLLEGE OF OSTEOPATHIC MEDICINE**  
**COLLEGE OF PHARMACY**  
**COLLEGE OF OPTOMETRY**  
**COLLEGE OF ALLIED HEALTH**  
**COLLEGE OF MEDICAL SCIENCES**  
**COLLEGE OF DENTAL MEDICINE**

**3200 S. University Drive • Fort Lauderdale, FL 33328**  
**(954) 262-1100**

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Ovid Lewis, J.S.D.  
President

## Letter From The President

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

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

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

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

Ovid Lewis, J.S.D.  
President

Morton Terry, D.O.  
Chancellor



## Letter From The Chancellor

If you wish to be a leader in your chosen profession, the Health Professions Division of Nova Southeastern University can help you reach your potential.

It is no longer enough to master your chosen profession; you must now be able to work effectively in the multidisciplinary arena; patient care is increasingly delivered by a health care team, a model that requires professionals to integrate across the various disciplines.

Just as the human body is more than the sum of its component parts, the Health Professions Division was conceived as a network of colleges working in concert to train students not only to deliver the highest level of patient care, but also to interact knowledgeably with other disciplines, with an understanding of the challenges and needs specific to each field.

We have structured each College's curriculum to maximize the educational benefits derived from this approach. Because of this comprehensive preparation, our students are greatly in demand and receive numerous job offers or postgraduate training opportunities upon graduation.

In less than two decades, Nova Southeastern University's Health Professions Division has developed into an academic center of international stature, and with our new state-of-the-art facilities, we have redoubled our commitment to enhancing student learning and fostering interdisciplinary education and research. Together, as a team, we will prepare you for an exciting career in today's dynamic health care arena.

Morton Terry, D.O.  
Chancellor





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**1997-1998 ACADEMIC CALENDAR**

|                              |                                    |
|------------------------------|------------------------------------|
| Sunday, August 10, 1997      | Fall Orientation and Registration  |
| Monday, August 11, 1997      | Freshman Classes Begin             |
| Monday, September 1, 1997    | LABOR DAY- No classes              |
| Thursday, October 2, 1997    | ROSH HASHANAH- No classes          |
| Wednesday, November 26, 1997 | THANKSGIVING RECESS begins 5 P.M.  |
| Monday, December 1, 1997     | Classes resume                     |
| Friday, December 19, 1997    | Winter Recess Begins 5:00 PM       |
| Monday, January 5, 1998      | Classes resume                     |
| Monday, January 19, 1998     | MARTIN LUTHER KING DAY- No classes |
| Friday, April 3, 1998        | SPRING RECESS Begins 5:00 PM       |
| Monday, April 13, 1998       | Classes Resume                     |
| Thursday, May 21, 1998       | Senior Day/Graduation Rehearsal*   |
| Saturday, May 23, 1998       | Senior Awards Dinners*             |
| Sunday, May 24, 1998         | Graduation*                        |
| Monday, May 25, 1998         | MEMORIAL DAY- No Classes           |

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

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



## University History

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

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

While Nova continued to expand its educational reach, Southeastern University of the Health Sciences also was on an expansion course. Southeastern was created by osteopathic physicians committed to establishing a college of osteopathic medicine in the Southeast. As a result, Southeastern College of Osteopathic Medicine, as it was first known, opened in 1981.

During a ten year span that followed (1987-1997), Southeastern added Colleges of Pharmacy, Optometry, Allied Health, Medical Sciences, and the College of Dental Medicine which admitted 88 students in 1997. This growth was unprecedented, but not unsurpassed. There was still more to come.

The merger brought on new possibilities. Prior to 1994, Nova had evolved with innovative technology and Southeastern expanded to provide much needed health care education. With the merger, Nova Southeastern University's resources make possible a more transdisciplinary

education. Students have an opportunity to integrate across the disciplines and understand how their professions relate to society as a whole.

## Campus

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

The University's main campus is located on a lush 232-acre site in Fort Lauderdale, 10 miles inland of the Atlantic Ocean and readily accessible via several highways and Florida's Turnpike.

The Health Professions Division complex, dedicated in June, 1996, is located on 21 acres and encompasses over 900,000 square feet of buildings. The Division comprises the Colleges of Osteopathic Medicine, Pharmacy, Optometry, Allied Health, Medical Sciences, and Dental Medicine.

The Division elicited input from students and faculty and incorporated innovations in architecture, ergonomics, and computer-aided technology to provide facilities that enhance the learning experience.

The complex is an arrangement of seven buildings, four of which are connected by air conditioned lobbies. The Health Center, Physical Plant and 1600-space garage are connected to the central buildings by covered walkways. Administration and faculty offices are on the upper levels of the five-story Administration Building, with the Department of Admissions and Student Affairs and a cafeteria located on the first floor.

Behind the Administration Building is the Assembly Building, which consists of a 500-seat auditorium, a 250-seat auditorium, and eight 126-seat amphitheatre-classrooms, all

equipped with computerized audio/video systems.

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

Also on the first floor are patient simulation training rooms and a 50-station computer laboratory for student use. The second and third floors house laboratories, a student lounge, and a research area. Laboratories are equipped for viewing pre-taped medical procedures, and each large laboratory has a video system and hookups to equipment such as an electron microscope, so that illustrations can be amplified for laboratory-wide viewing.

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

The College of Dental Medicine's new 70,500-square-foot building advances the state-of-the-art in dental education facilities. The first floor contains a 100-operator predoctoral clinic facility, and clinics and support laboratories for Oral Medicine, Radiology and Oral Surgery. The second floor houses a faculty practice and clinics for post-graduate programs in Endodontics, Orthodontics, Pediatric Dentistry, and Periodontics, a 100-position simulation technique laboratory and support laboratories. Faculty offices and an auditorium are on the third floor.

### Foreign Course Work

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

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

**Josef Silney & Associates, Inc.**  
International Education Consultants  
P.O. Box 248233  
Coral Gables, FL 33124  
(305) 666-0233  
or  
**Educational Credential Evaluators, Inc.**  
P.O. Box 92970  
Milwaukee, WI 53202-00970  
(414) 289-3400

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

### Tuition Refund Policy - Voluntary Withdrawals

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

|                                  |     |
|----------------------------------|-----|
| First three (3) class days       | 70% |
| Fourth or fifth class day        | 60% |
| Sixth or seventh class day       | 40% |
| Eighth, ninth or tenth class day | 20% |
| After the tenth class day        | 0%  |

### NO REFUNDS WILL BE MADE THEREAFTER.

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

The regulation requires that if the student has received a financial aid overage to assist

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

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

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

### Florida Residency

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

### Financial Aid

The purpose of the Student Financial Aid Program at the Health Professions Division is to help as many qualified students as possible to complete their education. Various loans, scholarships, and grants are available to qualified students to help ease the high cost of a health professions education. These financial assistance programs are described in a separate University publication: *Financial Planning for your Health Professions Education*.

### Physical Examination

Every incoming 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 each student's physician are sent to each new student during the summer prior to the start of classes.

### Student Housing

Nova Southeastern University offers on-campus housing. Numerous apartments, condominiums, and other rental housing facilities are located near the Ft. Lauderdale campus. Information concerning housing may be obtained from the Office of Residential Life at 3301 College Avenue, Ft. Lauderdale, FL 33314, (954) 262-7052.

### Health Insurance

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

### Miscellaneous

#### Service Units

#### Health Centers

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

**NSU Health Center at Fort Lauderdale**, 1111 West Broward Blvd., Ft. Lauderdale, Florida. Contained within

this full-service primary care facility is Family Medicine; the Optometric Clinic and Optical Dispensary; Physical Medicine and Rehabilitation; Occupational Therapy; a full-service Pharmacy; and a newly completed Women and Children's Center, delivering gynecological, obstetric, and pediatric services. (25,200 sq. ft. within three buildings)

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

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

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

## **Core Performance Standards for Admission and Progress**

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

Regarding disabled individuals, the University will not discriminate against such individuals who are otherwise qualified but will expect applicants and students to meet certain minimal technical standards (core

performance standards) as set forth herein with or without reasonable accommodation. In adopting these standards, the University believes it must keep in mind the ultimate safety of the patients whom its graduates will eventually care for. The standards reflect what the University believes are reasonable expectations of health care students and personnel in performing common functions.

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

Candidates for degrees offered by the Health Professions Division must have, with or without reasonable accommodation, multiple abilities and skills including: intellectual, conceptual, integrative, and quantitative abilities; interpersonal communication; mobility and strength; motor skills; hearing, visual, tactile, behavioral and social attributes. Candidates for admission and progression must be able to perform these abilities and skills in a reasonably independent manner.

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

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

### **Interpersonal**

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

### **Motor Skills**

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

### **Strength and Mobility**

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

### **Hearing**

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

### **Visual**

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

**Tactile**

Candidates and students must have sufficient tactile ability for physical assessment. They must be able to perform palpation, functions of physical examination and/or those related to therapeutic intervention. Pharmacy students must be able to measure and compound, sometimes transferring from container to container and to carry out sterile procedures. Dental students must be able to deliver appropriate treatment utilizing high technology equipment such as dental drills and surgical instruments.

**Behavioral and Social Attributes**

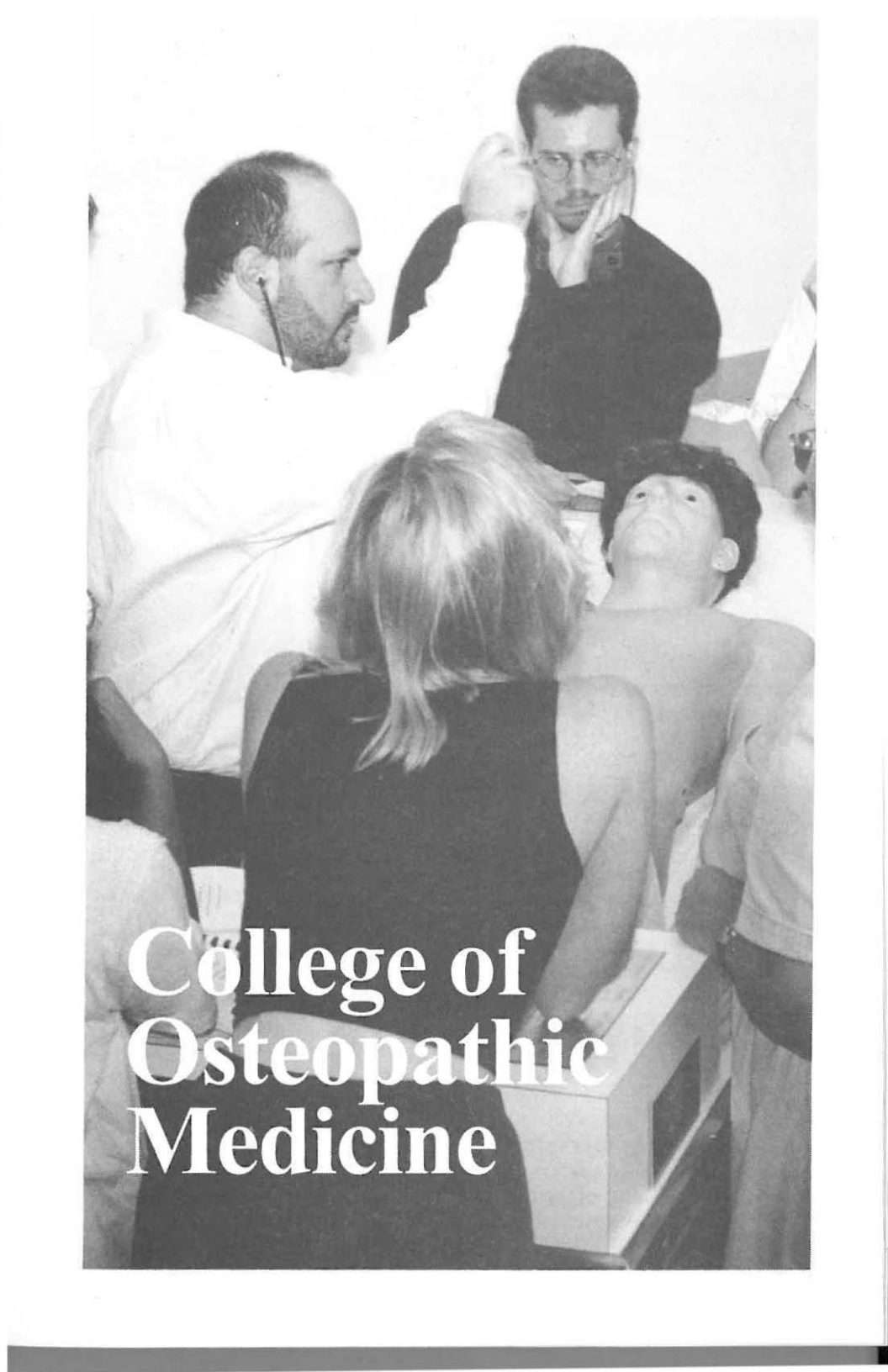
Candidates and students must possess

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









**College of  
Osteopathic  
Medicine**







**Matthew A. Terry,  
D.O., M.A., F.A.C.O.F.P.  
Dean**

### **Administration**

Matthew A. Terry, D.O., M.A., F.A.C.O.F.P., Dean

Tamara S. Terry, M.B.A., Executive Director for Administration

Cyril Blavo, D.O., M.S., M.P.H. & T.M., F.A.C.O.P., Associate Dean  
for Academic Affairs

Howard Neer, D.O., F.A.C.O.F.P., Associate Dean for Alumni Affairs

Morton T. Smith, D.O., Associate Dean for Osteopathic Student Affairs

Steven Zucker, D.M.D., M.Ed., Associate Dean for Community Affairs

### **An Osteopathic Physician**

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

Osteopathic medicine is distinguished by an emphasis on primary care, by utilizing osteopathic manipulative medicine when necessary, and by a tradition of caring for patients in underserved rural and urban areas.

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

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

We are proud of our success in produc-

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

### **Accreditation**

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

### **Requirements for Admission**

Applicants for the first-year class must meet the following requirements prior to matriculation:

1. A bachelor's degree from a regionally accredited college or university.
2. Completion, with a grade of 2.0 or better on a four-point scale, of:
  - A. Eight semester hours of each of the following courses:
    - General biology, including laboratory
    - Organic chemistry, including laboratory
    - General chemistry, including laboratory
    - Physics, including laboratory
  - B. Three semester hours of each of the following courses:
    - English literature
    - English composition

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

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

3. All applicants are required to take the Medical College Admission Test (MCAT). Applications for the MCAT may be obtained from your college's pre-professional advisor's office, or by writing directly to Medical College Admission Test, P.O. Box 4056 Iowa City, IA 52243-4056.

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

The College receives over 3,500 applications a year, from which only 150 students are chosen. These students have varied backgrounds, and while many enter

the College directly from an undergraduate program, other students come from successful careers. Entering students have included pharmacists, physician assistants, nurses, teachers, pilots and engineers.

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

## Application Procedure

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

AACOMAS application packets may be obtained from Nova Southeastern University College of Osteopathic Medicine in person or directly from AACOMAS, 5550 Friendship Blvd., Suite 310, Chevy Chase, MD 20815-7231, (301)968-4190.

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

1. The applicants should mail the following to AACOMAS by January 15:
  - AACOMAS application
  - An official transcript from the Registrar of each college or university attended, mailed directly to AACOMAS by the college or university.
  - MCAT scores
2. The applicant should mail the following to the College by March 30:
  - A supplemental application sent to the applicant by the College on receipt of the AACOMAS application.
  - A non-refundable application fee of \$50
  - A letter of evaluation from the pre-professional committee, or, if

such a committee does not exist, then three letters of evaluation: two from science professors, and one from a liberal arts professor.

- A letter of evaluation from an osteopathic physician.

A personal interview is a part of the admission process; however, being interviewed is not a guarantee of admission. Not all applicants will be granted an interview. Those selected for an interview will be notified of the date and time of such interview by the Office of Admissions.

Notice of acceptance or other action by the Committee on Admissions will be on a rolling or periodic schedule; therefore, early completion of the application is in the best interest of the student because of the limited number of spaces available in each class.

## Tuition and Fees

1. Anticipated tuition for 1998-99 (subject to change by the Board of Trustees without notice): \$19,425 for Florida residents and \$22,837 for out-of-state students. A student activities fee of \$100 each year is required of all students. Eligible students must request in-state tuition on application. For tuition purposes, a student's Florida residency status (in-state or out-of-state) will be determined at initial admission and will remain the same throughout the entire enrollment of the student at NSU. Accordingly, tuition will not be adjusted as a result of any change in residency status after initial enrollment registration.
2. Acceptance Fee: \$250. This fee is required to reserve the accepted applicant's place in the entering first year class. This advance payment will be deducted from the tuition payment due on Registration Day, but is not refundable in case of a withdrawal. It is payable within two weeks of an applicant's acceptance.
3. Deposit: \$750, due March 15, under the

same terms as the Acceptance Fee.

4. Pre-registration Fee: \$1000, due May 15, under the same terms as the Acceptance Fee.
5. Student Activities Fee: \$100, payable at each fall registration.

The first semester's tuition and fees, less the \$2,000 previously paid, are due on or before Registration Day. Tuition for each subsequent semester is due on or before the appropriate Registration Day. Students will not be admitted until their financial obligations have been met.

The financial ability of applicants to complete their training at the College is important because of the limited number of positions available in each class. Applicants should have specific plans for financing four years of medical education, including tuition, living expenses, books, equipment, rotation travel, and miscellaneous expenses.

## Schedule of Application for Admission Cycle

### JUNE

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

### JULY

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

### OCTOBER

Personal interviews start.

### JANUARY 15

Deadline for applications to AACOMAS.

**FEBRUARY 1**

Deadline for supplemental applications.

**Financial Aid**

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

**Transfer of Credit**

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

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

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

- Make a formal application to Nova Southeastern University College of Osteopathic Medicine Office of Admissions
- Meet all admissions requirements to Nova Southeastern University College of Osteopathic Medicine, which include submitting official transcripts of all college work (including osteopathic transcripts), MCAT scores, National Board scores, if taken, and letters of evaluation. No applicant will be accepted without an interview.
- Be in good standing at the transferring institution, as documented by a letter from the Dean of the transferring institution
- Supply a letter of recommendation from a faculty member of the transferring osteopathic institution
- Supply a written statement outlining reasons for request for transfer

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

**Dismissal**

A student may be dismissed from the College of Osteopathic Medicine if:

1. He or she fails four or more classroom courses of two or more credit hours each during any one academic year. In this situation, reexamination will not be allowed
2. He or she fails a repeated course
3. He or she fails more than one month of clinical rotations or fails a clinical rotation he or she is repeating
4. He or she exceeds a six-year limit for completing all graduation require-

ments, exclusive of any approved leave of absence or withdrawal in good standing

5. In the opinion of the Dean, circumstances of a legal, moral, behavioral, ethical, or academic nature warrant such action, or if, in the Dean's opinion, there are factors that would interfere with or prevent him or her from practicing the highest quality of osteopathic medicine

#### **Re-admission Following Dismissal**

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

If re-admitted, the student's prior academic record will remain part of his/her overall academic record and will be recorded on the permanent transcript, but none of the prior grades for the courses being re-taken will be calculated in the new grade point average.

#### **Suspension**

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

#### **Re-admission Following Suspension**

If a student is suspended from the College of Osteopathic Medicine, he or

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

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

#### **Requirements for Graduation**

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

1. Have exhibited the moral, ethical, professional, behavioral, and personal characteristics necessary for the practice of osteopathic medicine
2. Have satisfactorily completed the program of study required for the degree, with a minimum of 275 semester hours of course work, with a minimum GPA of 70%
3. Have satisfactorily met all financial and library obligations
4. Have taken Levels I and II of the College of Medicine Licensing Examination (COMLEX)
5. Participate, in person, in the rehearsal

and commencement program at which time the degree is conferred

## Course of Study

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

Our innovative curriculum is designed to fulfill our mission of training primary care physicians. The design of the curriculum is based on successful academic models, carefully developed and integrated. It emphasizes interdisciplinary collaboration, guiding students to develop a wholistic, and more importantly, osteopathic approach to medicine. We continually correlate basic scien-

tific information with fundamental clinical application. Students are exposed to clinical settings in their first semester, which gives them the opportunity to prepare for the "real world" of medicine.

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

Physicians do not work in a vacuum, but in a health care team, and the University promotes interdisciplinary cooperation whenever possible. Our students share faculty and campus facilities with the University's pharmacy, dental, optometry, physician assistant, physical therapy, occupational therapy, and public health students.





## CURRICULUM OUTLINE

*First Year*

| <b>First Semester</b> |      |                         | <b>Lecture</b> | <b>Laboratory</b> | <b>Credit Hours</b> |
|-----------------------|------|-------------------------|----------------|-------------------|---------------------|
| ANA                   | 5114 | Medical Histology       | 4              |                   | 4                   |
| ANA                   | 5217 | Gross Anatomy           | 6              | 2                 | 7                   |
| BCH                   | 5116 | Medical Biochemistry    | 6              |                   | 6                   |
| FME                   | 5105 | Basic Life Support      |                | 0.5               | 0.5                 |
| FMO                   | 5113 | OMM I                   | 1              | 2                 | 3                   |
| IDC                   | 5105 | Medical Informatics     |                | 0.5               | 0.5                 |
| IDC                   | 5112 | Clinical Practicum I    | 1              | 2                 | 2                   |
| IDC                   | 5212 | IGC Preceptorship I     |                | 2                 | 2                   |
| IDC                   | 5405 | Library Skills Workshop |                | 0.5               | 0.5                 |
| IDC                   | 5711 | Clinical Correlation I  | 0              | 1                 | 1                   |
| <b>Total Hours</b>    |      |                         | <b>18</b>      | <b>10.5</b>       | <b>26.5</b>         |

| <b>Second Semester</b> |      |                                | <b>Lecture</b> | <b>Laboratory</b> | <b>Credit Hours</b> |
|------------------------|------|--------------------------------|----------------|-------------------|---------------------|
| ANA                    | 5423 | Neuroanatomy                   | 2              | 1                 | 3                   |
| BMH                    | 5105 | Medical Ethics                 | 0.5            |                   | 0.5                 |
| FMC                    | 5221 | Medical Epidemiology           | 1              |                   | 1                   |
| FMO                    | 5223 | OMM II                         | 1              | 2                 | 3                   |
| IDC                    | 5205 | Substance Abuse<br>& Addiction | 0.5            |                   | 0.5                 |
| IDC                    | 5305 | Violence & Abuse               | 0.5            |                   | 0.5                 |
| IDC                    | 5422 | IGC Preceptorship II           |                | 2                 | 2                   |
| IDC                    | 5505 | Ethnocultural Medicine         | 0.5            |                   | 0.5                 |
| IDC                    | 5522 | Clinical Practicum II          |                | 4                 | 2                   |
| IDC                    | 5821 | Clinical Correlation II        | 1              |                   | 1                   |
| MIC                    | 5126 | Medical Microbiology           | 6              |                   | 6                   |
| PHS                    | 5126 | Medical Physiology             | 6              | 0                 | 6                   |
| <b>Total Hours</b>     |      |                                | <b>19</b>      | <b>9</b>          | <b>26</b>           |

*Second Year*

| <b>First Semester</b> |      |   | <b>Lecture</b> | <b>Laboratory</b> | <b>Credit Hours</b> |
|-----------------------|------|---|----------------|-------------------|---------------------|
| BMP                   | 6112 | Psychiatry                                  | 2              |                   | 2                   |
| FMO                   | 6113 | OMM III                                     | 1              | 2                 | 3                   |
| IDC                   | 6012 | Clinical Correlation III                    |                | 2                 | 2                   |
| IDC                   | 6113 | Hematopoietic and<br>Lymphoreticular System | 3              |                   | 3                   |
| IDC                   | 6215 | Cardiovascular System                       | 5              |                   | 5                   |
| IDC                   | 6314 | Respiratory System                          | 4              |                   | 4                   |
| IDC                   | 6412 | Endocrine System                            | 2              |                   | 2                   |
| IDC                   | 6514 | IGC Preceptorship III                       |                | 4                 | 4                   |
| IDC                   | 6612 | Integumentary System                        | 2              |                   | 2                   |
| IDC                   | 6705 | Alternative Medicine                        | 0.5            |                   | 0.5                 |
| IDC                   | 6813 | Renal/Urinary System                        | 3              |                   | 3                   |
| IDC                   | 6911 | Clinical Procedures I                       |                | 1                 | 1                   |
| IDC                   | 6913 | Clinical Practicum III                      |                | 3                 | 3                   |
| PCO                   | 6112 | Principles of Pharmacology                  | 2              |                   | 2                   |
| PTH                   | 6112 | Principles of Pathology                     | 2              | 0                 | 2                   |
| <b>Total Hours</b>    |      |   | <b>26.5</b>    | <b>12</b>         | <b>38.5</b>         |

| <b>Second Semester</b> |      |                                  | <b>Lecture</b> | <b>Laboratory</b> | <b>Credit Hours</b> |
|------------------------|------|----------------------------------|----------------|-------------------|---------------------|
| FME                    | 6221 | Advanced Cardiac<br>Life Support |                | 1                 | 1                   |
| FMG                    | 6105 | Geriatrics                       | 0.5            |                   | 0.5                 |
| FMN                    | 6421 | Medical Jurisprudence            | 1              |                   | 1                   |
| FMO                    | 6423 | OMM IV                           | 1              | 2                 | 3                   |
| FMR                    | 6205 | Rural Medicine                   | 0.5            |                   | 0.5                 |
| IDC                    | 6005 | HIV Seminar                      | 0.5            |                   | 0.5                 |
| IDC                    | 6122 | Clinical Correlation IV          |                | 2                 | 2                   |
| IDC                    | 6221 | Clinical Procedures II           |                | 1                 | 1                   |
| IDC                    | 6223 | Reproductive System              | 3              |                   | 3                   |
| IDC                    | 6324 | Nervous System                   | 4              |                   | 4                   |
| IDC                    | 6423 | Musculoskeletal System           | 3              |                   | 3                   |
| IDC                    | 6524 | Gastrointestinal System          | 4              |                   | 4                   |
| IDC                    | 6623 | Clinical Practicum IV            |                | 3                 | 3                   |
| IDC                    | 6624 | IGC Preceptorship IV             |                | 4                 | 4                   |
| IDC                    | 6905 | Pre-Clerkship Seminar            | 0.5            | 0                 | 0.5                 |
| <b>Total Hours</b>     |      |                                  | <b>18.0</b>    | <b>13</b>         | <b>31.0</b>         |



## CLINICAL ROTATIONS

| Third Year Core Rotations                                   | Months | Semester Hours |
|---|--------|----------------|
| BMP 7108 Psychiatry   | 1      | 8              |
| FMG 7108 Geriatrics   | 1      | 8              |
| FMN 7108 Family Medicine - Clinic                           | 1      | 8              |
| IMA 7124 Internal Medicine                                  | 3      | 24             |
| OBG 7108 Obstetrics/Gynecology                              | 1      | 8              |
| PED 7108 Pediatrics - Ambulatory                            | 1      | 8              |
| PED 7208 Pediatrics - Hospital                              | 1      | 8              |
| SGN 7108 General Surgery                                    | 1      | 8              |
| <b>Senior Year Core Rotations</b>                           |        |                |
| FME 8108 Emergency Medicine                                 | 1      | 8              |
| FMN 8108 Family Medicine - Preceptor                        | 1      | 8              |
| FMR 8124 Rural Medicine - Ambulatory                        | 3      | 24             |
| <b>Senior Year Elective Rotations</b>                       |        |                |
| BMA 8108 Addiction Medicine                                 | 1      | 8              |
| BMP 8108 General Psychiatry                                 | 1      | 8              |
| FME 8108 Emergency Medicine                                 | 1      | 8              |
| FMG 8108 Geriatrics   | 1      | 8              |
| FMN 8208 Family Medicine                                    | 1      | 8              |
| FMO 8108 Osteopathic Manipulative Medicine                  | 1      | 8              |
| FMO 8148 Osteopathic Manipulative<br>Medicine Fellowship I  | 1      | 8              |
| FMO 8248 Osteopathic Manipulative<br>Medicine Fellowship II | 1      | 8              |
| FMR 8208 Rural Medicine                                     | 1      | 8              |
| IDC 8821 Senior Seminar                                     | 1      | 8              |
| IMA 8108 General Internal Medicine                          | 1      | 8              |
| IMA 8208 "Harvey"   | 1      | 8              |
| IMA 8308 Medical Intensive Care Unit                        | 1      | 8              |
| IMD 8108 Dermatology  | 1      | 8              |
| IME 8108 Endocrinology                                      | 1      | 8              |
| IMG 8108 Gastroenterology                                   | 1      | 8              |
| IMH 8108 Hematology/Oncology                                | 1      | 8              |
| IMI 8108 Infectious Diseases                                | 1      | 8              |
| IMK 8108 Nephrology   | 1      | 8              |
| IMN 8108 Neurology  | 1      | 8              |
| IMR 8108 Rheumatology                                       | 1      | 8              |
| IMX 8108 Radiology  | 1      | 8              |
| OBG 8108 Obstetrics/Gynecology                              | 1      | 8              |
| PED 8108 General Pediatrics                                 | 1      | 8              |
| PED 8208 Neonatology  | 1      | 8              |
| PED 8308 Pediatric Sub-specialty                            | 1      | 8              |
| PED 8408 Pediatric Emergency Medicine                       | 1      | 8              |
| PED 8508 Pediatric Infectious Disease                       | 1      | 8              |
| PED 8608 Adolescent Medicine                                | 1      | 8              |
| PED 8708 Pediatric Intensive Care                           | 1      | 8              |
| PTH 8108 Clinical Pathology                                 | 1      | 8              |
| PTH 8208 Forensic Pathology                                 | 1      | 8              |
| SAN 8108 Anesthesiology                                     | 1      | 8              |
| SCV 8108 Cardiovascular Surgery                             | 1      | 8              |
| SGN 8208 Surgical Intensive Care Unit                       | 1      | 8              |
| SNE 8108 Neurosurgery                                       | 1      | 8              |
| SOP 8108 Ophthalmology                                      | 1      | 8              |
| SOR 8108 Orthopedics  | 1      | 8              |
| SPR 8108 Proctology   | 1      | 8              |
| STH 8108 Thoracic Surgery                                   | 1      | 8              |
| SUR 8108 Urology  | 1      | 8              |

## College of Osteopathic Medicine Courses

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

### Anatomy

**Chairman and Professor:** G.R.Conover; **Professor Emeritus:** F.H.Higginbotham; **Professors:** L.Dribin, J.C.Lanning; **Associate Professors:** R.L.Casady, A.Mariassey, R.E.Yip; **Assistant Professor:** D.Herme

*ANA 5114* (20-40-4)

#### *Medical Histology*

Study of cells, tissues and organs of the body as seen through the light microscope, involving both lectures and laboratory work. Covers transmission and scanning electron micrographs.

*ANA 5217* (72-36-7)

#### *Gross Anatomy*

Study of the structure of the human trunk, extremities, head and neck, including dissection by student teams.

*ANA 5423* (36-18-3)

#### *Neuroanatomy*

Study of the gross structure of the brain and spinal cord and the functional relationship among their parts. Emphasizes major motor and sensory pathways and integrative mechanisms of the central nervous system.

### Behavioral Medicine

**Chairman and Professor:** D.Shaw

#### *Division of Medical Humanities*

**Chairman and Professor:** S.Cohen

#### *Division of Psychiatry*

**Chairman and Assistant Professor:**

F.Lewis; **Clinical Associate Professors:** C.Berry, J.Deming, C.B.Mutter, D.Pinosky; **Clinical Assistant Professors:** P.S.Boyne, M.Cuervo, G.Fishman, U.W.Geetz, B.Hutman, E.Kass, C.W.Liberson, D.Mandri, N.Patel, E.Pelta, H.Pineless, A.T.Stilman, M.Gilula; **Clinical Instructor:** E.Reisfeld

*BMH 5105* (0-10-0.5)

#### *Medical Ethics*

Discusses and explores important issues in medical ethics, especially those involving physician/patient relationships.

*BMP 6112* (36-0-2)

#### *Psychiatry*

Introduces the major clinical concepts of psychiatry. Emphasizes the biophysical model as it relates to the assessment, diagnosis, empathic and compassionate treatment of major psychiatric disorders as listed in the DSM-IV.

### Biochemistry

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

*BCH 5116* (114-0-6)

#### *Medical Biochemistry*

Covers biochemical reactions and pathways of normal human health, nutrition from a biochemical viewpoint, the biochemistry of the gastrointestinal, pulmonary, renal, musculoskeletal, endocrine, and other systems.

### Family Medicine

**Chairman and Assistant Professor:** C.Bentley; **Professors:** D.Levine, H.Neer, M.T.Smith, M.A.Terry; **Associate Professors:** A.Feldman, R.Perraud, M.Rosenbluth; **Clinical Associate Professors:** D.Gomez, A.Graubert, F.Srebnick, S.Strikowsky; **Assistant Professors:** A.Hayden, R.Klein, J.Schaffer, S.Simpson, J.Stasio, D.Steinkohl, T.Terry; **Clinical**

**Assistant Professors:** B. Alpert, B. Bellinger, S. Bennett, W. Boyd, E. D. Brandt, K. Brot, E. Bringman, R. Campanile, R. Campitelli, S. Consentino, M. Dayton, K. Dean, H. Delgado, A. Fetchik, B. Feuer, M. Fibrillo, W. Flesner, M. Ghen, R. Greer, J. Grove, P. Jueng, W. Kewshan, B. Krantz, D. Kudelko, R. Levene, R. Moise, R. Molinet, G. Moran, R. Odell, F. Ricon, J. Roberts, H. Serfer, P. Stearns, J. Stein, K. Stein, L. Stillman, S. Strikowsky, D. Lepitz, C. Peterson, V. Vlcko; **Clinical Instructors:** P. Anderson, M. Belloti, P. Cohen, M. Davenport, L. Delo, E. Ginter, J. Kasabian, S. Scott-Holman, J. Momeni, B. Zalis

### *Division of Community Medicine*

**Chairman and Assistant Professor:** A. McLean; **Professor Emeritus:** C. L. Brumback; **Professors:** F. Lippman, M. J. Morris, S. Zucker; **Clinical Professor:** M. Morganstine; **Clinical Associate Professor:** H. H. Mones; **Assistant Professor:** B. Baker, P. McGibney, D. Steinkohl, M. Wilkinson; **Instructor:** S. Ganes; **Clinical Instructor:** D. James

### *Division of Emergency Medicine*

**Chairman and Associate Professor:** B. Feingold; **Clinical Associate Professors:** J. C. Eutzler, M. Latterman; **Clinical Assistant Professors:** J. Gordon, A. Memon, E. Rancatore, S. Saef, D. Schillinger, K. Schrank, S. Silverman, S. Tenenbaum, J. Yates

### *Division of Geriatrics*

**Chairman and Associate Professor:** F. Komara; **Instructor:** B. Birgani

### *Division of Osteopathic Manipulative Medicine*

**Chairman and Professor:** A. Snyder; **Professor Emeritus:** M. Greenhouse;

**Assistant Professors:** R. Chase, K. Hotchner, F. Linetsky, M. Sandhouse, W. Stager

### *Division of Physical Medicine and Rehabilitation*

**Chairman and Assistant Professor:** R. Tolchin; **Assistant Professors:** M. Gilbert, D. Salazar; **Clinical Assistant Professors:** M. Creamer, I. Haber

### *Division of Rural Health and Research*

**Chairman and Professor:** M. Goldstein

*FMN 5221 (18-0-1)*

#### *Medical Epidemiology*

Introduction to basic concepts of epidemiology and biostatistics as it pertains to public health and disease processes.

*FMC 6421 (18-0-1)*

#### *Medical Jurisprudence*

Seminar and lecture series covering physician-attorney relationships, legal terminology and principles. Emphasizes medical risk management.

*FME 5105 (0-8-0.5)*

#### *Basic Life Support*

American Heart Association-approved course leading to certification upon successful completion.

*FME 6221 (0-18-1)*

#### *Advanced Cardiac Life Support*

American Heart Association-approved advanced cardiac life support course, taken prior to clinical rotations.

*FMG 6105 (10-0-0.5)*

#### *Geriatrics*

Review of the normal geriatric patient and pertinent pathological processes. Stresses psychosocial aspects, therapeutics, chronic care management.

**FMO 5113 (18-36-3)*****Osteopathic Manipulative Medicine I***

Introduction to general principles and techniques of diagnosis of the axial skeleton and paraspinal regions. Introduces students to basic terminology and examination skills through lecture, demonstration, and hands-on performance.

**FMO 5223 (18-36-3)*****Osteopathic Manipulative Medicine II***

Covers principles and techniques on a regional basis. Stresses the neurophysiological aspects of muscle dysfunction and pain mechanisms. Treatment modalities include counterstrain, myofascial release, indirect technique and muscle energy technique.

**FMO 6113 (18-36-3)*****Osteopathic Manipulative Medicine III***

Continues the study of osteopathic diagnosis and treatment, and the development of skills learned in previous semesters. High velocity, low amplitude techniques are included. Interdisciplinary clinical correlation is emphasized.

**FMO 6423 (18-36-3)*****Osteopathic Manipulative Medicine IV***

Development of the osteopathic approach to systemic diseases, utilizing skills learned in previous semesters. Cranial osteopathic technique is included. Interdisciplinary clinical correlation is emphasized.

**FMO 8148 (0-960-[Clinic]-48)*****Osteopathic Manipulative Medicine Fellowship I***

The first of two practica, this rotation introduces the OMM Fellow to the concepts of ongoing ambulatory osteopathic care and offers some limited teaching opportunities.

**FMO 8248 (0-960-[Clinic]-48)*****Osteopathic Manipulative Medicine Fellowship II***

A continuation of the first practicum, this rotation builds on the Fellows' patient care responsibilities and stresses a more intense teaching load.

**FMR 6205 (10-0-0.5)*****Rural Medicine***

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

**Internal Medicine**

**Chairman and Professor:** A.A. Greber;

**Professors:** R.Kaufman, Morton Terry;

**Professor:** M.M.Aye; **Clinical Associate Professors:** L.Chaykin, S.Fields,

G.Kotsch, D.Saltzman, C.D.Wingfield;

**Assistant Professors:** C.Coelho, G.Cowen,

J.Eisermann, D.Hanney, M.Lamet, J.Levien,

E.Levy, E.Shapiro; **Clinical Assistant**

**Professors:** Steven Attermann, R.Andreae,

J.Arosemmia, B.Bagdasin, L.Bush, M.Carp,

M.Davis, A.DeGordon, L.Farmer,

E.Fernandez, R.Furlong, K.Gelman,

C.Halfpenny, T.Harrell, G.Harris,

F.Henriquez, F.Justiniani, B.Kelly, M.Kwan,

D.Maharaj, J.Mayer, R.Meigs, R.Melluzo,

J.Moore, K.Moore, A.Naddell, J.Namey,

B.Olazabel, E.Pesetsky, H.Pflanzer,

G.Pierone, J.Quero, L.Sanchez, A.Shapiro,

R.Shultz, W.Siebert, G.Singer, H.Singh,

T.Skrovinsky, S.Smith, O.Venzor,

S.Warman, S.Yagger

**Division of*****Cardiovascular Medicine***

**Chairman and Professor:** A.A. Greber;

**Clinical Associate Professors:**

J.G.Minkes, D.M.Spiller; **Clinical Assistant Professors:** M.Kesselman,

P.E.Kudelko, M.A.Ravitsky, N.B.Tytler

Jr., R.Walsh; **Visiting Professor:** R.Berger

**Division of Dermatology**

**Chairman and Clinical Associate Professor:** H.A.Schwartzberg; **Clinical Professor:** I.Feldman; **Clinical Associate Professors:** P.Dermer, S.E.Skopit; **Clinical Assistant Professor:** D.Longwill-Fox

**Division of Hematology/  
Oncology**

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

**Division of Nephrology**

**Chairman and Clinical Assistant Professor:** J.Waterman; **Clinical Associate Professor:** C.Abraira; **Clinical Assistant Professor:** S.Snyder

**Division of Neurology**

**Chairman:** Vacancy; **Professor:** L.Jacobson; **Clinical Associate Professor:** B.J.Cutler; **Clinical Assistant Professors:** M.Swerdloff, H.Todd, P.Winner; **Clinical Instructor:** V.Salanga

**Division of Pulmonary  
Medicine**

**Chairman and Professor:** E.Bolton, Jr.; **Clinical Assistant Professors:** L.Barroso, J.Giamimo, D.J.O'Leary

**Division of Radiology**

**Chairman and Professor:** D.Finkelstein; **Clinical Associate Professors:** S.Bakst, B.E.Pyko; **Clinical Assistant Professor:** C.Wamokaski; **Clinical Instructors:** R.Burke, R.Farber

**Microbiology**

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

**MIC 5126**

(114-0-6)

**Medical Microbiology**

Includes Bacteriology, Virology, Parasitology, Mycology.

**Obstetrics and Gynecology**

**Chairman and Professor:** D.R.Barkus; **Clinical Professor:** B.L.Stalnaker; **Clinical Associate Professors:** E.E.Ballestas, R.J.Bass, G.Gouch, J.Hayes, T.W.Lowe; **Clinical Assistant Professors:** E.Antonetti, A.Arbaunza, G.M.Bankert, R.J.Bass, W.D.Bliss, D.Brooks, J.C.Coello, A.S.Cooper, M.Dabideen, D.Deleo, S.J.Dunkin, H.M.Epstein, T.A.Filippo, S.Fox, T.M.Goldberg, R.Kreiness, A.H.Krinsky, P.B.Kruger, J.M.Lynn, J.Olsen, M.Newman, H.N.Nguyen, M.A.Rivera, S.Silvers, T.A.Siprell, L.A.Stempel, D.Turner; **Instructor:** K.E.Johnson

**Pathology**

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

**PTH 6112**

(36-0-2)

**Principles of Pathology**

Introduces students to basic concepts and principles of pathology needed for the applied clinical courses to follow during the semester.

**Pediatrics**

**Chairman and Professor:** C.Blavo; **Professor:** A.Melnick; **Clinical Professor:** C.Wharton; **Clinical Associate Professors:** M.Marcus, E.J.Marsh; **Clinical Assistant Professors:** J.Albrecht, M.Cintas, J.DelToro, O.Dominguez, F.Guyer, S.M.Haynes, A.M.Johnson, R.Joseph, R.J.Joseph, R.Lopez-Guerrero, H.Perez, B.Rub, J.Rub, M.Rub, R.Schloe-

gel, M.Siddidui, F.Sterling, B.Udell, M.Villarosa

## Pharmacology

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

*PCO 6112* (36-0-2)

### *Principles of Pharmacology*

Introduces basic pharmacological concepts and principles needed for the applied clinical science courses to follow during the semester.

## Physiology

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

*PHS 5126* (114-0-6)

### *Medical Physiology*

Study of general physiology (cell function, membrane translocation, electrophysiology, muscle physiology), cardiovascular, renal, gastrointestinal, respiratory, endocrine, and neurophysiology.

## Surgery

**Chairman:** Vacancy; **Professor Emeritus:** S.Kaye; **Clinical Professors:** E.Berg, R.Laskody, A.LaTorra, M.A.Longo; **Clinical Associate Professors:** C.Carr, R.Comperatore, O.Garcia, M.Gordon, D.Osman, A.Santelices, R.Sonn; **Clinical Assistant Professors:** H.Bafities, M.Bedecs, F.Cherry, R.Frilen, R.Johnson, A.Lepoff, G.Lowery, J.Neily, P.Tomasello; **Clinical Instructors:** H.Bashein, R.Kimmel, I.Millan, J.Tomas

## *Division of Anesthesiology*

**Chairman and Clinical Associate Professor:** R.H.Sculthorpe; **Clinical Associate Professor:** E.L.Lowery; **Clinical Assistant Professor:** G.J.Arcos; **Clinical Instructor:** B.Hindin

## *Division of General Surgery*

**Chairman and Clinical Associate Professor:** E.Wiener; **Clinical Associate Professor:** B.Silverman

## *Division of Ophthalmology*

**Chairman and Clinical Associate Professor:** W.Bizer; **Professor Emeritus:** E.D.Hersh; **Clinical Associate Professor:** P.Shettle; **Clinical Assistant Professors:** R.L.Bentz, C.Berger, R.J.Guliner, E.R.Leonard, A.L.Rubin, R.Susi

## *Division of Orthopedic Surgery*

**Chairman and Clinical Professor:** M.Rech; **Professor Emeritus:** B.B.Swartz; **Professor:** M.J.Morris; **Clinical Associate Professor:** D.L.Gula; **Clinical Assistant Professors:** D.Horvath, M.Richman, M.Weiss

## *Division of*

### *Otorhinolaryngology*

**Chairman and Clinical Professor:** D.J.Duncan; **Clinical Associate Professors:** J.H.Caschette; **Clinical Assistant Professors:** M.Bibliowicz, R.Contrucci, J.Dickens, D.Harrington, R.Maliner, C.Shapiro, H.Sussman

## *Division of Urology*

**Chairman and Clinical Professor:** W.A.Steinsnyder; **Clinical Associate Professors:** R.A.Hoffberger, B.Rappel; **Clinical Assistant Professors:** R.B.Antosek, K.Ciancolo, M.Weinstein

## INTERDISCIPLINARY COURSES

*IDC 5105* (0-8-0.5)

### *Medical Informatics*

Introduction to the use of computers with specific applications to medicine, including e-mail, electronic textbooks and presentation software.

- IDC 5112** (0-36-2)  
**Clinical Practicum I**  
Introduces medical history taking and physical examination techniques. Emphasizes communication skills and physician/patient interactions.
- IDC 5305** (8-0-0.5)  
**Violence and Abuse**  
Introduces the problems of domestic violence, child abuse, and the impact of violence on the family. Discusses the role of social services, the legal system and intervention by the physician.
- IDC 5405** (0-10-0.5)  
**Library Skills Workshop**  
Introduction to printed and electronic resources of the library and to computer searching techniques through the library subscription database and the Internet.
- IDC 5505** (8-0-0.5)  
**Ethnocultural Medicine**  
Exposes students to skills and insights needed to deal with problems of providing health care to minorities. Stresses need for effective communication, understanding of cultural factors and how they impact on patient compliance and the doctor/patient relationship.
- IDC 5522** (0-36-2)  
**Clinical Practicum II**  
Development of history and physical examination skills utilizing simulated patient examinations.
- IDC 5771** (0-18-1)  
**Clinical Correlation I**  
Small-group interactive sessions emphasize care of the normal patient and preventive medicine. Cases are correlated with ongoing clinical experience and didactic course work.
- IDC 5821** (0-18-1)  
**Clinical Correlation II**  
Continuation of small-group interactive sessions emphasizing care of the normal patient and preventive medicine. Cases are correlated with ongoing clinical experience and didactic course work.
- IDC 6005** (6-0-0.5)  
**HIV Seminar**  
Review of diagnosis and management of HIV infections and disease, with emphasis on counseling and comprehensive care of the HIV-infected patient.
- IDC 6012** (0-36-2)  
**Clinical Correlation III**  
Small-group interactive sessions in which problem-solving skills are applied to case studies, utilizing clinical, laboratory, and radiographic data. The cases correlate with the content of the didactic and clinical courses being taught.
- IDC 6122** (0-36-2)  
**Clinical Correlation IV**  
Continuation of small-group interactive sessions in which problem-solving skills are applied to case studies, utilizing clinical, laboratory, and radiographic data. The cases correlate with the content of didactic and clinical courses being taught.
- IDC 6221** (0-18-1)  
**Clinical Procedures II**  
Further introduction to common procedures encountered in clinical practice, with emphasis on proper technique.
- IDC 6623** (0-36-3)  
**Clinical Practicum IV**  
Continuation of focused problem-based simulated case presentations are emphasized. Students are assigned hospital histories and physical examinations.
- IDC 6705** (8-0-0.5)  
**Alternative Medicine**  
Introduces concepts and practices of alternative and complementary medicine.



**IDC 6905 (8-0-0.5)*****Pre-Clerkship Seminar***

A series of presentations at the end of the sophomore year to reinforce knowledge and skills useful for clinical rotations. Topics include: risk management, medical record documentation, OSHA regulations, physician/patient relationship, standard health maintenance care of an adult and child, hospital protocols, literature research, and educational resources.

**IDC 6911 (0-18-1)*****Clinical Procedures I***

Introduces common procedures encountered in clinical practice. Emphasizes proper technique.

**IDC 6913 (0-36-3)*****Clinical Practicum III***

Students perform problem-based simulated-patient focused evaluations. Emphasizes case presentations. Students are assigned hospital histories and physical examinations.

**IDC 8821 (20-0-1)*****Senior Seminar***

A series of presentations prior to graduation to reinforce knowledge and skills useful for the internship experience. Topics include: medical economics, risk management, on-call medication, physician impairment, professional liability, medical licensure, emergency management. A mock trial is presented.

## INTERDISCIPLINARY PRECEPTORSHIPS

The Interdisciplinary Generalist Preceptorships introduce students to primary care clinical settings (specifically, managed care) early in their medical education. This physician mentor program emphasizes Family Medicine, General Internal Medicine, and General Pediatrics. In year one, students rotate, on a

weekly basis, with primary care physicians. In year two, students continue these experiences and also rotate through managed care headquarters.

**IDC 5212 (40-0-2)*****IGC Preceptorship I*****IDC 5422 (40-0-2)*****IGC Preceptorship II*****IDC 6514 (80-0-4)*****IGC Preceptorship III*****IDC 6624 (80-0-4)*****IGC Preceptorship IV***

## INTERDISCIPLINARY SYSTEMS

The Systems courses involve participation by the Departments of Family Medicine, Internal Medicine, Pediatrics, Obstetrics and Gynecology, Behavioral Medicine, Surgery and Basic Sciences. Traditional classroom lectures are given in an integrated fashion so that clinical aspects, pathophysiology of diseases and disorders of each system are addressed. Infectious diseases and malignancies are addressed in each system. Pharmacology and Pathology are integrated extensively in all the systems. Osteopathic principles and practice are also integrated into all the systems.

**IDC 6113 (50-0-3)*****Hematopoietic and  
Lymphoreticular System***

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

**IDC 6215 (88-0-5)*****Cardiovascular System***

Covers pathophysiology, diagnosis and management of common cardiovascular



disorders. Teaches electrocardiography, and includes training in the use of "Harvey."

**IDC 6223 (57-0-3)**

**Reproductive System**

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

**IDC 6314 (76-0-4)**

**Respiratory System**

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

**IDC 6324 (62-0-4)**

**Nervous System**

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

**IDC 6412 (30-0-2)**

**Endocrine System**

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

**IDC 6423 (50-0-3)**

**Musculoskeletal System**

Covers diseases, disorders of the musculoskeletal system. Addresses pathophysiology, diagnosis and management of rheumatologic disorders, orthopedics, aspects of physical medicine and rehabilitation. Osteopathic Manipulative Medicine is in this system.

**IDC 6524 (70-0-4)**

**Gastrointestinal System**

Covers pathophysiology, diagnosis, management of gastrointestinal diseases, disorders; infectious, neoplastic diseases affecting the gastrointestinal system.

**IDC 6612 (30-0-2)**

**Integumentary System**

Covers clinical aspects of skin diseases, infections of the skin, skin pathology, pediatric dermatoses, neoplastic disorders of the skin, burn management, plastic surgery, skin disorders, cutaneous manifestations of systemic disorders, and diseases of the breast.

**IDC 6813 (51-0-3)**

**Renal/Urinary System**

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

*Affiliated Hospitals***Broward General Medical Center**

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

**Columbia Hospital**

West Palm Beach  
 Chief Executive Officer: Michael Fencel

**Coral Springs Medical Center**

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

**Florida Hospital East Orlando**

Orlando  
 D.M.E.: Glenn Bigsby, D.O.  
 President: Sandra Randolph, M.B.A.

**Florida Medical Center South**

Plantation  
 D.M.E.: Glenn Moran, D.O.  
 Chief Executive Officer: Gregory Boyer

**Glades General Hospital**

Belle Glade  
 Chief Executive Officer: Neil Whipkey

**Gulf Coast Hospital**

Ft. Myers  
 President: Denny W. Powell

**Imperial Point Medical Center**

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

**Jackson Memorial Hospital**

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

**J.F.K. Medical Center**

Atlantis  
 Chief Executive Officer: Richard Cascio

**Memorial Regional Hospital**

Hollywood  
 Bruce Rappaport, M.D.  
 Director of Medical Affairs

**Miami Children's Hospital**

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

**Miami Heart Institute**

Miami  
 President/CEO: Reuven Savitz

**Mount Sinai Medical Center**

Miami Beach  
 Frederico Justiniani, M.D., D.M.E.  
 President/Chief Executive Officer:  
 Fred Hurt, M.H.A.

**North Broward Medical Center**

Pompano Beach  
 H. Murray Todd, M.D.,  
 Associate Medical Education Director

**Palmetto General Hospital**

Hialeah  
 D.M.E.: Marc Morganstine, D.O.  
 Acting Chief Executive Officer:  
 George Fayer, M.B.A.

**Palms West Hospital**

Loxahatchee  
 CEO: Wayne Cambell

**Southwest Florida Regional Medical Center**

Ft. Myers  
 President/CEO: Nick Carbone

**Sun Coast Hospital**

Largo  
 D.M.E.: James Eutzler, D.O.  
 Chief Executive Officer: Jeffrey A. Collins

**University Community Hospital of Carrollwood**

Tampa  
 D.M.E.: Oscar Venzor, D.O.  
 Administrator: Larry Archbell

**Westchester General Hospital**

Miami  
 D.M.E.: Harris Mones, D.O.  
 Administrator: Gilda Baldwin

## Special Academic Programs

### *SYFAM - Seven-Year Family Medicine Program*

Recognizing the need for family medicine physicians, Nova Southeastern University College of Osteopathic Medicine has established a seven-year track for entering students. This ensures an uninterrupted education for students committed to family medicine and eliminates the need for repeated applications and competition for internships and residencies.

Students who successfully complete the first four years of this track, the medical school years, will be guaranteed appointment to an internship program in a Nova Southeastern University-affiliated institution, and then to a Nova Southeastern University Family Medicine Residency for two years. The University allows students to choose which Nova Southeastern University-affiliated programs they desire, when available. The student, by accepting admission into this track, agrees to these appointments. During the four years of medical school, regular tuition will be charged. During internship and residency, compensation shall be equal to comparable salaries paid at the time.

Approximately 40 slots in the entering class will be set aside for the SYFAM track. During the medical school years, students on this track will be organized into a special group and receive benefits such as special education programs, subsidized attendance at state and national meetings of the American College of Osteopathic Family Physicians and similar activities. A qualified family medicine physician will be appointed advisor to the group.

### *Area Health Education Center (AHEC)*

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

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

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

## Rural Medicine Program

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

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

The rural medicine program provides a unique, enriching experience. Nova Southeastern University's academic officers believe that exposure to rural practice better prepares and motivates young health professionals to practice in rural underserved areas.

## Dual Admission Program

Nova Southeastern University Health Professions Division has established a dual admission program with the Nova Southeastern University Farquhar Center for Undergraduate Studies for a select number of highly motivated, qualified students interested in pursuing both undergraduate and professional studies in osteopathic medicine. This allows candidates to receive their doctoral degrees in osteopathic medicine in a 7-year or 8-year period.

Candidates must maintain a specified G.P.A. and S.A.T. score to be eligible for the Dual Admission Program, and achieve acceptable scores on the Medi-

cal College Admissions Test (MCAT).

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

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

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

## D.O./M.P.H. Program

A Doctor of Osteopathic Medicine/Master of Public Health dual degree program is available to students. The MPH degree is administered and granted by the College of Allied Health. Students may contact the Office of Academic Affairs of the College of Osteopathic Medicine for details on this program. Participation in this program for College of Osteopathic Medicine students is at the discretion of the Dean of the College of Osteopathic Medicine.

## Student Organizations

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

The Student Council President is the College of Osteopathic Medicine's representative on the Council of Student

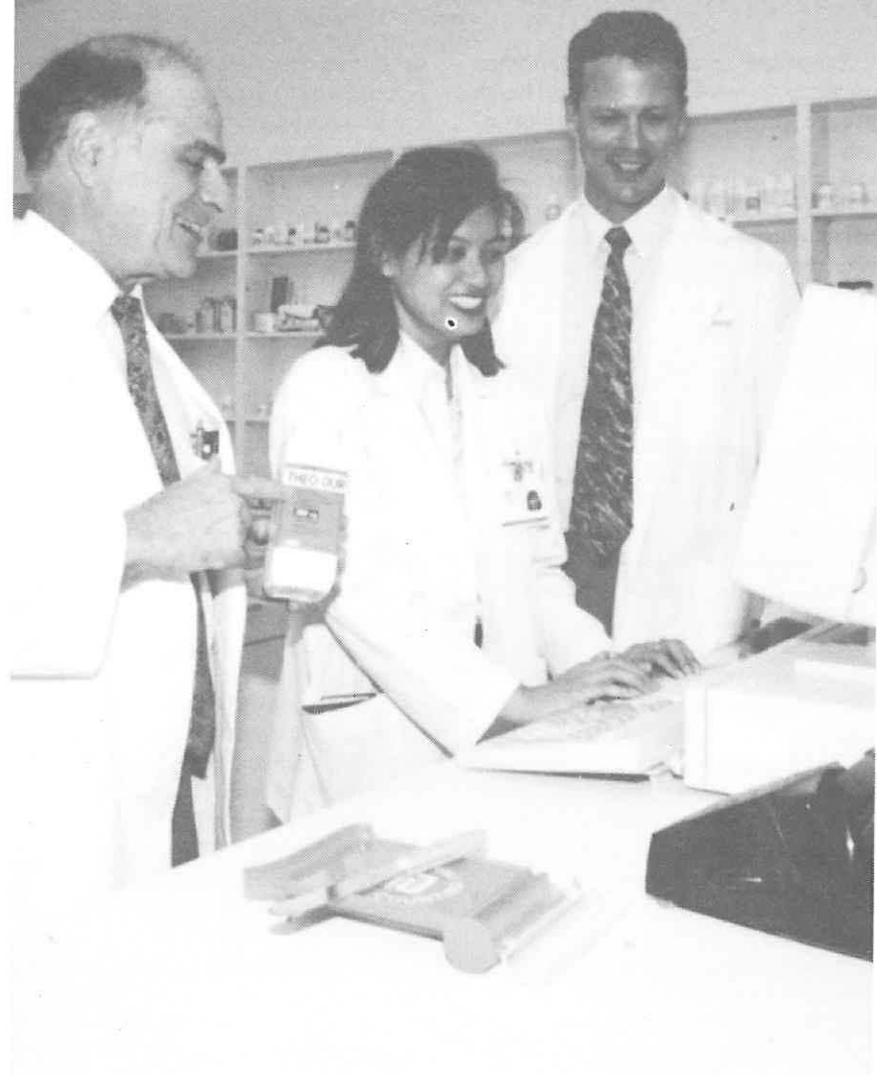
Council Presidents (CSCP), an organization composed of student government presidents from each of the 17 osteopathic medical schools in the U.S.

*Other*

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

- Student Associate Auxiliary
- Student Osteopathic Medical Association
- The Undergraduate American Academy of Osteopathy
- Student National Medical Association
- American Medical Student Association
- Lambda Omicron Gamma
- Undergraduate Chapter of American College of Osteopathic Family Physicians

# College of Pharmacy



## Mission Statement

The primary mission the College of Pharmacy is to serve the pharmaceutical health care needs of Florida by educating pharmacists to be able to provide contemporary as well as innovative pharmacy services. The College will offer dynamic curricula which include a broad base of didactic and experiential components, enabling the graduate to

develop practice skills to function effectively and efficiently in a changing and challenging health care environment. Consistent with this mission, contribution to the body of knowledge through scholarly activity, and service as appropriate are also important goals.



**William D. Hardigan,**  
**B.S., M.S., Ph.D.**  
**Dean**

## Administration

William D. Hardigan, B.S., M.S., Ph.D., Dean

Paul Magalian, B.S., Associate Dean Emeritus

Dean L. Arneson, Pharm.D., M.S., Ph.D.,

Assistant Dean for Student Academic Affairs

Lisa Deziel-Evans, B.S., Pharm.D., Assistant Dean for Academic Affairs

Carsten Evans, B.S. Pharm., M.S., Ph.D., Assistant Dean for Professional Affairs

Andres Malavé, B.S., M.S., Ph.D., Assistant Dean for Pharmaceutical Sciences

Christopher Rodowskas, Jr., B.S., M.S., Ph.D.,

Assistant Dean for Pharmacy Administration

Scott A. Swigart, B.S., Pharm.D., Assistant Dean for Pharmacy Practice

## Pharmacy

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

The College of Pharmacy admitted its first class in 1987 to become the only College of Pharmacy in South Florida. Since then, it has graduated 678 professionals with either Bachelor of Science in Pharmacy or Doctor of Pharmacy (Pharm.D.) degrees. Because of the profession's demand for greater clinical specialization, the College has discontinued its baccalaureate degree program.

Pharmacists are experts on drugs and therapeutic goals, their biological action and uses, formulation, adverse effects and po-

tential for drug interactions. However, pharmacists are not just drug-oriented, but people-oriented. They consider both the medication and the patient to ensure that the patient has the right drug, in the right amount, for the right length of time, and with a minimum of adverse effects. The result is improved health care.

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

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



## Accreditation

The American Council on Pharmaceutical Education has accredited the Doctor of Pharmacy program of the College of Pharmacy, Nova Southeastern University. The College of Pharmacy is a member of the American Association of Colleges of Pharmacy.

## Facilities

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

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

## Requirements for Admission

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

### *Pre-Pharmacy Studies*

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

|  | Semester Hours |
|--|----------------|
| General biology,<br>including laboratory                   | 8              |
| General chemistry,<br>including laboratory                 | 8              |
| Organic chemistry,<br>including laboratory                 | 8              |
| Calculus (from a mathematics<br>department)                | 3              |
| Statistics   | 3              |
| Humanities   | 3              |
| Social/Behavioral sciences                                 | 3              |
| English  | 6              |
| Speech   | 3              |
| Economics (macro/micro)                                    | 6              |
| Additional Social/Behavioral<br>sciences and/or Humanities | 9              |
| Computer literacy  | 3              |

2. Students must have a GPA of 2.75 or higher on a four-point scale. To assure a well-rounded background for professional studies and adequate preparation in mathematics and sciences, the College requires students to earn a grade of 2.0 or better in each required pre-pharmacy course and a minimum grade of 2.0 in all biology courses, in all chemistry courses, and in all mathematics courses. We strongly recommend that courses taken outside these requirements be in the social and behavioral sciences or the humanities.
3. Applicants are required to submit official scores from the Pharmacy College Admission Test (PCAT). A national, standardized examination, the PCAT is designed to measure verbal ability, quantitative ability, reading comprehension, and knowledge of biology and chemistry. PCAT scores must be no more than five years old at the time of interview. Applicants should take the PCAT no later than October or February prior to the expected date of matriculation. Candidates should schedule pre-pharmacy course work so that they complete biology and some chemistry courses be-

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

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

### Foreign Course Work

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

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

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

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

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

### Application Procedure *Full-time Professional Program*

Inquiries for admission should be addressed to the Office of Admissions, College of Pharmacy, 3200 South University Drive, Ft. Lauderdale, Florida 33328, telephone (954) 262-1101 or (800) 356-0026.

Candidates for admission must submit:

1. A completed application form along with a \$50 non-refundable application fee
2. A letter of evaluation from the undergraduate Pre-professional Committee, or, if such a committee does not exist, three letters of evaluation, two from science professors and one from a liberal arts professor
3. Official Pharmacy College Admission Test (PCAT) scores not more than five years old
4. Official college transcripts from all undergraduate and graduate institutions attended, sent directly from the institution

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

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

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

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

## Tuition and Fees

### *Full Time Professional Program*

1. Anticipated tuition for 1998-99 (subject to change by the Board of Trustees without notice): \$12,940 for Florida residents and \$15,600 for out-of-state students. A student activities fee of \$100 each year is required of all students. Eligible students must request in-state tuition on application. For tuition purposes, a student's Florida residency status (in-state or out-of-state) will be determined at initial admission and will remain the same throughout the entire enrollment of the student at NSU. Accordingly, tuition will not be adjusted as a result of any change in residency status after initial enrollment registration.
2. Acceptance Fee: \$100. This fee is required to reserve the accepted applicant's place in the entering first year class. This advance payment will be deducted from the tuition payment due on Registration Day, but is not refundable in case of withdrawal. It is payable within two weeks of the applicant's acceptance.
3. Deposit: \$400, due March 15, under the same terms as the Acceptance Fee.
4. Pre-registration Fee: \$500, due May 15, under the same terms as the Acceptance Fee.
5. Student Activities Fee: \$100, payable at each fall registration.

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

## Dual Admissions Program: Undergraduate/Pharm.D. Program

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

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

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

## Financial Aid

The purpose of the Student Financial Aid Program at Nova Southeastern University is to help as many qualified students as possible to complete their pharmacy education. Various loans, scholarships, and grants are available to qualified students to help ease the

high cost of a pharmacy education. These programs are described in the University publication *Financial Planning for Your Health Professions Education*.

## Transfer Credits

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

Students entering the College of Pharmacy with an advanced standing may be given credit for courses which are applicable to the courses outlined in the curriculum of the College of Pharmacy. The Dean's office will evaluate the courses and determine appropriate credits. The program, however, must be completed in seven calendar years. A minimum of 16 credit hours of didactic course work and a minimum of five clerkships must be completed at NSU.

## Suspension/Dismissal

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

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

Failure of two or more courses, Externship or Clerkship rotations, regardless of remediation status, will result in automatic suspension and may lead to dismissal.

Any student falling in the above categories may be required to repeat courses (at his or her expense), at the discretion of the

Dean's office. Unprofessional conduct will result in dismissal. Any student with a GPA below 70% for two semesters will be suspended and may be dismissed.

## Re-Admission Policy

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

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

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

## Graduation Requirements

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

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

## Internship

Internship is a requirement for licensure but not for graduation from the College of Pharmacy. Internship must be completed within the guidelines of the Florida Board of Pharmacy as set forth in the Rule, Chapter 61F10, or by 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 For Students Who Entered in 1997 and Earlier

### *First Year*

The first year of the professional curriculum provides a foundation in the basic sci-

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

### *Second Year*

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

### *Third Year*

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

### *Fourth Year*

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

During this semester, students select four 160-hour rotations in speciality areas.

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

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

## CURRICULUM OUTLINE

For students who entered in 1997 and earlier

### First Year

#### First Semester

|                                   |           |
|-----------------------------------|-----------|
| Pharmacy Calculations .....       | 1         |
| Anatomy & Pathophysiology I ..... | 5         |
| Physical Pharmacy .....           | 3         |
| Biochemistry .....                | 4         |
| Pharmacodynamics I .....          | 3         |
| Pharmacy Administration I .....   | 2         |
| Dean's Hour I .....               | 0         |
| <b>Semester Hours .....</b>       | <b>18</b> |

### Second Year

#### First Semester

|   |           |
|---|-----------|
| Therapeutics I .....                    | 4         |
| Pharmacodynamics III .....              | 4         |
| Pharmaceutics .....                     | 3         |
| General Education I .....               | 3         |
| Pharmacy Law .....                      | 3         |
| Electives - Pharmaceutical Sciences...1 |           |
| <b>Semester Hours .....</b>             | <b>18</b> |

### Third Year

#### First Semester

|  |   |
|--|---|
| Experimental Design & Statistics .....                                 | 4 |
| Drug Literature Evaluation .....                                       | 2 |
| Clinical Pharmacokinetics and<br>Interpretation of Laboratory Data...4 |   |
| Advanced Pharmacotherapeutics.....6                                    |   |
| Electives - Pharmaceutical Sciences...2                                |   |
| <b>Semester Hours.....18</b>   |   |

### Fourth Year

#### First Semester

|  |     |
|--|-----|
| Clerkship II (Internal Medicine) ..... | 3.5 |
| Clerkship II (Ambulatory Care) .....   | 3.5 |
| Clerkship II (Geriatric Care) .....    | 3.5 |
| Clerkship II (Drug Information) .....  | 3.5 |
| <b>Semester Hours.....14</b>           |     |

#### Second Semester

|                                    |   |
|------------------------------------|---|
| Anatomy & Pathophysiology II ..... | 5 |
| Pharmacokinetics .....             | 4 |
| Pharmacodynamics II .....          | 5 |
| Microbiology .....                 | 3 |
| Pharmacy Administration II .....   | 2 |
| Dean's Hour II .....               | 0 |
| <b>Semester Hours..... 19</b>      |   |

#### Second Semester

|                                |   |
|--------------------------------|---|
| Therapeutics II .....          | 4 |
| Pharmacodynamics IV .....      | 3 |
| Physical Assessment .....      | 2 |
| Prescription Practice .....    | 3 |
| General Education II .....     | 3 |
| Pharmaceutical Marketing ..... | 2 |
| <b>Semester Hours..... 17</b>  |   |

#### Second Semester

|                                      |   |
|--------------------------------------|---|
| Externship I - Community .....       | 7 |
| Externship II - Health Centers ..... | 7 |
| <b>Semester Hours..... 14</b>        |   |

#### Second Semester

|                                |     |
|--------------------------------|-----|
| Clerkship III (elective) ..... | 3.5 |
| Clerkship III (elective) ..... | 3.5 |
| Clerkship III (elective) ..... | 3.5 |
| Clerkship III (elective) ..... | 3.5 |
| <b>Semester Hours..... 14</b>  |     |

Note: A revised curriculum is under consideration with approval anticipated soon. The new curriculum will apply to students who matriculate in Fall, 1998. It will be substantially the same as the present curriculum, with minor changes.



## POSTGRADUATE DOCTOR OF PHARMACY PROGRAM

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

The program educates students to achieve the same outcomes as the entry-level Pharm.D. program, and meets the needs of working pharmacists. Didactic courses are scheduled in the evenings at Ft. Lauderdale, and by compressed interactive video at Ft. Myers, Jacksonville, Orlando, Sarasota, Tampa, and West Palm Beach, Florida, and San Juan, PR. Students vary course loads according to their work schedules. This approach has distinct advantages over other degree programs because of the flexibility of scheduling at the location. Courses are taught in person via Interactive Video by campus-based faculty. Site coordinators provide assistance also, and communication between sites is maintained.

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

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

Students must be prepared to complete clinical rotations which have direct patient contact, such as internal medicine, on a full-time basis. The four-week rotations follow the didactic course work and need not be taken in succession. However, all courses must be completed within seven years, and all didactic courses within five years of the initiation of course work. At least 16 semester hours of didactic course work and five

clerkships must be completed at NSU College of Pharmacy, regardless of the number of hours which may be transferred from another Pharm.D. program.

### Tuition and Fees

The Board of Trustees has established the following tuition and fees for 1998-99, which are subject to change at any time at the Board's discretion:

1. Tuition: \$350 per semester 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 within 30 days of the applicant's acceptance, under the same terms as the Acceptance Fee.

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

### Application Procedure

Inquiries for admission should be addressed to the Office of Admissions, College of Pharmacy, 3200 South University Drive, Ft. Lauderdale, Florida 33328, telephone (954) 262-1101 or (800) 356-0026.

Candidates for admission must submit:

1. A completed application form along with a \$60 non-refundable application fee. Deadline for fall semester is July 15. Deadline for winter semester is December 1.

2. Completed college transcripts from all undergraduate and graduate institutions attended, sent directly to the Office of Admissions, College of Pharmacy, from the Registrar's Office at each institution attended.

## Curriculum

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

Upon completion of these 25 hours of course work, the student is prepared to pursue the clinical clerkship portion of the curriculum. This is the equivalent of one academic year for those students who have had little, if any, clinical experience. Students possessing considerable clinical experience may apply for partial clerkship credit; however, it shall not exceed three clerkship

rotations of life experiences. To assess life experience, a non-refundable fee of \$500 will be charged. Students receiving credit for life experiences will not pay full tuition for the clinical clerkship and a portion of the clerkship therefore may be replaced. However, a minimum tuition of \$5,000 will be charged for clerkships regardless of the amount of life experiences credits granted.

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

## Clerkships

The College of Pharmacy provides innovative practice experiences to its students. Off-campus pharmacy practices provide involved experiences in the clerkship. Most affiliated practice sites are based in South Florida with several in the Tampa Bay 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 on the application of didactic knowledge and skills in a non-laboratory, patient care setting under the supervision of College clinical faculty.

## Suggested Postgraduate Pharm.D. Curriculum Outline

### First Year

#### First Semester

|                                       |   |
|---------------------------------------|---|
| Advanced Pathophysiology.....         | 3 |
| Experimental Design & Statistics..... | 4 |

**Semester Hours.....7**

### Second Year

#### First Semester

|                              |   |
|------------------------------|---|
| Advanced Therapeutics I..... | 3 |
| Physical Assessment.....     | 2 |

**Semester Hours.....5**

### Third Year

#### First Semester

|                                       |     |
|---------------------------------------|-----|
| Clerkship II (Internal Medicine)..... | 3.5 |
| Clerkship II (Ambulatory Care).....   | 3.5 |
| Clerkship II (Geriatric Care).....    | 3.5 |
| Clerkship II (Drug Information).....  | 3.5 |

**Semester Hours.....14.0**

#### Second Semester

|  |   |
|--|---|
| Advanced Pathophysiology II.....                                   | 3 |
| Clinical Pharmacokinetics & Interpretation of Laboratory Data..... | 4 |

**Semester Hours .....7**

#### Second Semester

|                                 |   |
|---------------------------------|---|
| Advanced Therapeutics II.....   | 4 |
| Drug Literature Evaluation..... | 2 |

**Semester Hours .....6**

#### Second Semester

|                               |     |
|-------------------------------|-----|
| Clerkship III (elective)..... | 3.5 |
| Clerkship III (elective)..... | 3.5 |
| Clerkship III (elective)..... | 3.5 |
| Clerkship III (elective)..... | 3.5 |

**Semester Hours.....14.0**



## Externship/Clerkship Sites

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

**Allen Drugs**  
South Miami, FL

**A.G. Holley State Hospital**  
Lantana, FL

**Allied (Nova) Health Care**  
Ft. Lauderdale, FL

**APP Pharmacy**  
North Miami, FL

**Allied (Sunrise)  
Health Care**  
Ft. Lauderdale, FL

**Alaska Native Medical Center**  
Anchorage, Alaska

**Americare**  
Miami, FL

**Aventura Hospital  
& Medical Center**  
Aventura, FL

**Baptist Hospital**  
Miami, FL

**Bascom Palmer Eye Institute**  
Miami, FL

**Bay Pharmacy**  
St. Petersburg, FL

**Bay Pines VAMC**  
Bay Pines, FL

**Bay Pines VAMC-  
Outpatient Rx**  
Bay Pines, FL

**Boca Pharmacy &  
Home Health Center**  
Boca Raton, FL

**Boca Raton  
Community Hospital**  
Boca Raton, FL

**Columbia Miami  
Heart Institute**  
Miami Beach, FL

**Brickell Pharmacy**  
Miami, FL

**NSU Health Center at  
Ft. Lauderdale**  
Ft. Lauderdale, FL

**Broward Public Health  
NW Clinic**  
Ft. Lauderdale, FL

**Budget Pharmacy**  
Miami, FL

**Caremark Prescription  
Services**  
Ft. Lauderdale, FL

**Cedars Medical Center**  
Miami, FL

**Cleveland Clinic Hospital**  
Ft. Lauderdale, FL

**Clinical Pharmacology  
Services**  
Tampa, FL

**Colonial Health Care  
Services**  
Ft. Lauderdale, FL

**CompScript**  
Boca Raton, FL

**Coral Gables Hospital**  
Coral Gables, FL

**Coral Springs Medical Center**  
Coral Springs, FL

**Coram Health Care**  
Miami, FL

**Deering Hospital**  
Miami, FL

**Delray Community Hospital**  
Del Ray Beach, FL

**Doctors Hospital of Sarasota**  
Sarasota, FL

**Family First Medical Center**  
Miami, FL

**Fedco Pharmacy - Galleria**  
Ft. Lauderdale, FL

**Fedco Pharmacy - M.Beach**  
Miami Beach, FL

**Florida Hospital**  
Orlando, FL

**Florida Medical Center**  
Ft. Lauderdale, FL

**Florida Pharmacy  
Association**  
Tallahassee, FL

**Florida Poison  
Information Center**  
Tampa, FL

**Florida Poison  
Information Center**  
Miami, FL

**HCA Raulerson**  
Okeechobee, FL

**H. Lee Moffitt  
Cancer Center**  
Tampa, FL

**Broward County  
Public Health Unit**  
Ft. Lauderdale, FL

**Harrington's Professional  
Arts Pharmacy**  
Naples, FL

**Hollywood Medical Center**  
Hollywood, FL

**Holy Cross Hospital**  
Ft. Lauderdale, FL

**Home Medical Supply**  
Hollywood, FL

**Hospice of Palm  
Beach County**  
West Palm Beach, FL

**Humana City  
Center Pharmacy**  
Tampa, FL

**Imperial Point  
Medical Center**  
Ft. Lauderdale, FL

**Infusion Therapies  
of South Florida**  
Davie, FL

**InPhy Net Medical Manage-  
ment**  
Ft. Lauderdale, FL

**J.F.K. Medical Center**  
Atlantis, FL

**Jackson Memorial Hospital**  
Miami, FL

**James Haley VAMC**  
Tampa, FL

**Jerry's Drugs**  
Sunrise, FL

**Kendall Regional  
Medical Center**  
Miami, FL

- Lawnwood Regional Medical Center**  
Ft. Pierce, FL
- Lee Memorial Health Park**  
Ft. Myers, FL
- Lee Memorial Hospital**  
Ft. Myers, FL
- Managed Patient Care**  
Ft. Lauderdale, FL
- Martin Memorial Hospital**  
Palm Beach Gardens, FL
- Medchoice Pharmacy Service**  
Pembroke Pines, FL
- Medical Services Consortium**  
Miami, FL
- Medisave**  
Longwood, FL
- Memorial Regional Hospital**  
Hollywood, FL
- Memorial Hospital Pembroke**  
Pembroke Pines, FL
- Memorial Hospital West**  
Pembroke Pines, FL
- Mercy Hospital**  
Miami, FL
- Mercy Professional Pharmacy**  
Miami, FL
- Miami Children's Hospital**  
Miami, FL
- Miami Jewish Home and Hospital**  
Miami, FL
- Milton Medical and Drug Co.**  
Miami Beach, FL
- Moderne Pharmacy**  
Miami Beach, FL
- Morton Plant Mease Health Care**  
Clearwater, FL
- Mt. Sinai Medical Center**  
Miami Beach, FL
- My Pharmacy**  
Miami, FL
- Naples Community Hospital**  
Naples, FL
- Network Health Care Pharmacy**  
Winter Springs, FL
- NSU Drug Information Center**  
Ft. Lauderdale, FL
- North Broward Medical Center**  
Pompano Beach, FL
- North Ridge Medical Center**  
Ft. Lauderdale, FL
- North Shore Medical Center**  
Miami, FL
- Northside Medical Center Pharmacy**  
Miami, FL
- Option Care - Miami**  
Miami, FL
- Option Care - Naples**  
Naples, FL
- Owen Healthcare Manatee Memorial Hospital**  
Bradenton, FL
- Owen Home Infusion**  
Ft. Lauderdale, FL
- PCA (Instacare) Pharmacy**  
Davie, FL
- PCA Family Medical Center & Pharmacies**  
Miami, FL
- Palmetto General Hospital**  
Hialeah, FL
- Parkway Regional Medical Center**  
North Miami Beach, FL
- Payors Home Care**  
Pompano Beach, FL
- Pharmacy Corp. of America**  
Boynton Beach, FL
- Pill Box Pharmacy & Surgical**  
Pembroke Pines, FL
- Plantation General Hospital**  
Plantation, FL
- Post Haste Surgical and Pharmacy**  
Hollywood, FL
- Proxy Medical Pharmacy**  
Ft. Lauderdale, FL
- South Miami Hospital**  
South Miami, FL
- South Park Pharmacy**  
Coral Gables, FL
- Southwest Florida Regional Medical Center**  
Ft. Myers, FL
- Spectrum Pharmacy Services**  
St. Petersburg, FL
- St. Mary's Hospital**  
West Palm Beach, FL
- Surf Drugs & Home Health Care**  
Miami Beach, FL
- Symphony Pharmacy Services**  
Pompano Beach, FL
- THC of Hollywood**  
Hollywood, FL
- Tampa General Hospital**  
Tampa, FL
- The Chemist**  
Aventura, FL
- Ultima Rx**  
Coral Gables, FL
- United Prescription Center**  
Hollywood, FL
- University of Miami Health Services**  
Coral Gables, FL
- Vitalink Pharmacy Services**  
Deerfield Beach, FL
- Vencor Hospital**  
Coral Gables, FL
- VA Medical Center**  
Miami, FL
- Winships Prescription Center**  
North Palm Beach, FL
- West Boca Medical Center**  
Boca Raton, FL
- VA Medical Center**  
West Palm Beach, FL
- VA Outpatient Clinic**  
Ft. Myers, FL
- Your Druggist, Inc.**  
Coral Springs, FL

## College of Pharmacy Courses

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

### Biochemistry

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

**BCH 5200** (64-0-4)  
**Biochemistry**

Covers the structures, functions, metabolism of lipids, proteins, carbohydrates, nucleic acids, and body systems. Includes pharmaceutical application of material.

### Microbiology

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

**MIC 5200** (48-0-3)  
**Microbiology**

Covers the underlying nature of infectious microorganisms. Emphasizes cause, prevention and control of infectious diseases; immunology; mycology; parasitology; bacteriology; virology. Laboratory exercises identify microorganisms, antibiotic testing.

### Pharmacy Administration

**Chairman and Professor:** C.A. Rodowskas; **Professors:** M.S.Carvajal, E.S.Jaffrey, W.D.Hardigan; **Associate Professor Emeritus:** P.Magaljan; **Associate Professor:** D.L.Arneson; **Assistant Professors:** M.T.Assa, L.L.Lai

**PAD 3000** (16-0-0)  
**Dean's Hour I**

Introduction to Pharmacy education and profession.

**Prerequisite:** P-1 Standing

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

**PAD 3300** (32-0-2)  
**Pharmacy Administration I**

Applies business, economic, management principles in community, institutional pharmacy. Students participate in activities of an established organization and in a simulated community pharmacy.

**PAD 3320** (32-0-2)  
**Pharmacy Administration II**

Continuation of *Pharmacy Management I* with emphasis on managing an organization.

**PAD 4300** (48-0-3)  
**General Education I**

Psycho-social aspects of pharmacy with emphasis on communication.

**PAD 4320** (48-0-3)  
**General Education II**

Continuation of *General Education I*.  
**Prerequisites:** General Education I or permission

**PAD 4360** (32-0-2)  
**Pharmaceutical Marketing**

Overview of the health care delivery system, specific aspects of pharmaceutical marketing. Emphasizes dealing with general public and the pharmaceutical industry.

**PAD 4380** (48-0-3)  
**Pharmacy Law**

Federal law, state statutes, rules and regulations affecting pharmacy practice; selected aspects of general laws. Interpretation of laws affecting practice of community and institutional pharmacy.

**PAD 5300/7300** (48-16-4)  
**Experimental Design and Statistics**

Principles of statistics, experimental design.

## Pharmaceutical Sciences

**Chairman and Professor:** A. Malavé; **Professor:** R.E. Lindstrom; **Assistant Professors:** S.K. Das, R. Finkel, K.S. Flaharty, D.M. Gazze, K.J. Miller, A. Rathinavelu, C.S. Vattikonda; **Instructor:** S. Chattaraj

**PPS 3100 (48-0-3)**

### *Physical Pharmacy*

Theory, application of physicochemical principles to pharmaceutical systems.

**PPS 3140 (64-0-4)**

### *Pharmacokinetics*

Mechanisms, rates of absorption, disposition of drugs. Examines how the fate of drugs in the body is influenced by physiologic, biochemical processes. Discusses principles involved in drug absorption, distribution, metabolism, elimination.

**PPS 3160 (16-16-1)**

### *Pharmacy Calculations*

Study of fundamental mathematical principles employed, problems commonly encountered in compounding and dispensing pharmaceutical preparations.

**PPS 3200 (48-0-3)**

### *Pharmacodynamics I*

Study of physicochemical properties of drugs, principles of drug action, disposition, metabolism, analysis. Applies principles of Organic Chemistry to understanding drug action at molecular levels. Emphasizes determinants of drug absorption, distribution; introduces physiological receptors, the nature of drug-receptor interactions, drug metabolism and elimination.

**PPS 3201 (16-0-1)**

### *Introduction To Molecular Medicine*

Discusses frequently seen gene defects and diseases that originate at the molecular level. Covers basic principles of gene expression, recombinant DNA-derived pharmaceuticals, modern diagnostic and therapeutic approaches: gene therapy, immunotherapy,

and molecular diagnosis, that are currently used to fight genetically-determined diseases.

**PPS 3220 (80-0-5)**

### *Pharmacodynamics II*

Continuation of *Pharmacodynamics I* emphasizes cardiovascular agents, drugs affecting the endocrine system, autocooids and antithrombotic, anticoagulant and thrombolytic agents.

**Prerequisites:** Pharmacodynamics I

**PPS 3221 (16-0-1)**

### *Current Topics In*

### *Pharmaceutical Sciences*

Special topics will be covered by faculty and visiting scientists. The goal of each topic is to provide the student with an understanding of, and appreciation for, current problems and procedures underlying the Pharmaceutical Science discipline.

**PPS 3223 (32-0-2)**

### *Drugs of Abuse*

Pharmacology of drugs of abuse: types of substances abused, patterns of abuse, methods/routes of drug abuse, pertinent toxicokinetics, pharmacologic/toxicologic mechanism(s), clinical manifestations of intoxication and withdrawal, treatment of drug intoxication/withdrawal, societal impact of drug abuse.

**PPS 4140 (32-48-3)**

### *Pharmaceutics*

Continuation of *Physical Pharmacy PPS 3100*. Principles, processes and techniques applied to Pharmaceutical systems, including preparation, use, assessment of pharmaceutical dosage forms. Emphasizes concepts from pharmaceutical dosage form design to dosage and regimen.

**Prerequisites:** Physical Pharmacy, Pharmacy Calculations

**PPS 4180 (32-48-3)****Prescription Practice**

Applies scientific, legal, ethical principles to the compounding, dispensing of medicinal agents used in modern medical practice. Analysis, interpretation, evaluation of prescription products in various forms.

**Prerequisites:** Pharmacodynamics I, II, & III, Therapeutics I

**Co-requisites:** Pharmacodynamics IV, Therapeutics II

**PPS 4240 (64-0-4)****Pharmacodynamics III**

Continuation of *Pharmacodynamics II* emphasizes drugs acting on central nervous system; vitamins and minerals. After 1996, four semester hours.

**Prerequisites:** Pharmacodynamics I

**PPS 4260 (48-0-3)****Pharmacodynamics IV**

Continuation of *Pharmacodynamics III*. Antineoplastic agents, locally active agents, biological and diagnostic agents, toxicology.

**Prerequisites:** Pharmacodynamics I

**PPS 4141 (32-0-2)****Advances In Drug Delivery**

Methods of developing pharmaceutical dosage forms and their evaluation, novel drug delivery systems, various routes of drug administration, the science and technology of controlled drug delivery, targeting of drugs and bioactive agents, dosage form development using novel polymers and biomaterials.

**PPS 4241 (32-0-2)****Advanced CNS Pharmacology**

This review of recent developments in the understanding of CNS neurotransmitter/neuropeptide receptor systems emphasizes their relevance to the actions of psychopharmacological agents, focuses on the neuroanatomy, neurophysiology, and pathophysiology of specific neurotransmitter/neuropeptide systems, and examines the interaction of these systems in the expression of CNS effects.

**PPS 3225 (16-0-1)****Principles of Neuropharmacology:****The Electrical Properties of Cell Membranes**

Principles of membrane transport and bioelectricity, new developments in the areas of membranes and synaptic transmission, recent molecular biological approaches and patch-clamp techniques that have revolutionized the understanding of membrane channels. These principles form the necessary foundation for the understanding of many physiological processes and systems, as well as their regulation.

**PPS 4990 (0-144-3)**

or (0-96-2)

**Undergraduate Research**

Individual work will be performed by undergraduate students under the direction and supervision of one or more faculty members. In conjunction with the professor, the students will be involved in planning and executing an approved research project using basic techniques and scientific research.

**PPS 5100/7100 (64-0-4)****Clinical Pharmacokinetics and Interpretation of Laboratory Data**

Applies concepts and techniques of biopharmaceutics, pharmacokinetics to the design of individualized drug dosage regimens. Covers hepatic and renal impairment, effects of other diseases, drug interactions. After Winter, 1997, three semester hours.

**Prerequisites:** PD-3 standing

**Pharmacy Practice**

**Chairman & Associate Professor:**

S.A.Swigart; **Associate Professors:**

C.Aceves-Blumenthal, L.Deziel-Evans; **Assistant Professors:**

L.Alfred, G.Armayor,

T.Barlows, D.Beehrle, B.Bernstein,

K.Daniel, H.Forbes, L.Frenzel-Shepherd,

M.Glover, K.Graham, C.Kaminski, C.Luque,

N.Mack, J.Ray, M.Robinson, J.Serrano,

J.Spillane, M.Vazquez-Ortiz; **Instructors:**

L.Beeler, C.Bello, C.Jean

- PPD 4400** (64-0-4)  
**Therapeutics I**  
Principles and application of rational pharmacotherapeutics for various disease states, including drug selection, monitoring of drug therapy. Influences of therapy include, where applicable, culturally derived health benefits, age-related issues for appropriate drug therapies.  
**Prerequisites:** Pathophysiology I & II, Pharmacodynamics II
- PPD 4420** (64-0-4)  
**Therapeutics II**  
Continuation of *Therapeutics I* emphasizes infectious, neoplastic, rheumatic diseases, contraceptives, drug abuse, pain management.  
**Prerequisites:** Microbiology, Pharmacodynamics III
- PPD 4460 /7460** (16-16-2)  
**Physical Assessment**  
Covers clinical laboratory procedures, data interpretation, patient interviewing, patient progress charting, medication profiling, drug-induced problems, patient advisement.
- PPD 5440** (96-0-6)  
**Advanced Pharmacotherapeutics**  
Continuation of *Therapeutics*. Difficult therapeutic challenges, emerging therapeutic modalities. **Prerequisites:** PD-3 standing
- PPB 5500 / PPD 5500** (0-320-7)  
**Externship I**  
Eight-week, off-campus rotation in supervised community pharmacy. Applies didactic knowledge in non-simulated environments, development of competency in pharmacy practice, further development of communication skills. Full-time (40 hr/wk) rotation emphasizes distributive, management aspects of pharmacy. **Prerequisites:** Successful completion of all didactic course work
- PPB 5500 / PPD 5520** (0-320-7)  
**Externship II**  
Continuation of *Externship I* for health-center pharmacy experience.
- PPD 5600/7600** (32-0-2)  
**Drug Literature Evaluation**  
Sources of drug information, principles of drug literature evaluation, answering drug information questions, analyzing, evaluating drug literature, advertising.  
**Prerequisites:** Therapeutics I & II or permission
- PPD 7400** (48-0-3)  
**Advanced Therapeutics I**  
Principles and application of pharmacotherapeutics for various disease states. Includes drug selection, monitoring drug therapy, culturally derived health benefits and practice, age-related issues, current issues in appropriate drug therapies. For Postgraduate Pharm.D. students.  
**Prerequisite/Co-requisite:** Advanced Pathophysiology I
- PPD 7420** (60-0-4)  
**Advanced Therapeutics II**  
Continuation of *Advanced Therapeutics I* emphasizes infectious, neoplastic and rheumatic diseases; contraceptives, drug abuse, hospice, pain management. For Postgraduate Pharm.D. students.  
**Prerequisite:** Advanced Pathophysiology I  
**Co-requisite:** Advanced Pathophysiology II
- Clerkship II Rotations**  
Four modules: Ambulatory Care, Drug Information, Geriatric Care, Internal Medicine. Each consists of four-week, full-time (40 hr/wk) off-campus rotations in a supervised pharmacy practice emphasizing nondistributive, clinical aspects of pharmacy practice. Students apply knowledge, develop competency in pharmacy practice, enhance knowledge of therapeutic management.  
**Prerequisites:** Successful completion of all didactic course work

**PPB 5620** (0-160-3.5)**PPD 6620/8620****Internal Medicine**

Presents common diseases: hypertension, congestive heart failure, diabetes, renal failure, etc. Students participate as members of a health care team to develop effective, least toxic, most economical pharmacological regimens for elderly patients.

**PPB 5640** (0-160-3.5)**PPD 6640/8640****Ambulatory Care**

Interaction with ambulatory patients. Students participate as members of a health care team to encourage drug therapy through extensive patient monitoring, obtain medical, drug information directly from patients during interviews.

**PPB 5660** (0-160-3.5)**PPD 6660/8660****Geriatric Care**

Emphasizes differences in providing care for the elderly as opposed to younger individuals. Students participate as members of a health care team to develop effective, least toxic, most economical pharmacological regimens for elderly patients.

**PPB 5680** (0-160-3.5)**PPD 6680/8680****Drug Information**

Covers drug information retrieval, formulation of responses, preparation of drug evaluations, cost containment studies, drug utilization evaluations, and other aspects of drug information for health care practitioners and the public.

**Clerkship III** (0-640-14)**(Four rotations)**

Four clerkships, each 3.5 credit hours or 160 clock hours. Off-campus rotations in supervised practice environments emphasize nondistributive, clinical aspects of pharmacy practice in a specialty area, allowing stu-

dents to specialize, obtain greater practice experience. Specialty rotations may include but are not limited to: informatics, administration, pharmacoeconomics, pharmacokinetics, infectious disease, nutritional support, psycho-pharmacy, pediatrics, rheumatology, surgery, critical care, cardiology, neonatology, immunology and clinical research where available.

**Prerequisites:** Successful completion of all didactic course work

**Physiology**

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

**PHY 5210** (77-9-5)**Anatomy and Pathophysiology I**

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

**PHY 5220** (77-9-5)**Anatomy and Pathophysiology II**

Continuation of *Anatomy and Pathophysiology I* covers cardiovascular, respiratory, renal, gastrointestinal, metabolic, endocrine, reproductive systems.

**Prerequisites:** Anatomy & Pathophysiology I, or permission

**PHY 7210** (48-0-3)**Advanced Pathophysiology I**

Postgraduate Pharm.D. students gain physiological understanding of disease processes, cellular physiology, neurophysiology, hematology, immunology, cardiovascular physiology, pertinent disorders in each area.

**Prerequisites:** Admission to Postgraduate Pharm.D. program



**PHY 7220****(48-0-3)****Advanced Pathophysiology II**

Continuation of *Advanced Pathophysiology II*. Respiratory physiology, renal physiology, digestion, metabolism, endocrine, reproductive physiology, infectious diseases.

**Prerequisites:** Advanced Pathophysiology I or permission

**Student Organizations***Student Council*

Student Council is the official voice of all students. The organization is open to all students, and welcomes proposals and participation from the entire student body. Its responsibilities include collecting and expressing student opinion, dispensing funds for student activities, acting as liaison for the student body, pro-

moting pharmacy, supporting club and class activities, and working to improve the quality of life for students at the College of Pharmacy.

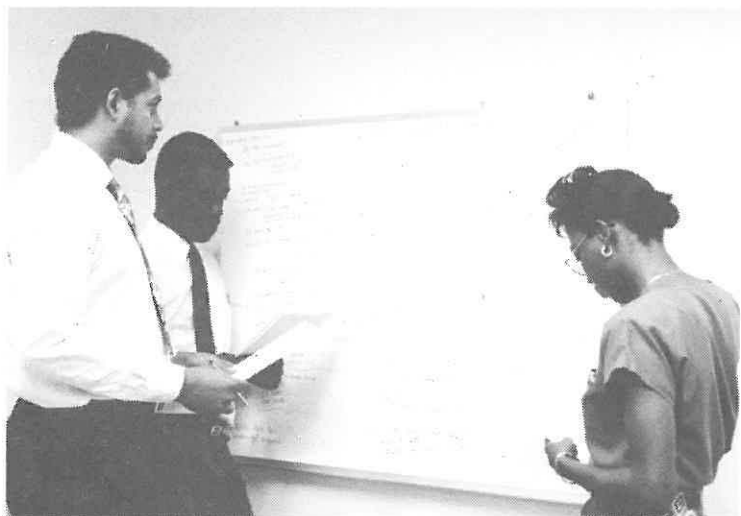
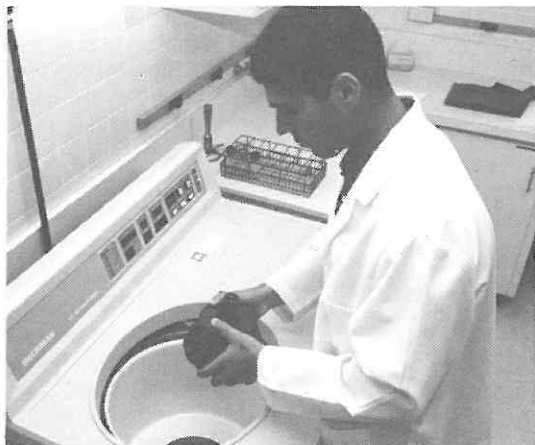
*Other*

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

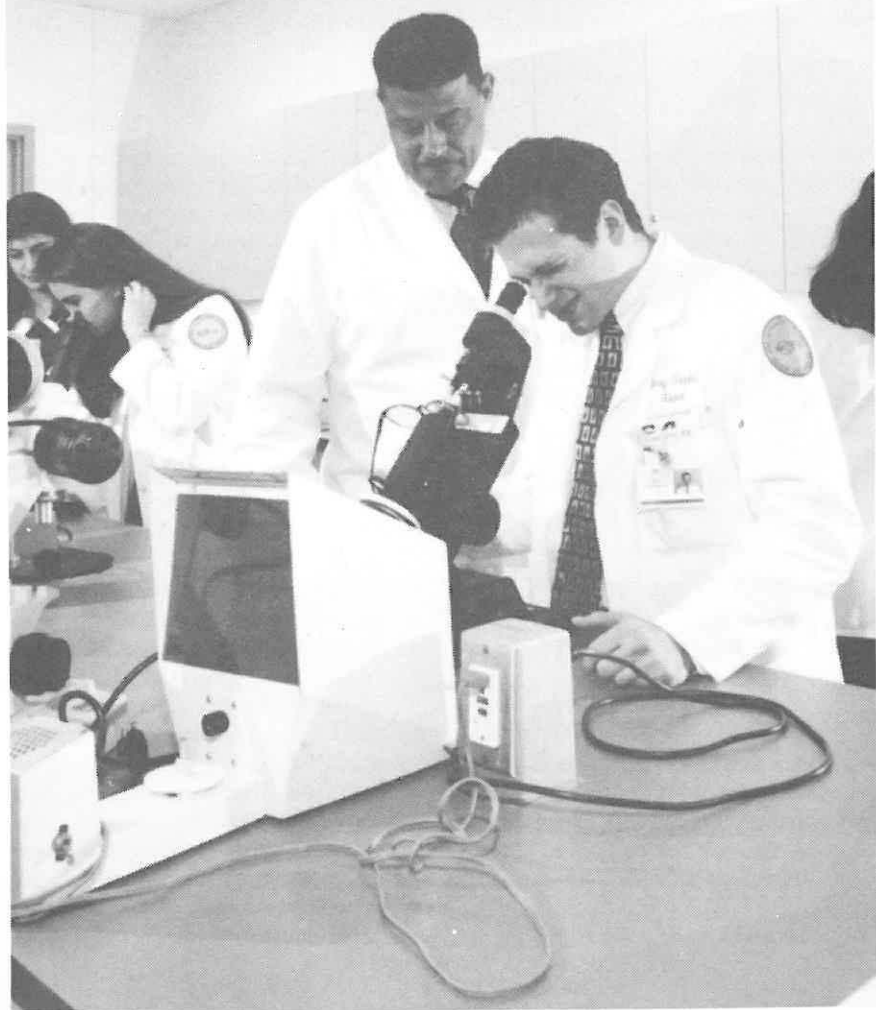
- Academy of Students of Pharmacy
- Rho Chi
- Phi Lambda Sigma
- Alpha Zeta Omega (Inactive)
- Phi Delta Chi
- National Community Pharmacists Association - Student Chapter
- Florida Society of Health-System Pharmacists - Student Chapter







# College of Optometry



## **Mission Statement**

The mission of the College of Optometry is to educate and train optometric physicians to practice at the highest level of proficiency, integrity and professionalism, and to provide a multidisciplinary environment that encourages and supports lifelong learning, scholarship, and community service.



**David S. Loshin,  
O.D., Ph.D.  
Dean**

## Administration

David S. Loshin, O.D., Ph.D., F.A.A.O., Dean  
 Terrence Ingraham, O.D., F.A.A.O., Associate Dean for Student Affairs  
 Michael Fendick, O.D., Ph.D., F.A.A.O., Chair, Research and Graduate Education  
 Scott Schatz, O.D., Ph.D., F.A.A.O., Chair, Basic Sciences  
 Susanna Tamkins, O.D., Chair, Optometric Clinical Sciences  
 Jack Wolfe, O.D., Chair, Clinics

## Optometry

One of man's most precious gifts is sight, and the optometric physician is dedicated to the preservation and enhancement of this gift. The optometric physician, through academic and clinical training, is able to examine, diagnose, treat and manage disorders and diseases of the visual system and associated structures. Optometry is constantly evolving as a profession to enable optometric physicians to broaden their scope of care as primary care practitioners. The profession of optometry offers many challenges and rewards to those willing to devote themselves to serving others through a lifetime of study and dedication to excellence.

Today's optometric physicians practice in urban and rural communities throughout the nation, either in individual or in group practices, in hospital settings, centers for vision research, and in the public health service. They also take part in teaching, research and public health. Nova Southeastern University College of Optometry stands alone as the only optometric academic institution in the state of Florida. Furthermore, the College benefits from the integrated multidisciplinary health care programs of the University's Health Professions Division,

represented by optometry, osteopathic medicine, dental medicine, pharmacy, and allied health. Nova Southeastern University takes pride in the optometric education program, which provides strong didactic and clinical educational experience for graduates.

## Accreditation

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

## Requirements for Admission

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

1. Prior to matriculation, applicants must

have completed a minimum of 90 semester hours of specified course work and/or a baccalaureate degree at an accredited college or university with a 2.5 cumulative GPA.

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

|   | <b>Semester Hours</b> |
|---|-----------------------|
| Calculus                                | 3                     |
| Physics, including laboratory           | 8                     |
| Biology, including laboratory           | 8                     |
| General chemistry, including laboratory | 8                     |
| Organic chemistry, including laboratory | 4                     |
| Social and Behavioral sciences          | 12                    |
| Humanities                              | 3                     |
| English composition                     | 3                     |
| English literature                      | 3                     |
| <i>Courses strongly recommended</i>     |                       |
| Statistics                              | 3                     |
| Microbiology, including laboratory      | 3                     |

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

Preference will be given to students with a cumulative GPA of 2.8 or higher. However, the Dean is empowered to evaluate the total qualifications of every student and to consider any unusual circumstances.

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.

- All applicants are required to submit official Optometry Admission Test scores.

## **Application Procedure**

- The admissions office processes applications on a "rolling" basis. The applica-

tion form and a non-refundable fee of \$50 should be returned as soon as possible, but no later than April 1 in order to be considered for admission in August.

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

## *Transcripts*

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

## *Letters of Evaluation*

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

## *Interview*

A personal interview will be an integral part of the admission process; however, being granted an interview is not a guarantee of admission. It should also be clearly understood that not all applicants will be granted an interview. Those selected for an inter-

view will be notified of the date and time of such interview by the Office of Admissions.

## Tuition and Fees

1. Anticipated tuition for 1998-99 (subject to change by the Board of Trustees without notice): \$14,900 for Florida students and \$18,900 for out-of-state residents. A student activities fee of \$100 each year is required of all students. Eligible students must request in-state tuition on application. For tuition purposes, a student's Florida residency status (in-state or out-of-state) will be determined at initial admission and will remain the same throughout the entire enrollment of the student at NSU. Accordingly, tuition will not be adjusted as a result of any change in residency status after initial enrollment registration.
2. Acceptance Fee: \$100. This fee is required to reserve the accepted applicant's place in the entering first-year class. This advance payment will be deducted from the tuition payment due on Registration Day, but is not refundable in case of withdrawal. It is payable within two weeks of the applicant's acceptance.
3. Deposit: \$400, due March 15, under the same terms as the Acceptance Fee.
4. Pre-registration Fee: \$500, due May 15, under the same terms as the Acceptance Fee.
5. Student Activities Fee: \$100, payable at each fall registration.

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

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

living expenses, books and equipment, travel and miscellaneous expenses.

## Dual Admissions Program

### Undergraduate/O.D. Program

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

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

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

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

## Financial Aid

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

## Transfer Students

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

The applicant must:

1. Make a formal application to the NSU College of Optometry Office of Admissions
2. Meet all admissions requirements to NSU College of Optometry, which include submitting official transcripts of all college work (including optometric transcripts), Optometry Admission Test (OAT) scores, National Board (NBEO) scores, and letters of evaluation. The applicant must be interviewed.
3. Be in good standing at the transferring institution as documented by a letter from the Dean of the transferring institution
4. Supply one letter of recommendation from a faculty member of the transferring institution
5. Supply a written statement outlining reasons for request for transfer

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

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

## Promotion, Suspension, Dismissal and Re-Admission

The policies for promotion, suspension, dismissal and re-admission are outlined in

the College of Optometry Student Handbook, which is revised, updated and distributed annually to all optometry students.

## Requirements for Graduation

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

1. Be of good moral character
2. Have satisfactorily complete the program of study required for the degree, including all assignments, with at least 157 semester hours
3. Have satisfactorily met all financial and library obligations
4. Have taken Parts I and II of the National Board Examination, documented by sending a copy of test scores to the Dean or his designee
5. Have obtained a Baccalaureate degree (*The College of Optometry awards a baccalaureate degree to those individuals who do not possess a baccalaureate degree and who complete 90 credit hours of undergraduate work, plus two years of optometric study at Nova Southeastern University.*)
6. Attend in person the rehearsal and commencement program at which time the degree is conferred.

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

## Course of Study

The Doctor of Optometry degree is awarded after successful completion of four years of professional study. The didactic focus of the first two years is in the basic sciences, including biochemistry, microbiol-

ogy, anatomy, physiology, pharmacology, optics and the vision sciences. Concurrently, students initiate the study of general optometric theory and methods, general pathology and the diagnosis, treatment and management of binocular vision anomalies and ocular disease in preparation for direct pa-

tient care in our primary care clinic.

In the third academic year students study optics, contact lenses, pediatric, geriatric, and rehabilitative optometry and develop a deeper understanding and ability to diagnose, treat and manage increasingly complex conditions concerning anomalies of vision de-

## CURRICULUM OUTLINE

### First Year

| First Semester     |   | Lecture    | Laboratory | Semester Hours |
|--------------------|---|------------|------------|----------------|
| ANA 5310           | Histology & Embryology                    | 18         | 0          | 1              |
| ANA 5320           | Gross Anatomy:<br>Head and Neck I         | 54         | 36         | 4              |
| BIC 5300           | Biochemistry                              | 54         | 0          | 3              |
| MIC 5300           | Microbiology                              | 54         | 0          | 3              |
| OCS 5100           | Public Health I:<br>History of Optometry* | 18         | 0          | 1              |
| OCS 5110           | Optometric Theory &<br>Methods I          | 36         | 72         | 4              |
| OVS 5110           | Geometrical Optics                        | 72         | 36         | 5              |
| OVS 5300           | Vision Testing & Technology*              | <u>18</u>  | <u>18</u>  | <u>1.5</u>     |
| <b>Total Hours</b> |   | <b>324</b> | <b>162</b> | <b>22.5</b>    |

### First Year

| Second Semester    |  | Lecture    | Laboratory | Semester Hours |
|--------------------|--|------------|------------|----------------|
| ANA 5340           | General Neuroanatomy*                      | 36         | 36         | 3              |
| OCS 5120           | Public Health II:<br>Patient Communication | 36         | 0          | 2              |
| OCS 5130           | Optometric Theory<br>and Methods II        | 36         | 54         | 3.5            |
| OVS 5120           | Visual Optics                              | 36         | 18         | 2.5            |
| OVS 5210           | Ocular Anatomy                             | 36         | 0          | 2              |
| OVS 5130           | Physical Optics                            | 36         | 18         | 2.5            |
| OVS 5310           | Visual Neurophysiology*                    | 36         | 0          | 2              |
| OVS 6340           | Ocular Motility*                           | 36         | 0          | 2              |
| PHS 5300           | General Physiology                         | <u>54</u>  | <u>0</u>   | <u>3</u>       |
| <b>Total Hours</b> |  | <b>342</b> | <b>108</b> | <b>22.5</b>    |

### Second Year

| First Semester     |   | Lecture    | Laboratory | Semester Hours |
|--------------------|---|------------|------------|----------------|
| OCS 6140           | Optometric Theory<br>& Methods III            | 36         | 54         | 3.5            |
| OCS 6210           | Ocular Disease I:<br>Anterior Segment         | 54         | 0          | 3              |
| OCS 6302           | Vision Screening I                            | 0          | 18         | 0.5            |
| OVS 6140           | Ophthalmic Optics I                           | 54         | 36         | 4              |
| OVS 6220           | Ocular Physiology                             | 36         | 0          | 2              |
| OVS 6320           | Psychophysics:<br>Monocular Sensory Processes | 72         | 0          | 4              |
| PCO 6310           | General Pharmacology                          | 72         | 0          | 4              |
| PTH 6300           | General Pathology                             | <u>54</u>  | <u>0</u>   | <u>3</u>       |
| <b>Total Hours</b> |   | <b>378</b> | <b>108</b> | <b>24</b>      |

\* = nine weeks



*Second Year*

| <b>Second Semester</b> |   | <b>Lecture</b> | <b>Laboratory</b> | <b>Semester Hours</b> |
|------------------------|---|----------------|-------------------|-----------------------|
| OCS 6130               | Public Health III: Health Care Systems & Agencies | 36             | 0                 | 2                     |
| OCS 6160               | Optometric Theory & Methods IV                    | 36             | 54                | 3.5                   |
| OCS 6220               | Ocular Disease II: Posterior Segment              | 54             | 0                 | 3                     |
| OCS 6312               | Vision Screening II                               | 0              | 18                | 0.5                   |
| OCS 7240               | Public Health IV: Epidemiology                    | 18             | 0                 | 1                     |
| OCS 7510               | Anomalies of Binocular Vision I                   | 36             | 36                | 3                     |
| OVS 6150               | Ophthalmic Optics II                              | 54             | 36                | 4                     |
| OVS 6350               | Introduction to Binocular Vision*                 | 36             | 0                 | 2                     |
| PCO 6312               | General Pharmacology II*                          | 27             | 0                 | 1.5                   |
| PCO 6320               | Ocular Pharmacology*                              | 27             | 0                 | 1.5                   |
| <b>Total Hours</b>     |   | <b>324</b>     | <b>144</b>        | <b>22.0</b>           |

\* = nine weeks

*Third Year*

| <b>Summer Semester</b> |                       | <b>Lecture</b> | <b>Laboratory</b> | <b>Semester Hours</b> |
|------------------------|-----------------------|----------------|-------------------|-----------------------|
| OCS 7312               | Clinical Conference   | 0              | 20                | 0.5                   |
| OCS 7322               | Primary Care Clinic I | 0              | 80                | 2                     |
| <b>Total Hours</b>     |                       |                | <b>100</b>        | <b>2.5</b>            |

*Third Year*

| <b>First Semester Hours</b> |   | <b>Lecture</b> | <b>Laboratory</b> | <b>Semester Hours</b> |
|-----------------------------|---|----------------|-------------------|-----------------------|
| OCS 7230                    | Ocular Disease III: Ocular/Systemic Disease | 54             | 0                 | 3                     |
| OCS 7260                    | Clinical Medicine                           | 36             | 18                | 2.5                   |
| OCS 7332                    | Primary Care Clinic II                      | 0              | 144               | 2                     |
| OCS 7430                    | Optometric Economics I                      | 36             | 0                 | 2                     |
| OCS 7520                    | Contact Lenses I                            | 36             | 36                | 3                     |
| OCS 7530                    | Anomalies of Binocular Vision II            | 36             | 36                | 3                     |
| OCS 7570                    | Geriatric Optometry                         | 18             | 0                 | 1                     |
| <b>Total Hours</b>          |   | <b>216</b>     | <b>252</b>        | <b>16.5</b>           |

*Third Year*

| <b>Spring Semester</b> |                                      | <b>Lecture</b> | <b>Laboratory</b> | <b>Semester Hours</b> |
|------------------------|--------------------------------------|----------------|-------------------|-----------------------|
| OCS 7250               | Ocular Disease IV: Neuro-Optometry   | 54             | 0                 | 3                     |
| OCS 7342               | Primary Care Clinic III              | 0              | 144               | 2                     |
| OCS 7440               | Optometric Economics II              | 36             | 36                | 3                     |
| OCS 7540               | Contact Lenses II                    | 36             | 36                | 3                     |
| OCS 7550               | Learning Disabilities                | 36             | 0                 | 2                     |
| OCS 7560               | Rehabilitative Optometry: Low Vision | 36             | 36                | 3                     |
| OCS 8190               | Environmental Optometry              | 18             | 0                 | 1                     |
| <b>Total Hours</b>     |                                      | <b>216</b>     | <b>252</b>        | <b>17</b>             |

*Fourth Year*

The semester sequence for the clinical rotations below may vary for students; however, all clinical rotations are required

| <b>Summer Semester</b> |                         | <b>Lecture</b> | <b>Laboratory</b> | <b>Semester Hours</b> |
|------------------------|-------------------------|----------------|-------------------|-----------------------|
| OCS 8352               | Primary Care Externship | 0              | 640               | 10                    |
| <b>Total Hours</b>     |                         | <b>0</b>       | <b>640</b>        | <b>10</b>             |

| Fall Semester               |                               |   | Lecture    | Laboratory | Semester Hours |
|-----------------------------|-------------------------------|---|------------|------------|----------------|
| Secondary Care Externships: |                               |   |            |            |                |
| OCS 8512                    | Cornea & Contact Lens*        | 0 | 240        | 3.5        |                |
| OCS 8514                    | Pediatric & Binocular Vision* | 0 | 240        | 3.5        |                |
| OCS 8516                    | Vision Rehabilitation*        | 0 | <u>200</u> | <u>3</u>   |                |
| <b>Total Hours</b>          |                               |   | <b>680</b> | <b>10</b>  |                |

\*Students rotate through the specialties

| Spring Semester    |                          |          | Lecture     | Laboratory  | Semester Hours |
|--------------------|--------------------------|----------|-------------|-------------|----------------|
| OCS 8612           | Tertiary Care Externship | <u>0</u> | <u>640</u>  | <u>10</u>   |                |
| <b>Total Hours</b> |                          |          | <b>0</b>    | <b>640</b>  | <b>10</b>      |
| <b>Total</b>       |                          |          | <b>1800</b> | <b>3824</b> | <b>157</b>     |

velopment and ocular disease. Additionally, students begin training in the primary care clinic by providing direct patient eyecare.

The fourth year of the academic program is entirely clinical with intensive training in University-based or affiliated primary, secondary and tertiary care facilities. These include contact lens, pediatrics and binocular vision, low vision and geriatric clinics. Students also receive training in external medical/surgical tertiary care settings. At the completion of the four-year academic program our students have been trained to be optometric physicians capable of providing the best of patient eye care.

## College of Optometry Courses

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

### Anatomy

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

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

#### Histology & Embryology

General principles of human histology and embryology with detailed histologic view of each tissue of the body.

**ANA 5320** (54-36-4)

#### Gross Anatomy: Head and Neck

Presentation of human body structure. Discusses each body system from a cellular, tissue and organ perspective. Detailed examination of head and neck regions of the body. Intensive laboratory work studying prosected cadaver material.

**ANA 5340** (36-18-2.5)

#### General Neuroanatomy

Lecture and laboratory study of gross structures of the brain and spinal cord and the functional relationships among their parts. Emphasizes the major motor and sensory pathways and integrative mechanisms of the central nervous system.

**OVS 5210** (36-0-2)

#### Ocular Anatomy

Gross and microscopic anatomy of the eye and adnexa. Relationships between tissues; the vascular supply to the eye; the anatomy of the visual pathway; the embryonic origin of ocular tissues. Eye dissections teach the functional relations between ocular tissues.

### Biochemistry

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

**BIC 5300** (54-0-3)

#### Biochemistry

Biochemistry of metabolic pathways; visual, digestive, muscular, respiratory, endocrine

systems. Protein structure and chemistry, lipids, nucleic acids, carbohydrates, more complex molecules. Clinical correlations illustrate the basic biochemical mechanisms.

## Microbiology

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

**MIC 5300** (54-0-3)

### Microbiology

Immunology, bacteriology, mycology, parasitology, virology. Underlying systematics and genetics of parasites, host-parasite interactions. Etiology, demography and clinical characteristics of disease manifestations that an optometrist may encounter.

## Optometric Basic Sciences

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

**OVS 5110** (72-36-5)

### Geometrical Optics

Principles of geometric optics with examples and optometric applications. Study of linear propagation, reflection, refraction, prisms, thin lenses alone and in combination, thick lenses, lens aberrations, magnifiers, ophthalmic instruments.

**OVS 5120** (36-18-2.5)

### Visual Optics

The eye as optical system: optical and physical components of the eye. Schematic eye models, refractive error correction, dioptics of the eye, stimulus to accommodation, retinal image size and quality, purkinje images, entoptic phenomena, presbyopia, aphakia, intra-ocular implants, ocular radiation effects.

**OVS 5130** (36-18-2.5)

### Physical Optics

Wave and quantum optics, with applications, principles, examples, laboratory demonstra-

tion. Wave equations, interference, diffraction, coherence, polarization, dispersion, photometry, spectroscopy, lasers and holograms.

**OVS 5300** (18-0-1)

### Vision Testing and Technology

Computers, telecommunication, the Internet, their use in optometry; their application in signal analysis, systems theory, vision testing.

**OVS 5310** (36-0-2)

### Visual Neurophysiology

Concepts of visual neurophysiology needed to understand normal visual perception, probable source of visual symptoms associated with various eye and CNS disorders, underlying principles of new clinical diagnostic tests for eye and CNS disease and current neurophysiological research as it relates to the clinical practice of optometry.

**OVS 6140** (54-36-4)

### Ophthalmic Optics I

Applies knowledge of geometrical and physical optics to ophthalmic equipment, ophthalmic lenses and prisms, frames, and spectacle prescriptions. Selection, fitting, ordering, dispensing of spectacles

**OVS 6150** (54-36-4)

### Ophthalmic Optics II

Design and construction of multi-focal lenses, guidelines for frame and lens choices, alignment and fitting procedures for various prescription requirements. Students gain hands-on experience in selecting, ordering, fabricating, fitting and dispensing spectacles.

**OVS 6320** (72-0-4)

### Psychophysics/Monocular Sensory Processes

Visual thresholds, classical threshold measurement techniques, signal detection theory. Spatial and temporal aspects of vision, theories of color vision, color vision testing, relationship of vision science to clinical testing, diagnosis, treatment.

**OVS 6340 (36-0-2)****Ocular Motility**

Survey of movements of the extraocular muscles, ciliary muscle, iris and muscles of the ocular adnexa. Measurement techniques, types of eye movements, neurological control systems involved in moving the eyes, clinical syndromes. Emphasizes interaction of eye muscles and neurological signals.

**OVS 6350 (36-0-2)****Introduction to Binocular Vision**

Sensory aspects of binocular vision, neurophysiological foundations. Visual direction, the horopter, binocular fusion, rivalry, stereopsis, aniseikonia, motion in depth, binocular visual neurophysiology, normal development of binocular vision, strabismic and anisometropic amblyopia, normal and anomalous retinal correspondence. Clinical, research-oriented tests and treatments for abnormal binocular visual function.

**Optometric Clinical Sciences**

**Professors:** S. Crossman, N.S. Gorman,

M. McKay, S. Schatz, M. Silverman; **Associate Professors:** R. Hutchinson,

C. Morrison, P. Oliver, K. Reed, J. Rumsey,

J. Sowka, H. Wagner, J. Wolfe; **Assistant Professors:** M. Bergman, R. Coulter,

A. Janoff, C. Jaworski, A. Kabat,

J. Pizzimenti, S. Tamkins, C. Woodruff,

A. Woods; **Instructors:** G. Beasley,

A. Patrick, R. Smith, S. Thomas

**OCS 5100 (18-0-1)****Public Health I: History of Optometry**

The role of optometry in health care; ethical, moral, legal obligations. Roles of health agencies, professional organizations.

**OCS 5110 (36-72-4)****Optometric Theory & Methods I**

Concepts of refractive disorders, binocularity and ocular diseases. Performing an eye

examination, patient histories, use of terminology, data collection.

**OCS 5120 (36-0-2)****Public Health II: Patient Communication**

Regulating agencies, code of ethics, modes of practice, associations of the optometric profession, legal issues and liability, the doctor/patient relationship.

**OCS 5130 (36-54-3.5)****Optometric Theory & Methods II**

Concepts of near and distance vision, vision testing. Evaluative techniques, use of binocular indirect ophthalmoscopy.

**OCS 6130 (36-0-2)****Public Health III: Health Care****Systems & Agencies**

Review of the health care system and delivery of care; current public health issues; the role of local, state, federal regulatory agencies and their policies. Includes principles of epidemiology, biostatistics, demographics.

**OCS 6140 (36-54-3.5)****Optometric Theory & Methods III**

Testing procedures, indications for application: gonioscopy, dynamic retinoscopy, foreign body and rust ring removal, tear evaluation, visual fields overview, perimetry testing, anterior segment photography, cycloplegic refraction.

**OCS 6160 (36-54-3.5)****Optometric Theory and Methods IV**

Advanced testing procedures, indications for their application: 3-mirror fundus evaluation, ultrasound techniques, 4-mirror gonioscopy, automated visual field theory, posterior segment photography

- OCS 6302** (0-16-1)  
**Vision Screening I**  
Students provide vision screening tests on various school-age populations, gain experience with patients, set up a vision screening.
- OCS 6312** (0-16-1)  
**Vision Screening II**  
Continuation of *Vision Screening I*.
- OCS 7430** (36-0-2)  
**Optometric Economics I**  
Explores career path decisions: economics, practice management, location, financing methods, office design, policies and billing procedures. Marketing, use of assistants, patient management from first phone call to placement in inactive file.
- OCS 7240** (18-0-1)  
**Public Health IV: Epidemiology**  
Epidemiologic principles relating to eye diseases, their applications in a clinical setting. Incidence, prevalence, mortality rates, statistical analysis methodologies, reporting.
- OCS 7312** (0-20-0.5)  
**Clinical Conference**  
Adjunct to Primary Care Clinic I. Review and discussion of patient data leading to proper clinical diagnosis and patient management. Lectures, small group discussions emphasize integration of knowledge gained in didactic courses with clinical case examples.
- OCS 7322** (0-80-1)  
**Primary Care Clinic I**  
Patient examinations in a primary care setting under supervision of residents, faculty: refractive conditions, visual system disorders. Grand rounds, journal reviews, case reports, advanced ophthalmic techniques.
- OCS 7332** (0-144-2)  
**Primary Care Clinic II**  
Continuation of *Primary Care Clinic I*.
- OCS 7342** (0-144-2)  
**Primary Care Clinic III**  
Continuation of *Primary Care Clinic II*.
- OCS 7440** (36-36-3)  
**Optometric Economics II**  
Employment opportunities, third-party billing, competing for managed care contracts, selecting a lawyer, accountant, financial advisor. Analyze balance sheets, negotiate bank loans, calculate capitation fees.
- OCS 7510** (36-36-3)  
**Anomalies of Binocular Vision I**  
Introduces the use of vision therapy to treat accommodative, heterophoria and eye movement disorders. Discusses vision development, accommodative, convergence mechanisms, binocular vision testing, diagnosis and management of anomalies of non-strabismic ocular dysfunction.
- OCS 7520** (36-36-3)  
**Contact Lenses I**  
Introduces contact lenses and explores historical, technical, clinical aspects of lens materials, terminology, care systems, lens design, fitting, problem solving.
- OCS 7530** (36-36-3)  
**Anomalies of Binocular Vision II**  
Etiology and visual effects of strabismus and amblyopia. Covers testing, analysis, diagnosis, management of strabismus and amblyopia, utilization of lenses, prisms and vision therapy to ameliorate strabismus and amblyopia.
- OCS 7540** (36-36-3)  
**Contact Lenses II**  
Advanced lens applications in specialty cornea and contact lens practice. Options for presbyopia, astigmatism, anterior segment disease, myopia, corneal thinning disorders, keratoconus, including corneal surgery.

**OCS 7550 (36-0-2)*****Learning Disabilities***

Evolution of human vision development as it relates to learning processes. Analytical approach to assessing visual development; introduces various visual, motor, and perceptual cognitive assessment tests.

**OCS 7560 (36-36-3)*****Rehabilitative Optometry (Low Vision)***

Etiology, demography, clinical characteristics of low vision needed to understand functional implications of visual impairment. Systematic approach to diagnosis, management of visual disorders emphasizes improving life quality, functional capacity of the visually impaired by magnification, illumination control and visual field enhancement.

**OCS 7570 (18-0-1)*****Geriatric Optometry***

Discusses aging from sociological, psychological, biophysiological perspectives; reviews diagnosis, management of visual conditions, ocular diseases of older adults, and role of optometrists as members of multidisciplinary health care team providing services to community-based, institutionalized geriatric patients.

**OCS 8190 (18-0-1)*****Environmental Optometry***

Covers industrial (occupational) vision, protection in the work place from flying objects, radiation, sparks, etc. Sports vision, protective eyewear for recreational activities, industrial and ANSI standards, effects of special environments.

**OCS 8352 (0-640-10)*****Primary Care Externship***

Student clinicians provide eye care in multidisciplinary setting under supervision. Emphasizes evaluations; diagnosis, management of vision diseases and disorders.

**Secondary Care Externships****OCS 8512 (0-240-3.5)*****Cornea and Contact Lens***

Exposure to various contact lens modalities and associated anterior segment diseases to enhance cognitive and clinical skills. Specialty lens design, therapeutic management of corneal complications.

**OCS 8514 (0-240-3.5)*****Pediatrics and Binocular Vision***

Exposure to various binocular vision disorders and pediatric anomalies. Students develop treatment plans for functional vision disorders and carry out therapy methodologies to enhance cognitive and clinical skills.

**OCS 8516 (0-200-3)*****Vision Rehabilitation***

Intensive training in low vision rehabilitation and geriatric vision care in traditional and elderly care settings. Exposure to vision enhancing devices.

**Tertiary Care Externship****OCS 8612 (0-640-10)*****Medical/Surgical***

Diagnosis, management, treatment of patients in a medical/surgical setting. Pre- and post-operative care, evaluation and co-management of patients with systemic health anomalies and medical conditions such as glaucoma; observation of medical eye care.

**Ocular Disease and Pathology**

**Professor:** M.A.Khin; **Associate Professors:** K.Khin, K.Reed, J.Sowka; **Assistant Professor:** A.Woods

**PTH 6300 (54-0-3)*****General Pathology***

Introduces pathogenic processes in each organ system, molecular, cellular, tissue and organ changes. Emphasizes how disease manifests in the eye; signs and symptoms.

**OCS 6210 (54-0-3)****Ocular Disease I: Anterior Segment**

Diseases, disorders of anterior segment: anomalies of eyelids, cornea, conjunctiva, anterior chamber, crystalline lens. Discusses management of these conditions.

**OCS 6220 (54-0-3)****Ocular Disease II: Posterior Segment**

Diseases, disorders of posterior segment. Advanced diagnostic modalities: fluorescein angiography, ultrasonography; therapeutic modalities such as lasers.

**OCS 7230 (54-0-3)****Ocular Disease III:****Ocular/Systemic Disease**

Covers range of systemic diseases, their ocular manifestations. Presents spectrum of treatment modalities, interdisciplinary management of patient care.

**OCS 7250 (54-0-3)****Ocular Disease IV: Neuro-Optometry**

Diagnosis, treatment, management of ocular neuropathology. Discusses diagnostic processes, methodology: nuclear magnetic imaging, computerized tomography, radiology.

**OCS 7260 (36-18-2.5)****Clinical Medicine I**

Clinical overview of pathophysiological process of various systemic diseases and their diagnosis and management. Laboratory testing, physical diagnosis, neurological screening, injection techniques.

**Pharmacology**

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

**PCO 6310 (72-0-4)****PCO 6312 (27-0-1.5)****General Pharmacology I & II**

Covers drug action, examines classes of drugs used in clinical practice. Emphasizes structure and activity, mode of action, side effects, toxicity of drug interactions. Stresses pharmacological intervention of pathophysiological processes, standard clinical application of each drug class.

**PCO 6320 (27-0-1.5)****Ocular Pharmacology**

Drugs used in the eye or capable of exerting a pharmacological or toxicological effect on the eye; routes of administration, pathophysiological processes, treatment regimens.

**Physiology****Chairman & Associate Professor:**

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

**PHS 5300 (54-0-3)****General Physiology**

General human physiology from a molecular, cellular, tissue, organ systems approach; basic principles are discussed and applied to the blood, cardiovascular, pulmonary, renal and gastrointestinal systems, nerve and muscle physiology, tissue function. Discusses clinical implications.

**OVS 6220 (36-0-2)****Ocular Physiology**

General physiological principles and processes. Typical physiologic function of each tissue is discussed and contrasted with the molecular, cellular, and tissue effects of abnormal physiology. Presents the physiological interrelatedness of ocular tissues and the mechanisms of ocular functions.

## Student Organizations

### *Student Council*

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

College of Optometry.

### *Other Organizations*

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

American Optometric Student Association (AOSA)

Beta Sigma Kappa (BSK)

College of Optometrists in Vision Development (COVD)

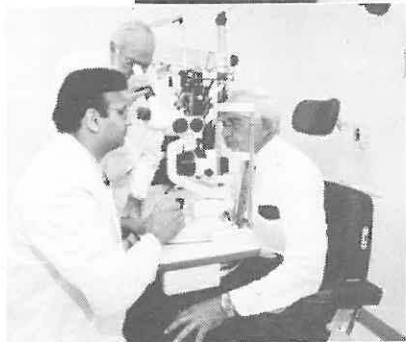
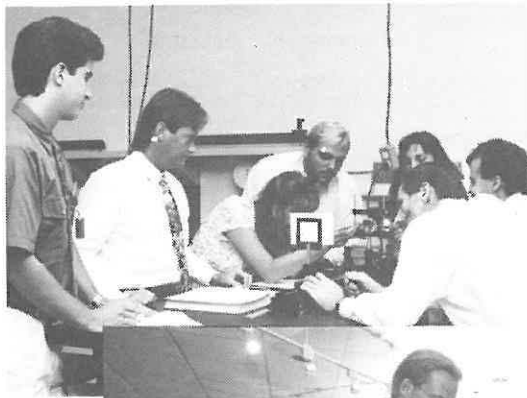
National Optometric Student Association (NOSA)

Student Government Association (SGA)

Student Volunteer Optometric Services to Humanity (SVOSH)







# College of Allied Health







**Raul R. Cuadrado,**  
**S.B., B.S., M.P.H., Dr. P.H.**  
 Dean

## Administration

- Raul R. Cuadrado, S.B., B.S., M.P.H., Dr.P.H., Dean  
 Director, Master of Public Health Program
- Reba Anderson, B.S., O.T.R., M.A., Ph.D., Associate Dean  
 Director, Occupational Therapy Program
- David Zinsmeister, P.A.-C., M.M.S., Assistant Dean  
 Director, Physician Assistant Program
- Cheryl J. Hill, B.S.P.T., M.S.,  
 Director, Physical Therapy Program

## College of Allied Health

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

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

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

The Master of Physical Therapy Program opened in 1994, graduated its charter class of 58 students in summer, 1996, and became accredited in fall, 1996.

In 1995, the Master of Public Health Program was launched as part of a dual degree program and has awarded 44 M.P.H. degrees to date. Over 100 Health Professions

Division students are currently enrolled in the program, and several West Florida students recently completed an innovative M.P.H. distance learning program utilizing interactive Compressed Video.

## Expenses and Financial Aid

Students should anticipate spending approximately \$1,500 for books, equipment and supplies and \$19,000 per academic year for living expenses. The primary financial responsibility for a student's education rests with the student and his or her family, but economic circumstances for some families may make it necessary for the student to obtain assistance from other sources.

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

tion: *Financial Planning for your Health Professions Education.*

The demands of these programs limit the number of hours a student can work at an outside job. During the months of clinical rotations, it is difficult or impossible for the student to work.

## Transfer Credits

Any student wishing to transfer from another university into a College of Allied Health program must provide the following:

1. Official transcripts from all colleges or universities previously attended, sent directly to Nova Southeastern University College of Allied Health Office of Admissions
2. A letter of recommendation to the NSU Program Director from the director of the program in which the applicant is currently enrolled

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

## Suspension/Dismissal

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

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

will be suspended and may be dismissed. Unprofessional conduct will result in dismissal.

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

## Re-admission Policy

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

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

*The College reserves the right, and the student, by his or 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.*

# PHYSICIAN ASSISTANT PROGRAM

America is struggling to provide quality, affordable health care for all of its citizens.

There is an estimated shortage of 100,000 primary care physicians in the U.S., and it takes seven to ten years to train a physician.

One answer lies with Physician Assistants (PAs).

PAs are health care professionals who practice medicine with physician supervision. Today, there are over 30,000 PAs providing health care that would otherwise be performed by physicians. PAs take medical histories, perform physical examinations, order and interpret tests, diagnose and treat illnesses, suture wounds, assist in surgery, and, in most states, write prescriptions.

PAs work in most medical specialties and in all types of communities. Many practice family and internal medicine, and over one-third are in towns with fewer than 50,000 residents.

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

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

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

## Accreditation

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

## Requirements for Admissions

Prospective students are selected by an admissions committee that considers the overall qualities of the applicant. Areas of consideration include personal motivation, knowledge of the PA profession, quality and length of prior health care experience, academic performance and level of achievement, life experiences and recommendations. Personal interviews are offered to the most qualified applicants to assess interpersonal and communication skills, maturity, altruistic attitude and commitment.

1. Prior to matriculation, applicants must have completed a minimum of 60 semester hours of specified course work, exclusive of physical education, with a minimum GPA of 2.5 on a four-point grading scale.
2. The College requires the students to earn a grade of 2.0 or better on a four-point scale in each of the following required subjects:

|  |                  |
|--|------------------|
| Algebra  | 3 Semester Hours |
| English composition  | 3 Semester Hours |
| English literature   | 3 Semester Hours |
| Humanities/Arts  | 3 Semester Hours |
| Public speaking  | 3 Semester Hours |
| Psychology   | 6 Semester Hours |
| Sociology  | 3 Semester Hours |
| General chemistry,<br>including laboratory                                 | 8 Semester Hours |
| Microbiology,<br>including laboratory                                      | 3 Semester Hours |
| General biology, including laboratory,<br>or Zoology, including laboratory | 4 Semester Hours |

|  |                                       |
|--|---------------------------------------|
| Human anatomy  | 3 Semester Hours                      |
| Human physiology<br>(or combined Human anatomy/<br>Physiology) | 3 Semester Hours<br>5 Semester Hours) |
| Biochemistry or<br>Organic chemistry                           | 3 Semester Hours                      |
| Electives  | 12 Semester Hours                     |

**Other Recommended Courses:**

|                                 |                 |
|---------------------------------|-----------------|
| Organic chemistry<br>laboratory | 1 Semester Hour |
| Anatomy laboratory              | 1 Semester Hour |
| Physiology laboratory           | 1 Semester Hour |
| Medical terminology             | 1 Semester Hour |
| Biochemistry laboratory         | 1 Semester Hour |

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

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

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

Applicants should take the test no

later than November or January prior to the date of expected matriculation. Applications for the AHPAT are available through the Office of Admissions, Nova Southeastern University Physician Assistant Program, or by a written request to:

**Allied Health Professions  
Admissions Test  
The Psychological Corporation  
555 Academic Court  
San Antonio, TX 78204-2498  
(800) 622-3231**

- Prior to matriculation, all accepted applicants must submit proof of current certification in Basic Life Support (BLS).
- All applicants must show evidence of computer skills through course work or self-study prior to the end of the first term. Students may obtain instruction through the Student Microcomputer Laboratory or other training facilities.
- Applicants who have attended foreign universities or colleges are required to have their academic credentials evaluated for U.S. institution equivalence by World Education Services, Josef Silney & Associates, Inc., or Education Credential Evaluators, Inc., and submit official examination scores of the Test of English as a Foreign Language (TOEFL). Speakers of English as a second language are also required to take the TOEFL.
- Although not required, prior health care experience is highly recommended and is considered for admission. Applicants must submit verifiable information about prior health care experience in order to be competitive for admission to the program.

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

## Application Procedure

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

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

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

2. Official transcripts of all course work attempted at all colleges and universities must be forwarded, by the institutions attended, to the Office of Admissions, NSU Physician Assistant Program. It is the responsibility of the applicant to ensure that arrangements are made for these transcripts to be sent. A final transcript, covering all of the applicant's work, must be forwarded to the Office of Admissions prior to matriculation.
3. Three letters of evaluation. One letter of evaluation must be sent from an individual (other than a relative) such as an academic advisor, professor, co-worker or supervisor. Two letters of evaluation must be from a physician assistant or physician.
4. A personal interview will be an integral part of the admission process; however, being granted an interview is not a guarantee of admission. It should

also be clearly understood that not all applicants will be granted an interview. Those who are selected for an interview will be notified of the date and time of such interview by the Office of Admissions.

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

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

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

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

## Tuition and Fees

1. Anticipated tuition for 1998-99 (subject to change by the Board of Trustees without notice): \$15,800 for Florida residents and \$15,965 for out-of-state residents. A student activities fee of \$100 each year is required of all students.
2. Acceptance Fee – \$100. This fee is required to reserve the accepted



applicant's place in the entering first-year class. This advance payment will be deducted from the tuition payment due on Registration Day, but is not refundable in the event of a withdrawal. It is payable within two weeks of an applicant's acceptance.

3. Deposit - \$400, due February 15th, under the same terms as the Acceptance Fee.
4. Pre-Registration Fee - \$500, due April 15th, under the same terms as the Acceptance Fee.

The first semester's tuition and fees, less the \$1,000 previously paid, are due on or before Registration Day. Tuition for each subsequent semester is due on or before the appropriate Registration Day. Students will not be admitted until their financial obligations have been met. The financial ability of applicants to complete their training at the College is important because of the limited number of positions available in each class. Applicants should have specific plans for financing two years of professional education. This should include tuition, living expenses, books, equipment, and miscellaneous expenses.

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

## Requirements for Graduation

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

1. Be of good moral character
2. Successfully complete all academic courses and degree requirements with a minimum of 161 semester hours and a minimum grade of 70% in each course
3. Have satisfactorily met all financial and library obligations
4. Attend in person the rehearsal and commencement program at which time the degree is conferred

## Course of Study

The curriculum is completed in 24 consecutive months following a minimum of two years of undergraduate 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, primary care-oriented curriculum prepares students to practice in a range of clinical settings. Students begin the program in the summer semester. The first year 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: eight required and two electives. Rotations are required in Family Medicine, Obstetrics/Gynecology, Geriatrics, Emergency Medicine, Pediatrics, Psychiatry, Surgery, and Internal Medicine. The rotations provide 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 rotations students are under the supervision of a licensed physician and participate in patient assessments, manage common medical problems, perform common laboratory procedures and interpret the results. The role of the Physician Assistant requires a high level of expertise and responsibility, and applicants must possess the ability and desire to complete a rigorous academic and clinical program and have a commitment to continued learning.

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

## CURRICULUM OUTLINE

| <i>First Year</i>  |  | Lecture    | Laboratory | Semester  | Hours |
|--------------------|--|------------|------------|-----------|-------|
| ANA 5420           | Anatomy  | 55         | 35         | 5         |       |
| MIC 5400           | Microbiology   | 45         | 0          | 3         |       |
| PAC 3000           | Physical Diagnosis I                                   | 18         | 18         | 2         |       |
| PAC 3002           | Medical Terminology                                    | 4          | 14         | 1         |       |
| PAC 3005           | Epidemiology & Biostatistics                           | 18         | 0          | 1         |       |
| PAC 3006           | Health Care Delivery Systems                           | 18         | 0          | 1         |       |
| PAC 3100           | Physical Diagnosis II                                  | 20         | 36         | 2         |       |
| PAC 3110           | Clinical Medicine<br>& Surgery I                       | 90         | 0          | 5         |       |
| PAC 3129           | Health Promotion &<br>Disease Prevention               | 16         | 0          | 1         |       |
| PAC 3130           | Laboratory Medicine                                    | 32         | 0          | 2         |       |
| PAC 3200           | Physical Diagnosis III                                 | 38         | 62         | 4         |       |
| PAC 3205           | Clinical Problem Solving                               | 24         | 0          | 2         |       |
| PAC 3207           | Behavioral Medicine                                    | 36         | 0          | 2         |       |
| PAC 3210           | Clinical Medicine &<br>Surgery II                      | 100        | 10         | 6         |       |
| PAC 3224           | Cardiac Simulation Laboratory                          | 4          | 14         | 1         |       |
| PAC 3229           | Electrocardiography & Advanced<br>Cardiac Life Support | 18         | 18         | 2         |       |
| PAC 3310           | Clinical Medicine & Surgery III                        | 80         | 24         | 5         |       |
| PAC 3400           | Medical Ethics   | 18         | 0          | 1         |       |
| PAC 5400           | Pathophysiology  | 54         | 0          | 3         |       |
| PCO 5300           | Biomedical Principles                                  | 18         | 0          | 1         |       |
| PCO 5400           | Pharmacology I   | 36         | 0          | 2         |       |
| PCO 5410           | Pharmacology II  | 66         | 0          | 4         |       |
| PHS 5400           | Physiology   | <u>54</u>  | <u>0</u>   | <u>3</u>  |       |
| <b>Total Hours</b> |  | <b>862</b> | <b>231</b> | <b>59</b> |       |

*Second Year*

| <b>Clinical Rotations</b> |                         | <b>Weeks</b>    |           |
|---------------------------|-------------------------|-----------------|-----------|
| PAC 4302                  | Psychiatry              | 4               | 4         |
| PAC 4303                  | Geriatrics              | 4               | 4         |
| PAC 4304                  | Obstetrics & Gynecology | 4               | 4         |
| PAC 4308                  | Elective I              | 4               | 4         |
| PAC 4309                  | Elective II             | 4               | 4         |
| PAC 4311                  | Internal Medicine       | 8               | 8         |
| PAC 4313                  | Surgery                 | 4               | 4         |
| PAC 4315                  | Emergency Medicine      | 4               | 4         |
| PAC 4317                  | Pediatrics              | 4               | 4         |
| PAC 4318                  | Family Medicine         | <u>8</u>        | <u>8</u>  |
| <b>Total</b>              |                         | <b>48 Weeks</b> | <b>48</b> |

## Physician Assistant Courses

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

### Basic Sciences

**ANA 5420** (55-35-5)

#### *Anatomy*

Gross structures of the human body. Integrates topographic and radiographic anatomy to stress the application and importance of clinical anatomy. Assists students to obtain the knowledge of the human anatomy necessary for the practice of the profession.

**MIC 5400** (45-0-3)

#### *Microbiology*

Relationship of microbes to human disease and the host-immune response. Characteristics and properties of clinically significant bacteria, viruses, fungi and selected parasites, as well as the prevention, control, and diagnostic laboratory tests of their associated specific infectious diseases.

**PHS 5400** (54-0-3)

#### *Physiology*

Clinically relevant physiologic principles of the major organ systems covered in *Clinical Anatomy*. Pathological changes that occur in human physiology in the disease process.

**PCO 5300** (18-0-1)

#### *Biomedical Principles*

Physiologic and biochemical bases for drug action. Basic biochemical pathways in which drugs intervene: metabolism, protein synthesis, and coagulation. Principles of pharmacokinetics - drug absorption, distribution and metabolism - are studied and applied to designing dosage regimens.

**PCO 5400** (36-0-2)

#### *Pharmacology I*

Understanding the basis for pharmacologic intervention in patient care is the foundation for treatment of disease. This course begins an in-depth study of the pharmacodynamics

of drugs used in the automatic nervous, renal, and cardiovascular systems. Mechanisms of drug action, clinical uses, side effects, contraindications and drug interactions, pharmacokinetic considerations for special patient populations.

**PCO 5410** (66-0-4)

#### *Pharmacology II*

The mechanisms of action, clinical uses, side effects, contraindications, drug interactions and pharmacokinetics of drugs utilized in the treatment of diseases of the major organ systems. Treatment of HIV, geriatric and neonatal pharmacology, the pharmacological principles of nutrition, over-the-counter agents, toxicology, drugs of abuse, prescription writing and evaluation of drug literature.

### Clinical Sciences

**PAC 3000** (18-18-2)

#### *Physical Diagnosis I*

Principles and skills required to perform a thorough history and physical examination. Emphasizes normal physical findings; correlates with the clinically oriented anatomy course using a systems approach. Introduces the skills necessary to perform a complete medical interview.

**PAC 3100** (20-36-2)

#### *Physical Diagnosis II*

Using skills learned in Physical Diagnosis I, students learn to integrate accurately and record historical and physical findings in a written format. Lecture, class discussion, role playing, supervised clinical experience, and patient simulations.

**PAC 3200** (38-62-4)

#### *Physical Diagnosis III*

Supervised practice of skills learned in *Physical Diagnosis II*. Integrating previously learned interviewing and physical diagnosis skills with principles from the clinical sciences, students elicit a comprehensive medical history, perform a complete physical examination, formulate an initial diagnostic

impression and diagnostic plan. Students are expected to continue progress in recording information in written form and presenting the information orally to colleagues.

**PAC 3129 (16-0-1)**

***Health Promotion and Disease Prevention***

Focus on wellness through preventive interventions and services. Emphasizes responsibility for one's own health, the community's efforts to protect against disease and environmental hazards. Epidemiology, risk factors, screening tests and community resources are identified with each health issue presented.

**PAC 3205 (24-0-2)**

***Clinical Problem Solving***

Concepts and skills necessary for developing the differential diagnosis and management plan for clinical problems. Emphasizes the correlation of historical information, physical findings, and pertinent laboratory results to formulate a diagnosis.

**PAC 3110 (90-0-5)**

***Clinical Medicine & Surgery I***

Etiology, clinical manifestations, appropriate diagnostic evaluation and the management of each selected disease entity. Includes cardiology, pediatrics, gastroenterology, nephrology, endocrinology, dermatology, pulmonary disease, obstetrics, gynecology, ophthalmology, neurology, hematology, musculoskeletal disorders, emergency medicine, occupational and infectious diseases.

**PAC 3210 (100-10-6)**

***Clinical Medicine & Surgery II***

Continuation of *Clinical Medicine and Surgery I*. Common disease entities of the major organ systems, primary care aspects of disease evaluation and treatment.

**PAC 3310 (80-24-5)**

***Clinical Medicine & Surgery III***

Disease entities of the major organ systems. Lectures cover primary care aspects of

disease evaluation and treatment. Laboratory instruction in the fundamentals of surgical technique and patient care. Laboratory practicum introduces procedures utilized in the clinical setting: aseptic technique, operating room protocol, suturing, venipuncture, injection and urethral catheterization.

**PAC 3130 (32-0-2)**

***Clinical Laboratory Medicine***

Clinical laboratory utilization, rationale for selecting common diagnostic tests, interpretation of results, correlation between results and disease processes, tests not available in the primary care setting that are necessary for diagnosis, treatment and patient care.

**PAC 3224 (4-14-1)**

***Cardiac Simulation Laboratory ("Harvey")***

Facilitates the clinical approach to the patient with cardiovascular disease. The life-size computerized cardiac patient simulator, Harvey, is used to teach and reinforce the use of cardiac auscultation to evaluate a patient's cardiovascular status. Teaches basic principles of auscultation. Case presentations with simulated heart sounds help to identify normal heart sounds, murmurs, abnormal heart sounds and their relationship to cardiac diseases.

**PAC 5400 (54-0-3)**

***Clinical Pathophysiology***

Pathological changes seen in disease states. Pathophysiologic concepts are approached utilizing a major body system/organ approach. Etiology and progression from the normal physiological state to the diseased state with resultant clinical signs and symptoms.

**PAC 3002 4-14 (Self Study)-1**

***Medical Terminology***

Use of medical language is the foundation for appropriate and accurate communication in patient care. Students acquire a medical vocabulary, knowledge of medical terminology and of terminology reference material.

**PAC 3229 (18-18-2)*****Advanced Cardiac Life Support & Electrocardiography***

Diagnostic skills used in acute cardiac care, the reading of normal and abnormal ECG, common cardiac diseases and their clinical signs, symptoms and ECG tracings, current guidelines for acute cardiac care. The American Heart Association-approved ACLS program is presented. Laboratory simulation promotes use of the skills learned in lecture.

**Behavioral Sciences****PAC 3207 (36-0-2)*****Behavioral Issues in Medicine***

Common psychosocial problems encountered by health care professionals. Emphasizes the recognition and understanding of development of these behaviors, including the patient-clinician relationship, counseling skills, communication skills, and appropriate intervention and treatment regimens.

**PAC 3005 (18-0-1)*****Epidemiology and Biostatistics***

Basic methods of epidemiology and biostatistics used in clinical research, evaluation of diagnostic procedures, methodology for clinical trials evaluating new treatments, critical reading of medical literature.

**PAC 3006 (18-0-1)*****Health Care Delivery Systems***

Current issues in the P.A. profession: history and future role of P.A.s within the health care system, the structures and administrative principles in health care organizations, role of the P.A. in health care delivery systems, third party reimbursement, quality assurance, federal health care programs, home health care, rural health care.

**PAC 3400 (18-0-1)*****Medical Ethics***

Principles and concepts in determining what action is right and what results are good when examining ethical problems in a primary care setting: solving an ethical di-

lemma, the impaired supervising physician, P.A.-physician conflicts, patient-P.A. conflicts, euthanasia and the P.A. role, risk management.

**Senior Rotations****PAC 4302*****Psychiatry***

Required four-week rotation in inpatient and outpatient settings. Students learn to evaluate, diagnose, and treat common acute and chronic psychiatric problems. Emphasizes the disease entities commonly encountered in the primary care setting.

**PAC 4303*****Geriatrics***

Required four-week rotation in outpatient, inpatient, and long-term care treatment settings teaches the normal and abnormal physiologic changes of aging and their effects on clinical decision making. Emphasizes primary care of the geriatric patient.

**PAC 4304*****Obstetrics/Gynecology***

Required four-week rotation in inpatient and outpatient settings teaches perinatal care and treatment, gynecological diagnosis and management. Emphasizes primary care of the female patient including obstetrics.

**PAC 4308*****Elective I*****PAC 4309*****Elective II***

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

**PAC 4311*****Internal Medicine***

Required eight-week rotation in outpatient, inpatient settings. Diagnosis, treatment, management of acute and chronic medical problems seen in the internal medicine practice. Emphasizes the adult non-surgical patient.

**PAC 4313*****Surgery***

Required four-week rotation in inpatient and outpatient settings. Students learn to diagnose, treat and manage the surgical patient. Emphasizes surgical entities commonly encountered in the primary care setting.

**PAC 4315*****Emergency Medicine***

Required four-week rotation in hospital emergency department teaches students to recognize, assess, and treat acute and life-threatening clinical problems. Emphasizes common primary care emergencies.

**PAC 4317*****Pediatrics***

Required four-week rotation in inpatient and outpatient settings teaches normal and abnormal growth and development, disease prevention, and basic health care in neonates through adolescence. Emphasizes primary care of the pediatric patient.

**PAC 4318*****Family Medicine***

Required eight-week rotation in outpatient settings. Comprehensive primary care of the individual patient within the family unit. Emphasizes the primary care needs of patients in rural and inner-city communities.

## OCCUPATIONAL THERAPY PROGRAM

Occupational therapists provide services to enhance the function and life satisfaction of persons whose daily life performance has been interrupted or jeopardized by disease, injury, disability, life stress, or other factors. Therapy consists of clients' planned involvement in occupation—purposeful activities—which positively influence their life adaptation. This involvement in occupation may be facilitated by supportive training, specialized equipment, environmental modification and/or problem solving to accomplish life tasks. The therapeutic process is founded upon the belief that individuals are the principal agents of their own adaptation, and through active involvement in occupation can have a significant impact on their health status, recovery from illness, and adjustment to disability.

The NSU Occupational Therapy Program offers two degrees, a Master of Occupational Therapy (M.O.T.) and a Doctor of Occupational Therapy (Dr.O.T.). The M.O.T. is designed so that a student may enter after completing an undergraduate or graduate degree or after completing 90 semester hours of undergraduate work (in-

cluding 30 semester hours of upper division). The Dr.O.T. is designed for the student who obtains an M.O.T. from Nova Southeastern University or for the practicing occupational therapist who wishes to obtain a professional doctoral degree.

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

### Accreditation

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

# Master of Occupational Therapy

## Admission Requirements

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

1. Prior to matriculation, applicants with an undergraduate or graduate degree in another field from a regionally accredited college or university must complete the following prerequisites:

Abnormal psychology 3 semester hours

Biology, Anatomy,  
or combined Anatomy/Physiology,  
including laboratory 4 semester hours

Human growth and  
development (must cover infancy  
through aging) 3 semester hours

Statistics 3 semester hours

Must demonstrate basic computer and  
word processing competency

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

Abnormal psychology 3 semester hours

Biology, Anatomy,  
or combined Anatomy/Physiology,  
including laboratory 4 semester hours

Human growth & development (must  
cover infancy through aging)  
3 semester hours

Statistics 3 semester hours

Humanities 9 semester hours  
(art, music appreciation, literature,  
foreign language, history, philosophy,

religion)

English composition 6 semester hours

Social science 3 semester hours

(anthropology, sociology, geography,  
political science, government,  
economics)

Must demonstrate basic computer, word  
processing competency

## Recommended Courses

### For all Applicants:

Ethics 3 semester hours

Public speaking 3 semester hours

Physics, 4 semester hours  
including laboratory

Theories of Personality 3 semester hours

Sociology/Anthropology 3 semester hours

Logic 3 semester hours

Physiology 3 semester hours

## Additional Requirements

### For all Applicants:

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

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

## Application Procedure

Candidates for admission must submit 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 profes-



sors, work supervisors, or volunteer supervisors

3. Official GRE scores
4. Official college transcripts from all undergraduate or graduate institutions attended, sent to Nova Southeastern University Occupational Therapy Office of Admissions directly from the institutions
5. Test of English as a Foreign Language (TOEFL) scores if a foreign student

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

### Foreign Course Work

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

#### World Education Services, Inc.

P.O. Box 745

Old Chelsea Station

New York, NY 10113-0745

(212) 966-6311

or

#### Josef Silney and Associates

International Education Consultants

P.O. Box 248233

Coral Gables, FL 33124

(305) 666-0233

or

#### Educational Credential Evaluators, Inc.

P.O. Box 92970

Milwaukee, WI 53202-0970

(414) 289-3400

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

## Dual Admissions Program Undergraduate/Occupational Therapy Program

Nova Southeastern University Health Professions Division has established a dual admissions program with the Nova Southeastern University Farquhar Center for Undergraduate Studies for a select number of highly-motivated, qualified students interested in pursuing both undergraduate and professional studies in Occupational Therapy. This allows candidates to receive their master's degree in Occupational Therapy in a 5 1/2 year period.

Candidates must maintain a specified grade point average. Students will spend three years in the undergraduate school and will be awarded a bachelor's degree from the Farquhar Center upon completion of the first year of education at Nova Southeastern University's College of Allied Health. Students will receive the Master of Occupational Therapy degree after completion of the Occupational Therapy M.O.T. program.

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

### Tuition and Fees

1. Anticipated tuition for 1998-99 (subject to change by the Board of Trustees without notice): \$15,500 for Florida students and \$17,500 for out-of-state residents. A student activities fee of \$100 each year is required of all students. Eligible students must request in-state tuition on application. For tuition purposes, a student's Florida residency status (in-state or out-of-state) will be determined at initial admission and will



- remain the same throughout the entire enrollment of the student at NSU. Accordingly, tuition will not be adjusted as a result of any change in residency status after initial enrollment registration.
2. Acceptance Fee: \$100. This fee is required to reserve the accepted applicant's place in the entering first year class. This advance payment will be deducted from the tuition payment due on Registration Day, but is not refundable in case of a withdrawal. It is payable within two weeks of an applicant's acceptance.
  3. Deposit: \$400, due February 15, under the same terms as the Acceptance Fee.
  4. Pre-Registration Fee: \$500, due April 15, under the same terms as the Acceptance Fee.
  5. Student Activities Fee: \$100, payable at each fall registration.
3. Have satisfactorily met all financial and library obligations
  4. Successfully complete the clinical internships within 24 months of completion of didactic courses
  5. Attend in person the rehearsal and commencement program at which time the degree is conferred

## Course of Study

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

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

The financial ability of applicants to complete their training at the University is important because of the limited number of positions available in each class. Applicants should have specific plans for financing 2 1/2 years of professional education. This should include tuition, living expenses, books, equipment, internship, travel, and miscellaneous expenses.

## Requirements for Graduation

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

1. Be of good moral character
2. Have satisfactorily completed the program of study required for the degree (121 semester hours) with a minimum

# Curriculum Outline for Master of Occupational Therapy Program

## *First Year*

|                        |      | <b>Lecture Laboratory</b>  |            | <b>Semester</b> | <b>Hours</b> |
|------------------------|------|--|------------|-----------------|--------------|
| <b>Summer Semester</b> |      |  |            |                 |              |
| OCT                    | 5011 | Human Occupation<br>Across the Life Span                           | 64         | 96              | 6            |
| OCT                    | 5101 | Historical & Theoretical<br>Foundations of Occupational<br>Therapy | <u>38</u>  | <u>0</u>        | <u>2</u>     |
| <b>Total Hours</b>     |      |  | <b>102</b> | <b>96</b>       | <b>8</b>     |

## *First Year*

|                       |      | <b>Lecture Laboratory</b>    |            | <b>Semester</b> | <b>Hours</b> |
|-----------------------|------|------------------------------|------------|-----------------|--------------|
| <b>First Semester</b> |      |                              |            |                 |              |
| ANA                   | 5516 | Gross Anatomy                | 114        | 57              | 7            |
| OCT                   | 5013 | Creative Occupations         | 19         | 38              | 2            |
| OCT                   | 5121 | Clinical Signs & Symptoms    | 60         | 0               | 4            |
| OCT                   | 5822 | Data Collection/Assessment I | <u>38</u>  | <u>114</u>      | <u>5</u>     |
| <b>Total Hours</b>    |      |                              | <b>231</b> | <b>209</b>      | <b>18</b>    |

## *First Year*

|                        |      | <b>Lecture Laboratory</b>     |            | <b>Semester</b> | <b>Hours</b> |
|------------------------|------|-------------------------------|------------|-----------------|--------------|
| <b>Second Semester</b> |      |                               |            |                 |              |
| ANA                    | 5533 | Neuroanatomy                  | 40         | 20              | 3            |
| OCT                    | 5015 | Applied Occupations           | 19         | 38              | 2            |
| OCT                    | 5123 | Clinical Signs & Symptoms II  | 60         | 0               | 4            |
| OCT                    | 5395 | Psychiatry                    | 33         | 0               | 2            |
| OCT                    | 5824 | Data Collection/Assessment II | <u>38</u>  | <u>76</u>       | <u>4</u>     |
| <b>Total Hours</b>     |      |                               | <b>190</b> | <b>134</b>      | <b>15</b>    |

## *Second Year*

|                             |      | <b>Lecture Laboratory</b>                                  |            | <b>Semester</b> | <b>Hours</b> |
|-----------------------------|------|--|------------|-----------------|--------------|
| OCT                         | 5132 | Current Issues in<br>Occupational Therapy I                | 48         | 0               | 3            |
| OCT                         | 5133 | Current Issues in<br>Occupational Therapy II               | 48         | 0               | 3            |
| OCT                         | 5174 | Research Methods I   | 48         | 0               | 3            |
| OCT                         | 5175 | Research Methods II  | 48         | 0               | 3            |
| OCT                         | 5243 | Pediatric Occupational Therapy                             | 48         | 64              | 10           |
| OCT                         | 5343 | Mental Health<br>Occupational Therapy                      | 48         | 64              | 10           |
| OCT                         | 5443 | Occupational Therapy Physical<br>Dysfunction/Work Practice | 48         | 64              | 10           |
| OCT                         | 5643 | Geriatric Occupational Therapy                             | 56         | 56              | 10           |
| OCT                         | 5963 | Fieldwork Issues I   | 0          | 2               | 1            |
| OCT                         | 5964 | Fieldwork Issues II  | 0          | 2               | 1            |
| OCT                         | 5981 | Fieldwork Experience Level I*                              | 0          | 0               | 12           |
| OCT                         | 5982 | Fieldwork Experience Level II*                             | <u>0</u>   | <u>0</u>        | <u>12</u>    |
| <b>Total Hours</b>          |      |  | <b>392</b> | <b>252</b>      | <b>78</b>    |
| <b>Total Semester Hours</b> |      |  |            |                 | <b>119</b>   |

\* Each 40 hours/week for 12 weeks

## Doctor of Occupational Therapy Program

The Doctor of Occupational Therapy (Dr.O.T.) is conferred in recognition of a demonstrated ability for leadership in practice and clinical research within a targeted delivery system. A minimum of 90 semester credits is required including dissertation of original practice-based research. A maximum of 36 credits may be transferred from other graduate programs with Advisory Committee approval.

### Admission Requirements

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

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

### Application Procedure

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

1. A completed application form along with a \$50 non-refundable application fee
2. Three letters from persons who can evaluate the applicant's capability for doctoral study
3. Official GRE scores; TOEFL scores,

if appropriate

4. Official college transcripts from all undergraduate and graduate institutions attended, sent directly to the NSU Occupational Therapy Office of Admissions
5. Official National Board for Certification in Occupational Therapy (NBCOT) certification confirmation

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

### Tuition and Fees

1. Anticipated tuition for 1998-99 (subject to change by the Board of Trustees without notice): \$5,000 each semester for full-time students (7 to 12 credit hours) and \$2,500 each semester for part-time students (6 credit hours or less). A student activities fee of \$100 each year is required.
2. Acceptance Fee: \$100. This fee is required to reserve the accepted applicant's place in the entering class. This advance payment will be deducted from the tuition payment due on Registration Day, but is not refundable in case of a withdrawal. It is payable within two weeks of an applicant's acceptance.
3. Deposit: \$400, due sixty days prior to registration, under the same terms

as the Acceptance Fee.

4. Pre-registration Fee: \$500, due thirty days prior to registration, under the same terms as the Acceptance Fee.
5. Student Activities Fee: \$100, payable at each fall registration

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

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

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

## Requirements for Graduation

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

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

10. Attend in person the rehearsal and commencement program at which time the degree is conferred

## Course of Study

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

|   | <b>Semester Hours</b> |
|---|-----------------------|
| Required core courses   | 18                    |
| Electives: selected with Advisory Committee approval to complement stated clinical specialization | 12-24                 |
| Dissertation & Clinical Residency   | <u>12-24</u>          |
| <b>Sub-total</b>  | <b>54</b>             |
| Master's Degree (transferred)   | <u>36</u>             |
| <b>Total</b>  | <b>90</b>             |

2. Students holding a baccalaureate degree in occupational therapy:

|   | <b>Semester Hours</b> |
|---|-----------------------|
| Required core courses   | 18                    |
| Research/Statistics Electives   | 6                     |
| Electives: selected with Advisory Committee approval to complement stated clinical specialization | 42-60                 |
| Dissertation & Clinical Residency   | <u>12-24</u>          |
| <b>Total</b>  | <b>90</b>             |

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

|  | <b>Semester Hours</b> |
|--|-----------------------|
| Equivalent of entry-level master's program, including six months of internship | 36                    |
| Statistics/Research  | 6                     |
| Required core courses  | 18                    |
| Electives  | 12-24                 |
| Dissertation & Clinical Residency  | <u>12-24</u>          |
| <b>Total</b>   | <b>90</b>             |

**Occupational Therapy Courses**

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

**ANA 5516** (114-57-7)

**Gross Anatomy**

Details human anatomy. Laboratory activities consist of student teams studying prosected cadavers, sections, bone sets, videotapes, radiographs, models.

**ANA 5533** (36-18-3)

**Neuroanatomy**

Anatomy of central, peripheral nervous systems. Laboratory activities consist of student teams studying prosected cadavers, sections, radiographs, models.

**OCT 5011** (64-96-6)

**Human Occupation Across the Life Span**

Introduces activities that influence engagement, motivation, health, independence of individuals from infancy to old age. Perception, observation, appreciation, analysis, prediction, selection, presentation of occupations that exhibit appropriateness for individuals as determined by age or interest are included.

**OCT 5013** (19-38-2)

**Creative Occupations**

Focuses on therapeutic value of creativity. The meaning of significance, involvement, challenge, success, competence are experientially explored. Students learn to structure, adapt, plan, present, assess activities for use with clients.

**OCT 5015** (19-38-2)

**Applied Occupations**

Experiential course on influence of culture on human occupations. Students explore cultural impact, meaning, contributions of world view ritual to everyday life. Focus on adaptations, therapeutic use of occupations to address client problems. Culture, background, environment considered.

**OCT 5101** (38-0-2)

**Historical and Theoretical****Foundations of Occupational Therapy**

Social-cultural heritage of occupational therapy, the people who formulated the ideas and concepts on which profession is based. Students explore relationship between philosophical, theoretical, knowledge bases of occupational therapy.

**OCT 5121** (60-0-4)

**Clinical Signs and Symptoms I**

Problems presented in motor, sensory, cognitive, interpersonal, self-care, productivity, leisure areas that may be seen by occupational therapists as a result of pathophysiological dysfunction. Class parallels content presented in *Gross Anatomy*.

**OCT 5123** (60-0-4)

**Clinical Signs and Symptoms II**

Continuation of *Clinical Sign and Symptoms I*.

**OCT 5132** (48-0-3)

**Current Issues in Occupational Therapy I**

Focus on occupational therapist as administrator of clinical services. Includes systems theory, management theory, techniques.

**OCT 5133** (48-0-3)

**Current Issues in Occupational Therapy II**

Continuation of *Current Issues in Occupational Therapy I*.

**OCT 5174** (48-0-3)

**Research Methods for Occupational Therapy I**

Exploration of research methods applicable to the practice of occupational therapy. Focuses on evaluation data as bases for research. Prerequisites: *Statistics*

**OCT 5175** (48-0-3)

**Research Methods for Occupational Therapy II**

Continuation of *Research Methods for Occupational Therapy I*.

**OCT 5243 (48-64-10)****Occupational Therapy Pediatric Practice**

The practice of occupational therapy for children and infants, including evaluation and treatment techniques, treatment, discharge planning, working with families. Lecture, laboratory, fieldwork level I experience. Prerequisites: OCT 5121, OCT 5822, OCT 5123, OCT 5824, OCT 5015.

**OCT 5343 (48-64-10)****Occupational Therapy Mental Health Practice**

The practice of occupational therapy in mental health/psychiatry, including application of evaluation techniques, treatment, discharge planning, working in community, acute care environments. Lecture, laboratory, fieldwork level I experiences. Prerequisites: OCT 5121, OCT 5822, OCT 5123, OCT 5824, OCT 5015

**OCT 5395 (33-0-2)****Psychiatry**

Presents psychiatric interview, personality development, somatic therapies and psychopharmacology, major psychiatric disorders using the DSM IV, psychotherapy as a base for mental health practice.

**OCT 5443 (48-64-10)****Occupational Therapy Physical Dysfunction/Work Practice**

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

**OCT 5643 (56-56-10)****Occupational Therapy Geriatric Practice**

The practice of occupational therapy for the

aged, including evaluation, treatment techniques including treatment planning, discharge planning, working with families. Lecture, laboratory, fieldwork level I experience. Prerequisites: OCT 5121, OCT 5822, OCT 5123, OCT 5824, OCT 5015

**OCT 5822 (38-114-5)****Data Collection and Assessment I**

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

**OCT 5824 (38-76-4)****Data Collection and Assessment II**

A continuation of *Data Collection and Assessment I*.

**OCT 5963 (0-32-1)****Fieldwork Issues I****OCT 5964 (0-32-1)****Fieldwork Issues II**

Seminars designed to accompany fieldwork placement that address issues of practice. Topics for analysis and discussion presented by students. Students must have access to a computer with a modem; class is conducted on-line electronically.

**OCT 5981 (0-0-12)****Fieldwork Level II**

Twelve-week supervised internship in approved practice setting. Prerequisites: Completion of M.O.T. formal course work.

**OCT 5982 (0-0-12)****Fieldwork Level II**

Twelve-week supervised internship in approved practice setting. Prerequisites: Completion of M.O.T. course work.

**OCT 6010 (45-0-3)****Theory Development for Models of Practice**

Presents theoretical concepts, their development and application for the further ad-

vancement of occupational therapy practice.

**OCT 6011** (45-0-3)  
***Cross Cultural Perspective of Functional Performance***

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** (45-0-3)  
***The Occupational Therapist as Clinical Educator***

Principles of clinical instruction appropriate for use with students, patients, families. Includes instructions in learning theory, instructional techniques, educational media.

**OCT 6109** (45-0-3)  
***The Occupational Therapist and Cultural Diversity***

Examination of varying cultures and their related health tradition. Practical application of intervention strategies appropriate for members of varying ethnic, cultural groups. Emphasizes African-American, Hispanic, Asian traditions.

**OCT 6113** (45-0-3)  
***Occupational Therapy and the Americans with Disabilities Act***

Analysis of the impact of the ADA on practice of occupational therapy in various settings. Students explore new challenges that therapists face as ADA legislation influences goals, changing roles for the profession.

**OCT 6130** (45-0-3)  
***Health Care Reform***

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

**OCT 6132** (45-0-3)  
***Advanced Legal and Ethical Issues In Health Care***

Legal, ethical issues affecting health care delivery, issues of confidentiality, reimbursement, right-to-die, advanced directives, ethical dilemmas, OBRA, worker's compensation, Public Law 94-142, documentation, employer-employee independent contractor relationship, malpractice issues, expert witness testimony.

**OCT 6160** (45-0-3)  
***Special Topics in Occupational Therapy***

This seminar for doctoral students only investigates timely topics of critical interest to health care providers.

**OCT 6170** (45-0-3)  
***Quantitative Research Methods for Occupational Therapy***

Research methods applicable to practice of occupational therapy. Includes research design, methodology, analysis. Prerequisite of six semester hours of statistics.

**OCT 6171** (45-0-3)  
***Qualitative Research Methods for Occupational Therapy***

Application of qualitative methods useful in documentation and evaluation of patient treatment. Students design a qualitative study for their area of clinical specialization.

**OCT 6173** (45-80-4)  
***Statistical Measures for Occupational Therapists***

Statistical presentation and interpretation, sampling, probability, significance and statistical inference. Includes computer analysis of statistical data.

**OCT 6211** (45-0-3)  
***Feeding Assessment and Intervention for the Child With Central Nervous System Dysfunction***

Covers normal acquisition of oral-motor,



feeding skills; assessment and treatment of feeding problems. Addresses transition from tube feeding to oral feeding.

**OCT 6240** (45-0-3)

***Functional Assessment and Treatment Strategies for the Infant and Young Child with Visual Impairment***

Visual problems in infants, young children; assessment of functional visual skills and intervention strategies. Interdisciplinary approach to functional independence for blind, visually impaired children.

**OCT 6241** (45-0-3)

***Pediatric Occupational Therapy Services in the Community***

Cultural, social, environmental influences upon child with disability, his/her family; relationship of these influences to the identification, evaluation, treatment process. Service delivery models assessed, analyzed for applicability to children in urban and rural areas. Includes field experiences.

**OCT 6242** (30-45-3)

***Neurodevelopmental and Sensory Integration Treatment for the Infant and the Young Child***

Covers neuroscience basis for NDT and SI treatment approaches with children. Emphasizes the combined treatment effect. Includes laboratory experiences with treatment for young children, instruction to family members for total child management.

**OCT 6243** (45-0-3)

***School-Based Occupational Therapy: New Models of Practice***

Changes in practice of school-based therapy, new treatment strategies; influence of law, funding, service delivery model on treatment of children in the educational system.

**OCT 6301** (45-0-3)

***History of Occupational Therapy in Mental Health***

Historical antecedents of mental health practice in occupational therapy, contemporary

practice models from historical perspective with projections of relevance of future practice models relevant to changes in health care delivery system.

**OCT 6302** (45-0-3)

***Contextual Analysis of Occupational Therapy Performance in Mental Health***

Study of human, nonhuman environments related to occupational performance in mental health. Students develop methodology for environmental analysis applicable for clinical practice.

**OCT 6321** (30-30-3)

***Occupational Therapy Assessments for Mental Health Practitioners***

Evaluation of occupational therapy evaluation tools including their theoretical underpinnings. Investigation of methodologies that more effectively assess occupational performance components related to mental health.

**OCT 6441** (45-0-3)

***The Occupational Therapist Rehabilitates the Worker***

Evaluation, treatment strategies for injured workers; development of intervention programs, practice, reimbursement issues.

**OCT 6442** (30-30-3)

***Injuries of the Hand***

Investigates the advanced management of complex hand injuries. Includes advanced splinting and mobilization techniques.

**OCT 6603** (45-0-3)

***Pharmacological Impact On Neurological Function of the Aged***

Impact of pharmacological treatments, interaction of multiple pharmacological treatments in the elderly. Study of signs, symptoms of drug-induced toxicity in patients. Strategies to assist elderly to monitor medications and understand impact of medications on functional performance.



- OCT 6751** (15-60-3)  
**Rural Health Issues in Rehabilitation**  
 Course for advanced students who wish to practice in rural environments. Includes a significant practicum experience in Area Health Education Center (AHEC) sites.
- OCT 6792** (30-30-3)  
**The Occupational Therapist As Injury Prevention Consultant**  
 Applies principles of occupational therapy theory and practice to injury prevention in industry. Students critically examine various work sites and prevention programs. Stresses ergonomic principles.
- OCT 6820** (30-30-3)  
**Evaluative Procedures For Occupational Therapy I**  
 Study of design, selection, evaluation, construction of measuring instruments. Prerequisites: *Statistics*.
- OCT 6821** (45-0-3)  
**Evaluative Procedures For Occupational Therapy II**  
 Investigation of evaluative procedures appropriate for specialized areas of practice, the development of new evaluative procedures for specific target populations.
- OCT 6831** (45-0-3)  
**The Occupational Therapy Consultant**  
 Investigates theories, practice, principles of occupational therapy consultation in various practice areas. Students address system diagnosis, assessment, team building, decision making.
- OCT 6848** (30-30-3)  
**Closed Head Injury**  
 Advanced intervention techniques applicable for patients with severe head injury. Includes clinical experiences with evaluation indicators for recovery.
- OCT 6860** (45-0-3)  
**Leadership Seminar**  
 Study and application of current and emerging perspectives on leadership. Examination of the history of leadership in the profession, and of areas of need and opportunity for leadership now.
- OCT 6890** (0-0-[1-3])  
**Independent Study**  
 Individualized study under the supervision of assigned instructor. Requires permission of graduate coordinator.
- OCT 6911** (15-60-3)  
**Functional Performance and Aging Process**  
 Occupational performance components, their impact on functional activity of the elderly, strategies to maintain and optimize independence in the elderly. Students are assigned to an elderly family which they follow and serve as advocate for over a two-semester sequence. Includes field experience.
- OCT 7950** (0-0-[6-12])  
**Clinical Residency**  
 One-year supervised clinical practice in a setting approved by student's supervisory committee. Placement must fulfill established parameters for level of practice.
- OCT 7970** (0-0-[6-12])  
**Doctoral Dissertation**  
 Supervised, original clinical study of occupational therapy evaluation, intervention. Prerequisite: admission to candidacy

## PHYSICAL THERAPY PROGRAM

Physical therapists are health care professionals who diagnose and treat movement dysfunction that results in physical impairment and disability. In addition to providing direct patient care services, physical therapists serve 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 and engage in critical inquiry to conduct and review research.

Physical therapists work in a 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, physical therapists perform a history and physical examination, conduct assessments to determine a diagnosis, select appropriate physical therapy interventions, and monitor the effectiveness of treatment.

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

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

### Accreditation Status

The Physical Therapy Program was granted full accreditation by the Commission on Accreditation of Physical Therapy Education (CAPTE) of the American Physical Therapy Association in October, 1996.

### Master of Physical Therapy

#### Requirements for Admission

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

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

|   |                  |
|---|------------------|
| English   | 6 semester hours |
| Oral communications   | 3 semester hours |
| Mathematics   | 6 semester hours |
| Humanities (art, music, dance, literature, foreign language, philosophy)                  | 9 semester hours |
| Social sciences (sociology, geography, history, political science, government, economics) | 9 semester hours |
| Psychology  | 6 semester hours |
| Human growth and development (must cover infancy through aging)                           | 3 semester hours |
| Biology including laboratory (human anatomy and physiology is recommended)                | 8 semester hours |
| Chemistry including laboratory  | 8 semester hours |
| Physics including laboratory  | 8 semester hours |

(Biology, Chemistry and Physics must be

taken in their departments. No applied or modified science courses will be accepted.)

### **Recommendations**

Applicants must demonstrate evidence of computer skills through course work or self-study, and evidence of ability to communicate verbally in a foreign language (Spanish is recommended) through course work, self-study, or CLEP examination.

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

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

### **Application Procedure**

Candidates for admission must submit:

1. A completed application form along with a \$50 non-refundable application fee
2. Three letters of evaluation from individuals, other than relatives, such as faculty, co-workers, health care providers, or work or volunteer supervisors. At least one completed evaluation form must be from a physical therapist. Evaluations should be submitted on forms provided and not submitted in the form of a letter.
3. Official scores from the Allied Health Professions Admissions Test (AHPAT) [for the 1997 entering class only] or the Graduate Record Examination (GRE). These test scores must be less than five years old
4. Physical Therapy Experience form
5. Official college transcripts from all undergraduate or graduate institutions attended, sent to the Office of Admissions, NSU Physical Therapy Program, directly from the institutions
6. Copies of all professional certifications, registrations, licenses or other relevant credentials

Upon receipt of the completed applica-

tion 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. All applicants who are eventually accepted into the program must be interviewed. An invitation to appear for an interview should not be construed as evidence of acceptance.

Applications may be submitted at any time; however, only those who have submitted all application credentials (all transcripts, evaluation forms, physical therapy experience form, etc.) prior to February 1 will be considered for admission into the fall class of the same year. Notice of acceptance or other action by the Committee on Admission will be on a "rolling" or periodic basis when the interview is completed. Early completion of the application is, therefore, in the best interest of the student because of the limited number of positions available in the class.

### **Dual Admissions Program Undergraduate/Physical Therapy Program**

Nova Southeastern University Health Professions Division has established a dual admissions program with the Nova Southeastern University Farquhar Center for Undergraduate Studies for a select number of highly-motivated, qualified students seeking to pursue both an undergraduate degree and professional studies in Physical Therapy.

Candidates must maintain a specified GPA and achieve acceptable scores on the Allied Health Professions Admissions Test (AHPAT) or the Graduate Record Examination (GRE).

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

For complete information and requirements, contact the Office of Admissions, Farquhar Center for Undergraduate Studies, Nova Southeastern University, 3301

College Avenue, Ft. Lauderdale, FL 33314.

## Tuition and Fees

1. Anticipated tuition for 1998-99 (subject to change by the Board of Trustees without notice): \$17,000 for Florida students and \$19,500 for out-of-state residents. A student activities fee of \$100 each year is required of all students. Eligible students must request in-state tuition on application. For tuition purposes, a student's Florida residency status (in-state or out-of-state) will be determined at initial admission and will remain the same throughout the entire enrollment of the student at NSU. As such, tuition will not be adjusted as a result of any change in residency status after initial enrollment registration.
2. Acceptance Fee: \$100. This fee is required to reserve the accepted applicant's place in the entering first year class. This advance payment will be deducted from the tuition payment due on Registration Day, but is not refundable in case of a withdrawal. It is payable within two weeks of an applicant's acceptance.
3. Deposit: \$400, due March 15, under the same terms as the Acceptance Fee.
4. Pre-Registration Fee: \$500, due May 15, under the same terms as the Acceptance Fee.
5. Student Activities Fee: \$100, payable at each fall registration.

The summer and fall semesters' tuition and fees, less the \$1,000 previously paid, are due on or before Registration Day. Tuition for each subsequent semester is due on or before the appropriate Registration Day.

Students will not be admitted until their financial obligations have been met.

The financial ability of applicants to complete their training at the University is important because of the limited number of positions available in each class. Applicants should have specific plans for financing two years of professional education. This should in-

clude provision for tuition, living expenses, books, equipment, internship, travel, and miscellaneous expenses.

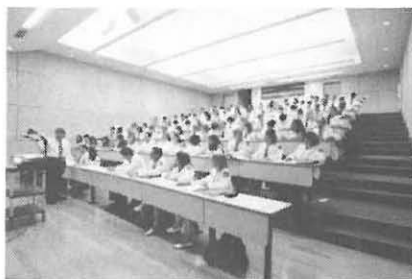
## Requirements for Graduation

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

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

## Course of Study

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



## CURRICULUM OUTLINE

|  | <b>Semester Hours</b> |
|--|-----------------------|
| <i>First Year</i>                      |                       |
| <b>Fall Semester</b>                   |                       |
| <b>First Nine Weeks</b>                |                       |
| PHT 5613 Case Studies I-A              | 7                     |
| SPC 5614 Professional Issues I-A       | 2                     |
| <b>Second Nine Weeks</b>               |                       |
| PHT 5615 Case Studies I-B              | 7                     |
| SPC 5624 Professional Issues I-B       | <u>2</u>              |
| <b>Total</b>                           | <b>18</b>             |
| <i>First Year</i>                      |                       |
| <b>Spring Semester</b>                 |                       |
| <b>First Nine Weeks</b>                |                       |
| PHT 5622 Case Studies I-C              | 7                     |
| SPC 5634 Professional Issues I-C       | 2                     |
| <b>Second Nine Weeks</b>               |                       |
| PHT 5624 Case Studies I-D              | 7                     |
| SPC 5644 Professional Issues I-D       | <u>2</u>              |
| <b>Total</b>                           | <b>18</b>             |
| <i>First Year</i>                      |                       |
| <b>Summer Semester - Nine Weeks</b>    |                       |
| CLE 5612 Tier I Clinical Education     | 2                     |
| PHT 6610 Case Studies I-E              | <u>7</u>              |
| <b>Total</b>                           | <b>9</b>              |
| <i>Second Year</i>                     |                       |
| <b>Fall Semester</b>                   |                       |
| <b>First Nine Weeks</b>                |                       |
| MPT 6612 Professional Development I-A  | 2                     |
| PHT 6612 Case Studies II-A             | 7                     |
| <b>Second Nine Weeks</b>               |                       |
| MPT 6622 Professional Development I-B  | 2                     |
| PHT 6622 Case Studies II-B             | <u>7</u>              |
| <b>Total</b>                           | <b>18</b>             |
| <i>Second Year</i>                     |                       |
| <b>Spring Semester</b>                 |                       |
| <b>First Nine Weeks</b>                |                       |
| MPT 6632 Professional Development I-C  | 2                     |
| PHT 6632 Case Studies II-C             | 7                     |
| <b>Second Nine Weeks</b>               |                       |
| INT 6619 Tier II-A Clinical Internship | <u>11</u>             |
| <b>Total</b>                           | <b>20</b>             |
| <i>Second Year</i>                     |                       |
| <b>Summer Semester - Nine Weeks</b>    |                       |
| INT 6629 Tier II-B Clinical Internship | <u>9</u>              |
| <b>Total</b>                           | <b>9</b>              |

## Physical Therapy Courses (Master's Degree)

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

**CLE 5612** (0-76[clinic]-2)

### **Tier I Clinical Education**

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)

**INT 6619** (0-440[clinic]-11)

### **Tier II-A Clinical Internship**

Beginning half of 20-week clinical internship; focuses on the practice of skills in primary care settings. Students identify a clinical efficacy study and are guided in the development of a research project related to a clinical problem.

**INT 6629** (0-360[clinic]-9)

### **Tier II-B Clinical Internship**

Second half of 20-week clinical internship; focuses on the practice of skills in primary care settings. Concludes with two-day seminar, report of plan for professional development.

**MPT 6612** (36-0-2)

### **Professional Development I-A**

Career laddering from new graduate to physical therapist as a multi-site manager begins with this course. Components of quality-communication, leadership, consultation, risk management, teaching/learning, system theory, and resource identification/allocation serve as common themes. Cases studies, discussion groups, journals, panels, and projects. (4 hours discussion/week for 9 weeks.)

**MPT 6622** (36-0-2)

### **Professional Development I-B**

Continuation of career laddering cases. Research project continues with data

collection and completion of drafts of Chapters IV and V of the thesis approved. Cases studies, discussion groups, journals, panels, and projects. (4 hours discussion/week for 9 weeks.)

**MPT 6632** (36-0-2)

### **Professional Development I-C**

Completion of career laddering with reflection in action used for issues facing the profession and the professional. Defense of thesis completed with this course. Cases studies, discussion groups, journals, panels, and projects. (8 hours discussion/week for 9 weeks.)

**PHT 5613** (63-63-7)

### **Case Studies I-A**

With movement science as the theoretical framework, this course introduces students to history taking, patient interviewing, and patient screening of normal adults and a patient with a systemic disease. Case studies, small group discussions, laboratory practice, panels. (22 hours discussion lab/week for nine weeks)

**PHT 5615** (63-63-7)

### **Case Studies I-B**

Continuation of case studies following the clinical decision-making and movement science models, for the purpose of identifying patient needs, gathering and filtering data to develop a patient problem list and goals, determining a diagnosis for musculoskeletal dysfunction. Case studies, small group discussions, laboratory practice, panels. (22 hours discussion lab/week for nine weeks)

**PHT 5622** (63-63-7)

### **Case Studies I-C**

Continuation of musculoskeletal case studies and introduction of neurological cases following the clinical decision-making and movement science models. Case studies, small group discussions, laboratory practice, panels. (22 hours discussion lab/week for nine weeks)

**PHT 5624 (63-63-7)****Case Studies I-D**

Continuation of neurological case studies following the clinical decision-making and movement science models. Case studies, small group discussions, laboratory practice, panels. (22 hours discussion lab/week for nine weeks)

**PHT 6610 (63-63-7)****Case Studies I-E**

Continuation of neurological case studies following the clinical decision-making and movement science models. Case studies, small-group discussions, laboratory practice, panels. (22 hours discussion lab/week for nine weeks)

**PHT 6612 (63-63-7)****Case Studies II-A**

Clinical decision model is expanded to include establishment, implementation of a plan of care and determination of its efficiency and effectiveness in meeting patient goals. Systems approach to Physical Therapy interventions and analysis serves as the basis for understanding the physiological effects of PT interventions. Emphasizes interventions that can be delegated to supportive personnel. Case studies, small-group discussions, laboratory practice, panels. (22 hours discussion lab/week for nine weeks)

**PHT 6622 (63-63-7)****Case Studies II-B**

Continuation of cases from *Case Studies II-A* that include interventions that can be delegated to supportive personnel. Case studies, small-group discussions, laboratory practice, panels. (22 hours discussion lab/week for nine weeks)

**PHT 6632 (63-63-7)****Case Studies II-C**

Continuation of cases with focus on plans of care in which interventions are not likely to be delegated to supportive personnel. Case studies, small-group dis-

cussions, laboratory practice, panels. (22 hours discussion lab/week for nine weeks)

**SPC 5614 (36-0-2)****Professional Issues I-A**

Professional issues that impact physical therapy: societal factors of health care economics, ethics, health care law, health policy. Students address concerns about these issues in terms of self as student, the patient, the health care system, the profession, society and self as a physical therapist. Research and critical thinking underlie the approach to professional problems. Case studies, discussion groups, journals, panels, and projects. (4 hours discussion/week for 9 weeks)

**SPC 5624 (36-0-2)****Professional Issues I-B**

Continuation of *Professional Issues IA*. Students must complete Chapter 1 of their research proposal in preparation for graduation thesis requirements. Case studies, discussion groups, journals, panels, and projects. (4 hours discussion/week for 9 weeks)

**SPC 5634 (36-0-2)****Professional Issues I-C**

*Professional Issues* continues with I-A and I-B as the foundation for more complicated problems facing the profession. Students assume more independent responsibility for critical analysis of issues. Case studies, discussion groups, journals, panels, and projects. (4 hours discussion/week for 9 weeks)

**SPC 5644 (36-0-2)****Professional Issues I-D**

Students begin to identify issues for discussion, review, and possible solutions. Students must complete drafts of Chapters I, II, and III of their research proposals. Case studies, discussion groups, journals, panels, and projects. (4 hours discussion/week for 9 weeks)



## Doctor of Science in Physical Therapy

### Introduction

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

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

### Program Outcomes

Graduates of the program will be able to:

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

### Curriculum Overview

The Doctor of Science in Physical Therapy requires 90 semester hours be-

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

|  | <b>Semester Hours</b> |
|--|-----------------------|
| Issues in the Profession of<br>Physical Therapy  | 6                     |
| The Physical Therapist<br>and Critical Inquiry   | 9                     |
| Physical Therapist as Educator   | 9                     |
| Physical Therapist as Consultant   | 6                     |
| Physical Therapist as Manager  | 12                    |
| Project in Advanced Clinical<br>Competency   | 12                    |
| Advanced Clinical Competency<br>Tracks: Pediatrics, Geriatrics,<br>Cardiopulmonary, Electrophysio-<br>logic, Orthopedics, Sports<br>Medicine, Neurologic, and<br>others as they are developed. | <u>36</u>             |
| <b>TOTAL</b>   | <b>90</b>             |

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

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

### Tuition and Fees

Students may enroll as full-time students (12 credits/ term) or as part-time students (6 credits/term). Full-time tuition is \$17,500/year (3 terms); part-time



tuition is \$8,500/year (3 terms). Students are enrolled in January of each year. A \$100 Student Activities Fee is due at each fall registration.

### Requirements for Admission

1. Applicants must be licensed physical therapists who are graduates of schools accredited by the Commission on Accreditation of Physical Therapy Education. Graduates of Physical Therapy schools in other countries who are licensed in the United States are also eligible with review of academic credentials by an appropriate agency and a review of TOEFL scores.
2. Selection of students for the Physical Therapy doctoral program is based on performance during an interview, prior academic performance, clinical experience, and references. We seek students who have qualities such as assertiveness, initiative, leadership, self-understanding, openness, strong communication skills, and who are critical thinkers. Students must also be emotionally stable team players.
3. Applicants must hold at least a bachelor's degree with a cumulative GPA of at least 2.75 on a four-point scale.
4. Completion of either the Graduate Record Examination (GRE) or Miller Analogy Test (MAT).

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

### Application Procedures

Applicants must submit:

1. A completed application form along with a non-refundable application fee of \$50
2. Official transcripts from all undergraduate, professional, and graduate institutions attended, sent to the Office of Admissions, NSU Physical Therapy Program, directly from the institution
3. Three letters of evaluation from persons

- who can evaluate the applicant's performance as a physical therapist and/or potential for doctoral studies
4. Copies of all physical therapy licenses, professional certifications, registrations, or other relevant credentials
5. Official scores from the GRE or MAT

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

### Requirements for Graduation

In order to be eligible for the Sc.D. degree, students shall:

1. Be of good moral character
2. Complete a minimum of 90 semester hours of course work
3. Satisfactorily complete the program requirements for the degree with a minimum overall GPA of 80%, and at least a 70% in each course
4. Satisfactorily meet all financial and library obligations
5. Successfully complete the Project in Advanced Clinical Competency (PACC)
6. Attend in person the rehearsal and commencement program at which time the degree is conferred

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

## Physical Therapy Courses (Doctoral)

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

### **PHT 7010** (54-0-3)

#### **Professional Issues**

Current issues for the physical therapy profession. Students participate in group discussions and complete a written project on a selected topic or question. Seminar format. Required course.

### **PHT 7020** (54-0-3)

#### **Ethical and Legal Issues**

Ethical, legal problems facing physical therapists. Students complete a written project on a selected topic or question. Required course.

### **PHT 7110** (54-0-3)

#### **Critical Inquiry I**

Critical inquiry and its role in patient care. Scientific methodology, research design, evaluation, scientific writing. Students complete critiques of research design, results, conclusions of published research.

### **PHT 7120** (54-0-3)

#### **Critical Inquiry II**

Continuation of *Critical Inquiry I*. Students critique data collection, analysis and results of published research and analyze the applicability to physical therapy patient care.

### **PHT 7130** (54-0-3)

#### **Critical Inquiry III**

Seminar and independent study format to prepare students for the Project in Advanced Clinical Competency (PACC). Students prepare a proposal for their PACC, use current published PT research, and prepare statistical analysis reports following a given format.

### **PHT 7210** (54-0-3)

#### **Teaching and Learning in Physical Therapy**

Concepts of teaching and learning. Students will complete a paper on a selected theory of teaching and learning.

### **PHT 7220** (54-0-3)

#### **Patient Education**

Applies teaching-learning theories to patient education issues. Students will complete a project related to teaching-learning for patient groups or for individual patient care. Offered as independent study as needed. Prerequisite: PHT 7210.

### **PHT 7230** (54-0-3)

#### **Clinical Education**

Issues in clinical education. Students discuss and complete a project on clinical education. Prerequisite: PHT 7210.

### **PHT 7310** (54-0-3)

#### **Consulting Skills**

Concepts of the roles, skills of consultants. Students discuss and complete a paper on selected topics in consultation.

### **PHT 7320** (54-0-3)

#### **Consulting as a Physical Therapist**

Independent study course. Students apply consulting concepts to prepare a report on a hypothetical or actual consulting situation in physical therapy. Offered as needed.

### **PHT 7400** (54-0-3)

#### **Physical Therapy Practice**

Independent study course. Students select a current policy, system, or management issue, prepare a paper discussing its impact on the delivery of physical therapy services. Prerequisite: PHT 7410, PHT 7420, PHT 7430

### **PHT 7410** (54-0-3)

#### **Health Care Policy**

Current health care policy; legislation at the national, state level that impacts the

practice of physical therapy. Students will discuss and complete a report on the impact of health care policy in management of PT services.

**PHT 7420 (54-0-3)**  
**Health Care Delivery Systems**

Issues in various health care systems where physical therapists work. Students discuss and complete a report on management of physical therapy services in a selected delivery system.

**PHT 7430 (54-0-3)**  
**Physical Therapy Management**

Management of fiscal and human resources. Students will participate in discussions and complete a case-study project.

**PHT 7500 (216[self-study]-1-12)**  
**Project in Advanced Clinical Competency**

Students enroll in this course while completing their PACC under the direction of an assigned mentor. Students may enroll for up to 6 semester hours per term and must enroll in 12 semester hours to complete degree requirements. Objectives for the course(s) are individually determined for each student in order to meet degree requirements for a clinical research project.

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

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

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

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

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

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

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

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

## Physical Therapy Student Organizations

### *Student Council*

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

### *Other*

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

American Physical Therapy Association  
The Student Assembly of the American Physical Therapy Association  
The Student Special Interest Group of the Florida Physical Therapy Association

## PUBLIC HEALTH PROGRAM

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

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

### Educational Goals

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

### Admission Requirements

Prospective students are selected by an admissions committee that considers the overall qualities of the applicant. Areas of consideration include personal motivation, knowledge of the public health profession, quality and length of prior health care experience, academic performance and level of achievement, life experiences and recommendations. Personal interviews are offered to the most qualified applicants to assess interpersonal and communication skills, maturity, altruistic attitude and commitment.

### Admissions Requirements For NSU Health Professions Division Students

Applicants for admission must meet the following requirements:

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

**For all other Applicants**

Prior to matriculation, applicants must have:

1. A bachelor's degree from a regionally accredited college or university with a cumulative GPA of at least 3.0 on a four-point scale
2. Official transcripts from all previously attended undergraduate, professional, and graduate institutions
3. Evidence of prior health care-related experience if the candidate does not hold a health professional degree
4. An official GRE, AHPAT, PCAT, MCAT, DAT, OAT, GMAT, or LSAT test score if the candidate does not hold a health-related degree. These scores must be no more than five years old.
5. Three letters of evaluation. Two letters of evaluation from individuals (other than relatives) such as academic advisors, professors, co-workers, or supervisors. One letter of evaluation must be from a public health professional.

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

*The College reserves the right, and the student, by his or her act of matriculation, concedes to the College the right, to require his or 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. The Dean of the College of the primary program in which the student is enrolled also reserves the right to require the student's withdrawal at any time for the above mentioned reasons, or if it is determined that enrollment in the M.P.H. Program is negatively affecting the student's progress in the primary program.*

**Tuition and Fees**

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

**Application Procedure**

The Office of Admissions processes applications on a "rolling" or periodic basis. The application form and a non-refundable fee of \$50 should be submitted as early as possible.

1. A complete application is required before an applicant can be considered. This includes the application form, application fee, a complete set of official transcripts, test scores, letters of evaluation, and copies of all professional certifications, registrations, licenses, or relevant credentialing materials.
2. Official transcripts of all course work attempted at all colleges and universities must be forwarded, by the institutions attended, to the Office of Admissions, NSU Public Health Program. It is the responsibility of the applicant to ensure that arrangements are made for these transcripts to be sent. A final transcript, covering all of the applicant's work, must be forwarded to the Office of Admissions prior to matriculation.
3. Three letters of evaluation. Two letters of evaluation must be sent from individuals (other than relatives) such as academic advisors, professors, co-workers, or supervisors. One letter of evaluation must be from a public health professional.
4. A personal interview will be an integral part of the admission process; however, being granted an interview is not a guarantee of admission. It should also be clearly understood that not all applicants will be granted an interview.

Those who are selected for an interview will be notified of the date and time of such interview by the Office of Admissions.

## Requirements for Graduation

To be eligible to receive the M.P.H. degree, students shall:

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

## Course of Study

The M.P.H. Program requires a minimum of 40 credit hours of study. A maximum of ten credit hours is granted to stu-

dents or to health professionals for public health-related courses taken during other health professions training. A total of six credit hours can be transferred from equivalent public health courses taken at other institutions outside the NSU Health Professions Division. The Dean reserves the right, in special cases, to require more than the minimum of 40 credit hours.

Courses are offered in the evenings and weekends.

## Accreditation

The Public Health Program at Nova Southeastern University was granted Candidacy for Accreditation status by the Council on Education for Public Health (CEPH) in April, 1996. Candidacy is not an accreditation status nor does it assume eventual accreditation by CEPH. Candidacy for Accreditation is a status of affiliation with the CEPH which indicated that the program is progressing toward accreditation. The CEPH accreditation team will visit the Public Health Program at Nova Southeastern University in spring, 1998.

## CURRICULUM OUTLINE

| Required Courses   |  |  | Lecture    | Laboratory | Semester Hours |
|--------------------|--|--|------------|------------|----------------|
| PUH 5001           | Introduction to Epidemiology & Biostatistics*  |  | 30         | 0          | 2              |
| PUH 5066           | Introduction to Basic Medical Sciences*        |  | 45         | 0          | 3              |
| PUH 5067           | Introduction to Clinical Sciences*             |  | 60         | 0          | 4              |
| PUH 5068           | Medical Terminology*                           |  | 4          | 14         | 1              |
| PUH 5220           | Environmental & Occupational Health            |  | 45         | 0          | 3              |
| PUH 5301           | Biostatistics                                  |  | 45         | 0          | 3              |
| PUH 5430           | Epidemiology                                   |  | 45         | 0          | 3              |
| PUH 5510           | Maternal & Child Health                        |  | 45         | 0          | 3              |
| PUH 5512           | Health Policy, Planning & Management           |  | 45         | 0          | 3              |
| PUH 5520           | Legal & Ethical Issues In Public Health        |  | 45         | 0          | 3              |
| PUH 5610           | Computer Applications In Public Health         |  | 15         | 30         | 3              |
| PUH 6001           | Social & Behavioral Sciences Applied to Health |  | 45         | 0          | 3              |
| PUH 6002           | Public Health Project (Practicum)              |  | 15         | 30         | 3              |
| PUH 6604           | Research Methods in Public Health              |  | 30         | 15         | 3              |
| <b>Total Hours</b> |  |  | <b>514</b> | <b>89</b>  | <b>40</b>      |

\* Required for students without health care-related degrees

| Elective Courses |                            |  | Lecture | Laboratory | Semester Hours |
|------------------|----------------------------|--|---------|------------|----------------|
| PUH 6010         | Special Studies & Research |  | 15      | 30-120**   | 3-9**          |
| PUH 6011         | Public Health Internship   |  | 15      | 30-120**   | 3-9**          |

\*\* Semester hours awarded will be based upon individual assignments as determined by the Program Director and the Dean.



## Master of Public Health Courses

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

**PUH-5001 (30-0-2)**  
**Introduction to Epidemiology & Biostatistics**

Basic methods of epidemiology and biostatistics commonly used in clinical research; the evaluation of diagnostic procedures, the methodology for clinical trials evaluating new treatments. Provides basic skills on critical reading of medical literature including basic research design issues and the interpretation of selected statistical analysis of data.

**PUH-5066 (45-0-3)**  
**Introduction to Basic Medical Sciences**

Includes the anatomic study of gross structures of the human body; relevant physiologic principles of the major organ systems; selected pathological changes and related symptomatology; major mechanisms of drug actions, clinical uses, contraindications and interactions, the relationship between host and clinically relevant parasites, bacteria, viruses and other microorganisms, and their diagnosis, clinical features and treatment. For students without a health care-related degree.

**PUH-5067 (60-0-4)**  
**Introduction to Clinical Sciences**

Introduces principles of medical diagnostic procedures: physical diagnosis, laboratory diagnosis, patient management, and prognosis. Includes a description of the medical record, a survey of major diseases and their etiology, transmission, pathophysiology, clinical features, diagnosis, treatment prognosis, and preventive measures. For students without a health care-related degree.

**PUH-5068 (4-14-1)**  
**Medical Terminology**

Self-study course develops knowledge of medical terminology and an understanding of use of terminology reference material.

**PUH-5220 (45-0-3)**  
**Environmental & Occupational Health**

Environmental and occupational factors that contribute to the development of health problems in industrialized and developed countries: toxic substances, pests and pesticides, food quality, air and water pollution, solid and hazardous waste disposal, etc. Includes occupational hazards and injury prevention.

**PUH-5301 (45-0-3)**  
**Biostatistics**

Principles and reasoning underlying modern biostatistics, specific inferential techniques commonly used in public health research. After completing the course, students will be able to apply basic inferential methods in their research endeavors and be able to read and understand statistically-oriented medical research articles.

**PUH-5430 (45-0-3)**  
**Epidemiology**

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

**PUH-5510 (45-0-3)**  
**Maternal & Child Health**

Prevention and health care resources for mothers and children in the U.S.; public health issues affecting mothers and children; public health practices which affect their well-being.



**PUH-5512 (45-0-3)**  
**Health Policy, Planning & Management**  
 Principles and logic involved in health policy, planning and management. History, political and environmental contexts, and the incorporation of population research.

**PUH-5520 (45-0-3)**  
**Legal & Ethical Issues in Public Health**  
 Introduces non-lawyers to the important roles law and ethics play in determining the public's health. Students develop skills in analyzing political, legislative, legal and ethical aspects of public health issues.

**PUH-5610 (15-30-3)**  
**Computer Applications in Public Health**  
 Hands-on computer analysis of data using existing statistical programming. Demonstrates computer applications to existing public health problems and issues, includes data presentation using tables, graphs, charts.

**PUH-6001 (45-0-3)**  
**Social & Behavioral Sciences Applied to Health**  
 Conceptual and practical basis for planning, implementing a range of community-based health programs. Includes issues of health education, public health nutrition; assists in developing specific skills needed for the evaluation of public health programs in the promotion of health/prevention of disease.

**PUH-6002 (15-30-3)**  
**Public Health Project (Practicum)**  
 Individual programs of field observation, practice and/or research. Students work under the direction of faculty advisors to complete a project including a detailed literature review and evaluation, a field work, a data analysis and an individual, publishable report. Field study sites may include doctors'

offices, hospitals, health departments, regulating and planning agencies, health insurers, and other similar health-related locations.

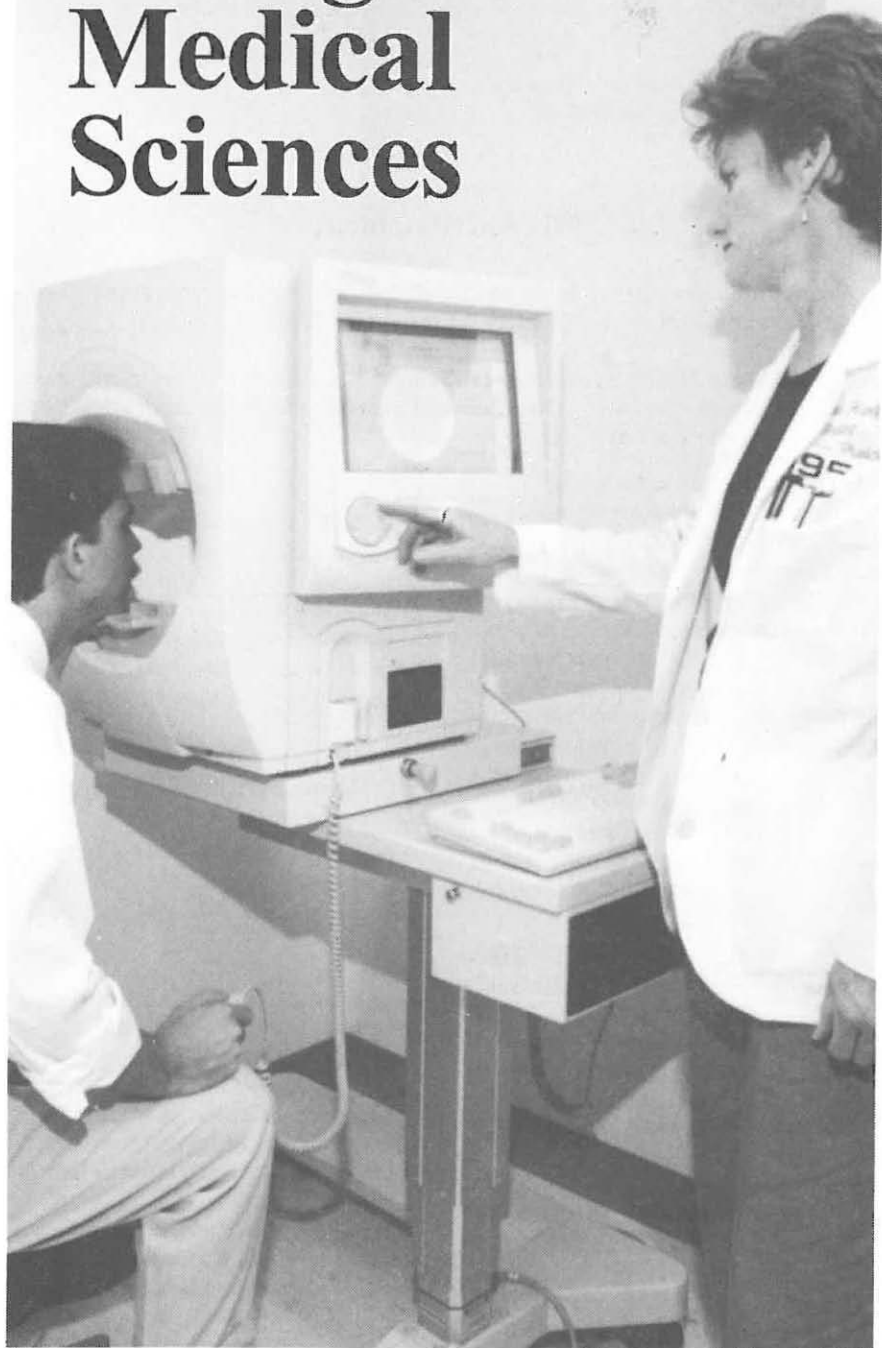
**PUH-6604 (30-15-3)**  
**Research Methods in Public Health**  
 Intermediate level research methods, concepts, principles. Practical issues in the design, conduct, analysis of public health studies; quantitative and qualitative research methodology currently used in public health.

### *Elective Courses*

**PUH-6010 (15-[30-120]-[3-9])**  
**Special Studies and Research**  
 Students investigate selected Public Health topics by utilizing computerized health information systems, literature searches, fieldwork, lectures, seminars and independent research. Under faculty supervision, students will research and present a health survey design, including analysis and implementation, and interpretation of data. Students will develop practical experience in conducting health surveys, studying existing health surveys. Variable credits (3 to 9). *Prerequisites:* PUH 5301, PUH 6604 and permission of academic advisor.

**PUH-6011 (15-[30-120]-[3-9])**  
**Public Health Internship**  
 Advisor/preceptor-guided practical experience in an area or organization related to public health. Experience may involve fieldwork, research, participation, evaluation and understanding of a specific public health program or agency and its orientation, development and organization. Variable credits (3 to 9). *Prerequisites:* PUH 5301, PUH 6604 and permission of academic advisor.

# College of Medical Sciences



## **Mission Statement**

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

To operate a Master of Biomedical Science program and to establish, when authorized by administration, a Doctor of Philosophy degree, either in individual basic sciences or in general basic science.



**Harold E. Laubach,**  
**B.S., M.S., Ph.D.**  
**Dean**

### **Administration**

Harold E. Laubach, B.S., M.S., Ph.D., Dean

### **Degree Programs**

In line with its mission, the College of Medical Sciences presently offers a Master of Biomedical Sciences degree program.

### **Accreditation**

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

### **Admission Requirements**

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

1. A bachelor's degree from a regionally accredited college or university.
2. Completion of 8 semester hours with a 2.0 grade point average in each of the following: General biology, General chemistry, Organic chemistry and General physics, all with laboratory.
3. A minimum cumulative GPA of 2.5.
4. Scores from one of the following: the Medical College Admissions Test

(MCAT), Optometry Admission Test (OAT), Pharmacy College Admissions Test (PCAT), Allied Health Professions Admissions Test (AHPAT), or the Graduate Record Examination (GRE). Scores may not be more than five years old.

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

### **Application Procedures**

Candidates for admission must submit:

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

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

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

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

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

## Schedule of Application for Admission Cycle

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

## Tuition and Fees

1. Anticipated tuition for 1998-99 (subject to change by the Board of Trust-

- ees without notice): \$20,000.00. A student activities fee of \$100 each year is required of all students.
2. Acceptance Fee: \$100.00. This fee is required to reserve the accepted applicant's place in the entering first-year class. This advance payment will be deducted from the tuition payment due on Registration Day, but is not refundable in case of withdrawal. It is payable within two weeks of the applicant's acceptance.
3. Deposit: \$400.00, due March 15, under the same terms as the Acceptance Fee.
4. Pre-registration Fee: \$500.00, due May 15, under the same terms as the Acceptance Fee.
5. Student Activities Fee: \$100.00 payable at each fall registration.

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

## Transfer Credits

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

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

committee and the Dean, will be accepted.

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

### Dismissal and Suspension

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

### Policy on Re-admission

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

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

### Graduation Requirements

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

1. Be of good moral character.
2. Satisfactorily pass all required examinations.
3. Complete a minimum of 40 semester hours of course work.
4. Satisfactorily complete the assigned curriculum requirements for the degree including all assignments, with a numerical GPA of 80 or above.
5. Successfully complete the final comprehensive examination.
6. Satisfactory oral defense of the dissertation.
7. Have satisfactorily met all financial and library obligations.
8. Attend in person the rehearsal and commencement program at which time the degree is awarded.

### Course of Study

The Master of Biomedical Sciences is a full-time degree program that is completed in two years. Students are admitted in August every year. The program includes four semesters of on-campus study. Students select an advisor and a graduate committee who direct their programs of study. Course work is completed along with students in the professional programs and select course work is offered by the College of Medical Sciences. The majority of the courses offered in the College of Medical Sciences are taught to students within other HPD colleges. Students will enroll in selected departmental courses: Introduction to Research, Thesis/Research and Seminar.

The College of Medical Sciences has assigned different numbers to the courses in other colleges, as shown in the following course listings.

## College of Medical Sciences Courses

The College offers courses for graduate credit within the other Health Professions Division Colleges. Each course can be found listed under the appropriate college. Courses are identified by their College of Medical Sciences course number, with specific College-designation and number. Courses are titled in accordance with their titles in their specific college, and may bear no relationship with other courses in this list.

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

### Anatomy

**Chairman and Professor:** G.R.Conover;  
**Professor Emeritus:** F.H.Higginbotham;  
**Professors:** L.Dribin, J.C.Lanning;  
**Associate Professors:** A.Mariassy, R.Casady, R.K.Yip; **Assistant Professor:** D.Hermey

*ANA 5710* (16-16-1)

#### *Histology & Embryology*

Same content as ANA 5310-College of Optometry

*ANA 5714* (54-54-4)

#### *Medical Histology & Embryology*

Same content as ANA 5114-College of Osteopathic Medicine

*ANA 5720* (48-32-4)

#### *Gross Anatomy*

Same content as ANA 5320-College of Optometry

*ANA 5723* (36-36-3)

#### *Neuroanatomy*

Same content as ANA 5423-College of Osteopathic Medicine

*ANA 5726* (108-54-7)

#### *Gross Anatomy*

Same content as ANA 5516-College of Allied Health/Occupational Therapy Program

*ANA 5727* (108-54-7)

#### *Gross Anatomy I*

Same content as ANA 5217-College of Osteopathic Medicine

*ANA 5734* (36-36-3)

#### *Neuroanatomy*

Same content as ANA 5533-College of Allied Health/Occupational Therapy Program

*ANA 5740* (16-32-5)

#### *Neuroanatomy*

Same content as ANA 5340-College of Optometry

*ANA 5750* (60-24-7)

#### *Anatomy*

Same content as ANA 5420-College of Allied Health/Physician Assistant Program

*ANA 6700* (1 to 6 semester hours)

#### *Special Topics*

Topics and hours to be arranged

### Biochemistry

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

*BCH 5700* (48-0-3)

#### *Biochemistry*

Same content as BCH 5300-College of Optometry

*BCH 5716* (108-0-6)

#### *Medical Biochemistry*

Same content as BCH 5116-College of Osteopathic Medicine

**BCH 5720** (64-0-4)**Biochemistry**

Same content as BCH 5200-College of Pharmacy

**BCH 6700** (1 to 6 semester hours)**Special Topics**

Topics and hours to be arranged

**Microbiology****Chairman and Professor:** H.E.Laubach;**Professor:** H.Hada; **Associate Professor:** D.Burris**MIC 5700** (36-0-3)**Microbiology**

Same content as MIC 5400-College of Allied Health/Physician Assistant Program

**MIC 5720** (48-0-3)**Microbiology**

Same content as MIC 5200-College of Pharmacy

**MIC 5726** (108-0-6)**Medical Microbiology &****Immunology**

Same content as MIC 5126-College of Osteopathic Medicine

**MIC 5730** (48-0-3)**Microbiology (Medical Microbiology/Embryology)**

Same content as MIC 5300-College of Optometry

**MIC 6700** (1 to 6 semester hours)**Special Topics**

Topics and hours to be arranged

**Pathology****Chairman and Professor:** M.A.Khin;**Professor Emeritus:** D.C.Bergman;**Associate Professor:** K.Khin**PTH 5700** (48-0-3)**General Pathology**

Same content as PTH 6300-College of Optometry

**PTH 5710** (24-0-2)**Pathology**

Same content as PTH 5410-College of Allied Health/Physician Assistant Program

**PTH 5712** (36-0-2)**Pathology I**

Same content as PTH 6112-College of Osteopathic Medicine

**PTH 5720** (24-0-2)**Clinical Pathology**

Same content as PTH 5420-College of Allied Health/Physician Assistant Program

**PTH 6700** (1 to 6 semester hours)**Special Topics**

Topics and hours to be arranged

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

A.C.Trinidad

**PCO 5700** (16-0-1)**Biomedical Principles**

Same content as PCO 5400-College of Allied Health/Physician Assistant Program

**PCO 5710** (24-0-3)**Pharmacology I**

Same content as PCO 5410-College of Allied Health/Physician Assistant Program

**PCO 5720** (48-0-4)**Pharmacology II**

Same content as PCO 5420-College of Allied Health/Physician Assistant Program



**PCO 6700** (1 to 6 Semester Hours)  
**Special Topics**

**PCO 6710** (48-0-3)  
**General Pharmacology**  
Same content as PCO 6310-College of Optometry

**PCO 6712** (36-0-2)  
**Principles of Pharmacology II**  
Same content as PCO 6112-College of Osteopathic Medicine

**PCO 6720** (24-0-1.5)  
**Ocular Pharmacology**  
Same content as PCO 6320-College of Optometry

## Physiology

**Chairman and Professor:** S.Taraskevich;  
**Associate Professor:** A.Posner; **Assistant Professors:** D.Palazzo, J.Leedham;  
**Adjunct Professor:** W.Arneson

**PHS 5700** (48-0-3)  
**Physiology**  
Same content as PHS 5300-College of Optometry

**PHS 5710** (64-32-5)  
**Anatomy & Pathophysiology I**  
Same content as PHS 5210-College of Pharmacy

**PHS 5720** (48-0-3)  
**Advanced Pathophysiology I**  
Same content as PHS 7210-College of Pharmacy

**PHS 5722** (80-0-5)  
**Anatomy & Pathophysiology II**  
Same content as PHS 5220-College of Pharmacy

**PHS 5726** (108-0-6)  
**Medical Physiology**  
Same content as PHY 5126-College of Osteopathic Medicine

**PHS 5730** (48-0-3)  
**Advanced Pathophysiology II**  
Same content as PHS 7220-College of Pharmacy

**PHS 5740** (48-0-4)  
**Physiology & Pathophysiology**  
Same content as PHS 5400-College of Allied Health/Physician Assistant Program

**PHS 6700** (1 to 6 semester hours)  
**Special Topics**  
Topics and hours to be arranged

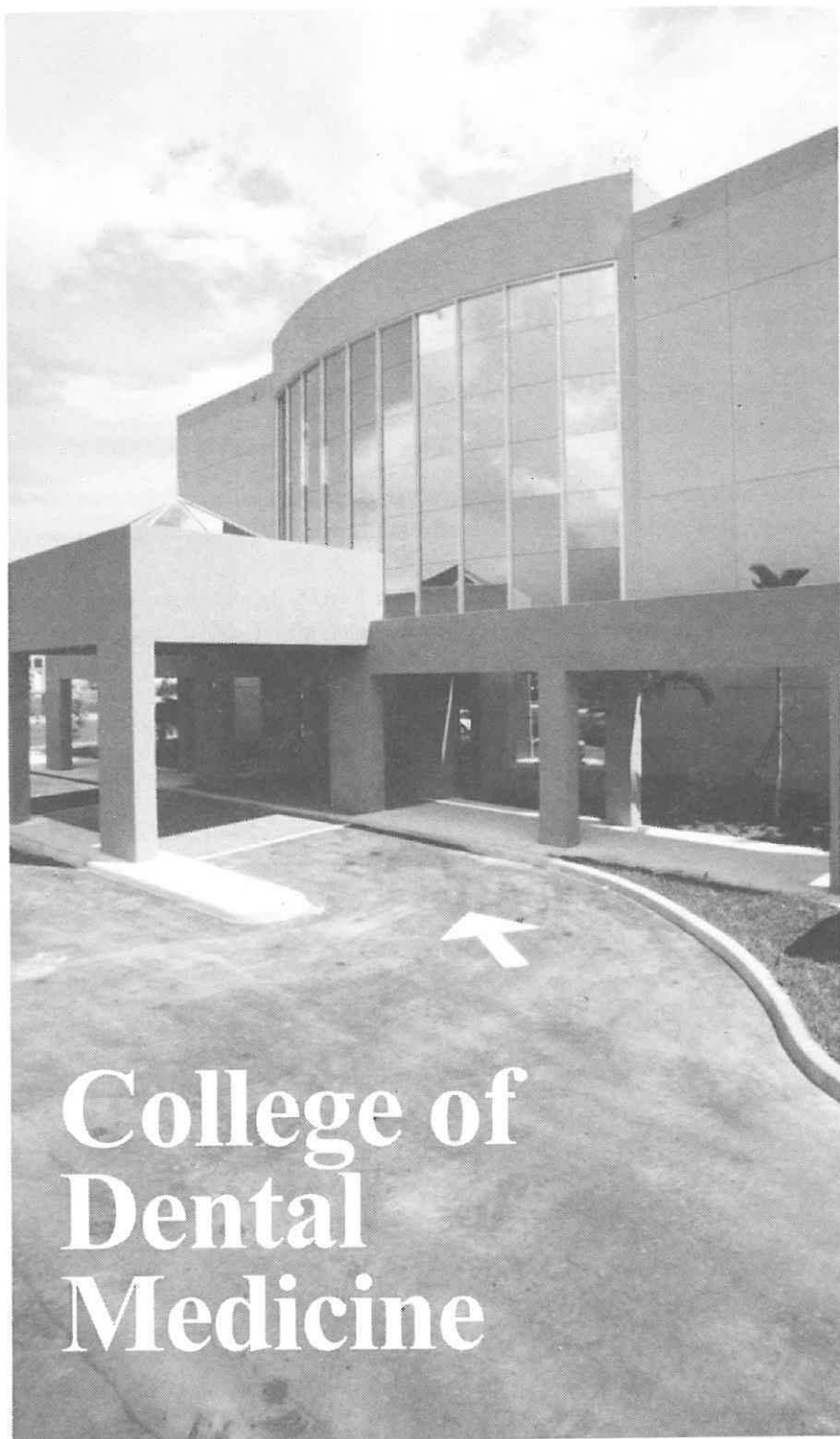
## Required Core Courses

**COMS 5701** (1 to 6 semester hours)  
**Thesis/Research**  
Credit is given for a supervised, original study of an area of medical science.  
Topics and hours to be arranged

**COMS 5702** (1 to 6 semester hours)  
**Seminar**  
Students and faculty observe and present research seminars on selected topics.  
Topics and hours to be arranged

**COMS 5711** (16-0-1)  
**Introduction to Research**  
The course emphasizes the importance of data collection, research methods, and application of scientific thought to research findings.

**COMS 6700** (1 to 6 semester hours)  
**Special Topics**  
Course work is designed to advance knowledge in a specific area of science.  
Topics and hours to be arranged.



# College of Dental Medicine

## **Mission Statement**

To educate and train our students in order to ensure their competency to practice the art and science of the dental profession.

The College of Dental Medicine requires our graduates to be biologically knowledgeable, technically skilled, compassionate, and sensitive to the needs of all patients and the community.

Our graduate dentist will be a practitioner who adheres to the highest standards of ethics and exhibits exemplary performance and behavior while effectively delivering the highest quality of health care.



Seymour Oliet, D.D.S.  
Dean

## Administration

Seymour Oliet, D.D.S., Dean

S. Sigmund Stahl, D.D.S., M.S., Executive Associate Dean for Administration

Edward Reetz, D.M.D., M.S.D., Associate Dean for Academic Affairs

Robert Uchin, D.M.D., Associate Dean for Extramural Affairs

Francis A. DePiano, Ph.D., Assistant Dean for Dental Student Affairs

Peter Keller, D.D.S., Assistant Dean for Clinical Affairs

## Dental Medicine

If you are considering a career in dentistry, your education will focus on producing a competent, confident, and mature professional. You will be trained to function as a highly qualified primary care practitioner, capable of delivering total comprehensive dental care to patients of all ages.

For the highly trained and skilled dentist, career opportunities are almost limitless. The options can be fulfilling and rewarding. The skilled dentist may choose to practice individually in urban, suburban, or rural environments; or may join an established, respected and successful practice; or may choose public service in governmental agencies, and the military. The skilled dentist may opt to become a specialist with additional advanced education in such fields as endodontics, oral pathology, oral surgery, orthodontics, pediatric dentistry, periodontics, prosthodontics, or public health dentistry.

For rewards so great, the training is extensive and complete. The nationally recognized faculty of Nova Southeastern University College of Dental Medicine will prepare you to take your place

as a leader among oral health care providers.

A dynamic career awaits a committed individual.

## Accreditation

Programs in dentistry, endodontics, orthodontics and dentofacial orthopedics, periodontics, and pediatric dentistry are accredited by the Commission on Dental Accreditation. The Commission is a specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611.

## Facilities

The College of Dental Medicine will utilize the facilities of the recently constructed \$42 million physical plant of the University's Health Professions Division. A separate building consisting of 70,000 square feet of space has been added for the College of Dental Medi-

cine and will house a clinic providing modern dental care, a postgraduate student dental clinic, a faculty intramural practice, a clinical simulation laboratory and laboratory facilities to support the clinics, seminar rooms, a 160-seat auditorium, and offices of the Dean, faculty, administration and staff.

## Requirements for Admission

The College of Dental Medicine selects students based on pre-professional academic performance, Dental College Admissions Test (DAT) scores, personal interview, written application and letters of evaluation.

1. Prior to matriculation, applicants must have completed a minimum of 90 semester hours of course work from a regionally accredited college or university. Not more than 60 semester hours from community or junior college will be applied to the 90-semester hour minimum.
2. Students should have a cumulative GPA of 2.5 or higher on a four-point scale, and must have earned a grade of 2.0 or better in each of the following required courses:

|   |                  |
|---|------------------|
| General biology   | 8 semester hours |
| including laboratory (Zoology and Microbiology are acceptable alternatives) |                  |
| General chemistry   | 8 semester hours |
| including laboratory  |                  |
| Organic chemistry   | 8 semester hours |
| including laboratory  |                  |
| Physics   | 8 semester hours |
| including laboratory  |                  |
| English composition   | 3 semester hours |
| English literature  | 3 semester hours |

Courses strongly recommended:

Upper division biology courses (in-

cluding anatomy, histology, biochemistry, immunology, and physiology), courses in social sciences, principles of management, accounting, communication, foreign languages, art and sculpture will contribute to a broad educational background.

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

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

Inquiries should be directed to:

**Office of Admissions**  
**Nova Southeastern University**  
**College of Dental Medicine**  
**3200 S. University Drive**  
**Ft. Lauderdale, FL 33328**  
**(954) 262-1101, or**  
**(800) 356-0026, Ext. 1101**

## Application Procedure

1. Nova Southeastern University College of Dental Medicine uses the American Association of Dental Schools Application Service (AADSAS). AADSAS takes no part in the selection of students. The deadline for AADSAS application is April 1, 1998, for the class entering August, 1998. Applications are available from:

**American Association of Dental Schools Application Service (AADSAS)**  
**1625 Massachusetts, NW**  
**6th Floor**  
**Washington, DC 20036-2212**  
**Tel: (202) 667-1886**

Materials to be mailed to AADSAS include:

A. AADSAS application

- B. An official transcript from the Registrar of each college or university in which the student was enrolled (mailed directly by the college to AADSAS)
  - C. Dental College Admissions Test (DAT) scores
2. The applicant should mail the following materials to the College of Dental Medicine:
- A. The supplementary application sent to the applicant by the College
  - B. A non-refundable application fee of \$ 50.00
  - C. An evaluation by a pre-professional health advisor or committee is required from the applicant's undergraduate institution. If this evaluation cannot be provided, three individual letters of evaluation are 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 character; otherwise, they should be from persons (non-relatives) who can provide an evaluation to the Committee on Admissions.
  - D. A letter of evaluation from a dentist is highly recommended but not required.

Upon receipt of the completed application and the required credentials, the Committee on Admissions will select applicants for interview and those selected will be notified in writing. Not all applicants will be granted an interview. All applicants who are admitted to the College must be interviewed, but an invitation to appear for an interview should not be construed as evidence of acceptance. Notice of acceptance or other action by the Committee on Admissions will be on a "rolling" or periodic sched-

ule; therefore, early completion of the application is in the best interest of the student.

Although the Committee on Admissions realizes that the majority of applicants take the DAT in October, conditional acceptances may be made to exceptional candidates pending receipt of the Spring DAT test results.

A final transcript, covering all of the applicant's work, must be forwarded to the Office of Admissions prior to matriculation.

Incomplete applications will not be considered. If your file will not be complete prior to the deadline, please attach a statement to the NSU-CDM Supplemental Application for Admission explaining what documents will be submitted after the deadline and the reason for their delay. Decisions to review late applications are at the discretion of the Committee on Admissions.

### **Advanced Standing For International Graduates**

The College of Dental Medicine has available a number of openings for graduates of non-U.S. dental schools who wish to earn a U.S. dental degree and to qualify for licensure in the United States.

### **Admission Requirements For Advanced Standing For International Graduates**

The College of Dental Medicine selects students based on academic record, letters of evaluation, scores in the Test of English as a Foreign Language (TOEFL), scores in the Test of Spoken English (TSE), a passing score (75) on Part I of the National Dental Board Examination, and personal interview.

In order to qualify, the applicant must have received, prior to matriculation in this advanced standing program, a D.M.D., D.D.S., or their equivalent from a non-U.S. dental school.

### **Application Procedure For Advanced Standing For International Graduates**

The applicant should mail the following materials to the Office of Admissions, College of Dental Medicine:

1. The completed College of Dental Medicine application form for advanced standing for International Graduates
2. A non-refundable application fee of \$50.00
3. Official scores from the Test of English as a Foreign language (TOEFL) and Test of Spoken English (TSE)

The applicant must have sent directly to the Office of Admissions, College of Dental Medicine:

1. One official transcript sent directly from each college, professional school, or university attended. Transcripts must be sent directly from the institutions attended by the applicant to the Office of Admissions, College of Dental Medicine. Course work taken at a foreign institution must be evaluated for U.S. institution equivalency by one of the three services listed below. You should contact:

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

**Joseph Silney & Associates, Inc.**  
International Education Consultants  
Coral Gables, FL 33124  
(305) 666-0233  
or

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

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

2. Official National Board scores. Please request the secretary of the National Board of Dental Examiners to forward to the Office of Admissions the applicant's scores for Part I and/or Part II of the Dental Boards. The National Board is located at 211 East Chicago Avenue, Chicago, Illinois 60611.
3. Three letters of evaluation. They may be completed by dental school faculty members who are well acquainted with the applicant's abilities or by individuals who can provide information relevant to the applicant's potential.

Tuition and fees are the same as for regular students, as described elsewhere in this catalog.

### **Tuition and Fees**

1. Anticipated tuition for 1998-99 (subject to change by the Board of Trustees without notice): \$25,500, plus a student activities fee of \$100 each year is required from all students.
2. Acceptance Fee - \$500. This fee is required to reserve the accepted applicant's place in the entering first-year class. This advance payment will be deducted from the tuition payment due on Registration Day, but is not refundable in the event of a withdrawal. It is payable within two weeks of an applicant's acceptance.
3. Deposit - \$500, due March 15, under the same terms as the Acceptance Fee.
4. Pre-registration Fee - \$1,000, due May 15, under the same terms as the Acceptance Fee.

The first semester's tuition and fees, less the \$2,000 previously paid, are due on or before Registration Day. Tuition for each subsequent semester is due on

or before the appropriate Registration Day. Students will not be admitted until their financial obligations have been met. The financial ability of applicants to complete their training at the College is important because of the limited number of positions available in each class. Applicants should have specific plans for financing four years of professional education. This should include tuition, living expenses, books, equipment, and miscellaneous expenses.

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

## Expenses and Financial Aid

Students should anticipate the following approximate expenses:

### For books:

|             |        |
|-------------|--------|
| First year  | \$1200 |
| Second year | \$1200 |
| Third year  | \$500  |
| Fourth year | \$500  |

### For instruments and equipment:

|             |        |
|-------------|--------|
| First year  | \$7000 |
| Second year | \$4000 |
| Third year  | \$1000 |
| Fourth year | \$1000 |

These costs are equivalent to other private dental schools. Living expenses are estimated to cost \$13,000 for a nine-month academic year.

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

The purpose of the Student Financial Aid Program at Nova Southeastern University is to help as many qualified students as possible to complete their health professions educa-

tion. Various loans, scholarships, and grants are available to qualified students to help ease the high cost of a health professions education. These financial assistance programs are described in a separate University publication: *Financial Planning For Your Health Professions Education*.

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

## Suspension/Dismissal

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

Failure to complete successfully any repeated Externship or Clerkship rotations will result in automatic suspension, and may lead to dismissal. This will apply regardless of the student's GPA.

Failure of two or more courses, Externship or Clerkship rotations, regardless of remediation status, will result in automatic suspension and may lead to dismissal.

Any student falling below standards in the above categories may be required to repeat courses (at student's expense), at the discretion of the Dean's Office. Unprofessional conduct will result in dismissal. Any student with an unsatisfactory grade point average for two semesters will be suspended and may be dismissed.

## Re-Admission Policy

Students may re-apply for admission if a reasonable time has elapsed since the dismissal. Re-admission will be at the discretion of the Dean. The applicant is required to present adequate evidence that the factors which caused the prior poor academic performance have



changed significantly so that there is a reasonable expectation that the applicant can perform satisfactorily if permitted to resume his or her college study. It is noted that the student's prior academic record will remain part of his or her overall academic record, but none of the prior grades will be calculated in the new GPA.

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

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

### Graduation Requirements

To receive a degree from the College of Dental Medicine, every student must fulfill the following requirements:

1. Be of good moral character
2. Have satisfactorily passed all required examinations
3. Complete a minimum of 132 semes-

ter hours of course work in the College of Dental Medicine within seven years.

4. Satisfactorily complete all academic courses and degree requirements, with a GPA of 2.0 or numerical average of 70% or above.
5. Satisfactorily meet all financial and library obligations.
6. Attend in person the rehearsal and commencement program at which time the degree is awarded.

### Course of Study

The College of Dental Medicine embodies an innovative, newly developed curriculum designed to graduate competent clinicians devoted to primary care and total comprehensive care of each patient.

The College is closely allied with Nova Southeastern University College of Osteopathic Medicine, and the other health profession schools of the NSU Health Professions Division in proximity as well as in academic collaboration. Courses in medicine, as well as basic biomedical sciences, will prepare students to treat the physically-well and the medically-compromised patients with assured quality care.

Early introduction into clinical settings, under the preceptorship of faculty master-clinicians, will enable the student to achieve a better understanding of the dynamics of the patient/dentist relationship, and will reinforce classroom instruction in basic and behavioral sciences into management and delivery of dental health care.

Students will be taught the importance of teamwork in an efficient, modern health care delivery system.

## CURRICULUM OUTLINE

## Doctoral Program

## First Year

| First Semester     |  | Lecture    | Laboratory | Semester Hours |
|--------------------|--|------------|------------|----------------|
| DANA 1125          | Human Gross Anatomy                              | 108        | 90         | 8              |
| DBCH 1114          | Biochemistry                                     | 72         | 0          | 4              |
| DBCP 1125          | Introduction to Computers                        | 18         | 0          | 1              |
| DBPR 1111          | Introduction to the<br>Dental Profession         | 18         | 0          | 1              |
| DDPV 1111          | Disease Prevention                               | 18         | 0          | 1              |
| DHST 1123          | Histology (Microscopic<br>Anatomy)               | 36         | 72         | 3              |
| DPER 1111          | Periodontics I                                   | 18         | 0          | 1              |
| DRBM 1111          | Principles of Dental Materials                   | 18         | 0          | 1              |
| DRDA 1112          | Restorative Dentistry and<br>Dental Materials I  | 36         | 108        | 4              |
| DRDB 1124          | Restorative Dentistry and<br>Dental Materials II | 36         | 108        | 4              |
| <b>Total Hours</b> |  | <b>378</b> | <b>378</b> | <b>28</b>      |

| Second Semester    |   | Lecture    | Laboratory | Semester Hours |
|--------------------|---|------------|------------|----------------|
| DAO 1223           | Oral Histology & Embryology                       | 54         | 0          | 3              |
| DBCP 1224          | Neuroanatomy/Head &<br>Neck Anatomy               | 72         | 36         | 4              |
| DBN 1121           | Dental Nutrition                                  | 18         | 0          | 1              |
| DMC 1214           | Microbiology                                      | 72         | 0          | 4              |
| DMR 2111           | Radiology I                                       | 18         | 0          | 1              |
| DPER 1221          | Periodontics II                                   | 18         | 0          | 1              |
| DPY 1217           | Medical Physiology                                | 126        | 0          | 1              |
| DRD 1136           | Restorative Dentistry and<br>Dental Materials III | 54         | 162        | 6              |
| <b>Total Hours</b> |   | <b>432</b> | <b>198</b> | <b>21</b>      |

## Second Year

| First Semester     |  | Lecture   | Laboratory | Semester Hours |
|--------------------|--|-----------|------------|----------------|
| DET 2212           | Endodontic Technique                   | 18        | 54         | 2              |
| DMA 2211           | Anesthesia & Pain<br>Control I (Local) | 18        | 0          | 1              |
| DMO 2211           | Oral Medicine I                        | 18        | 0          | 1              |
| DMR 2221           | Radiology II                           | 18        | 0          | 1              |
| <b>Total Hours</b> |  | <b>72</b> | <b>54</b>  | <b>5</b>       |

## Second Year

| Second Semester    |  | Lecture    | Laboratory | Semester Hours |
|--------------------|--|------------|------------|----------------|
| DOP 2211           | Orthodontic Diagnostic<br>Considerations         | 18         | 0          | 1              |
| DOP 2222           | Orthodontic Treatment<br>Considerations          | 18         | 0          | 1              |
| DOP 2232           | Pediatric Dentistry                              | 18         | 54         | 2              |
| DPA 2113           | General Pathology                                | 54         | 0          | 3              |
| DPER 2131          | Periodontics III                                 | 18         | 0          | 1              |
| DPER 2241          | Periodontics IV                                  | 18         | 0          | 1              |
| DPH 2131           | Pharmacology I (General)                         | 72         | 0          | 4              |
| DPH 2224           | Pharmacology II (Dental<br>Therapeutics)         | 72         | 0          | 4              |
| DRD 2146           | Restorative Dentistry and<br>Dental Materials IV | 54         | 162        | 6              |
| <b>Total Hours</b> |  | <b>342</b> | <b>216</b> | <b>22</b>      |

*Third Year*

| <b>First Semester</b> |  |  | <b>Lecture</b> | <b>Laboratory</b> | <b>Semester Hours</b> |
|-----------------------|--|--|----------------|-------------------|-----------------------|
| DEC 3121              | Clinical Endodontics                   |  | 18             | 0                 | 1                     |
| DMA 3121              | Anesthesia & Pain Control II (General) |  | 18             | 0                 | 1                     |
| DMM 3111              | Internal Medicine I                    |  | 18             | 0                 | 1                     |
| DMO 3121              | Oral Medicine II                       |  | 18             | 0                 | 1                     |
| DPA 2222              | Oral Pathology                         |  | 36             | 0                 | 2                     |
| DPER 3151             | Periodontics V                         |  | 18             | 0                 | 1                     |
| DSR 2211              | Oral & Maxillofacial Surgery           |  | 18             | 0                 | 1                     |
| <b>Total Hours</b>    |  |  | <b>144</b>     | <b>0</b>          | <b>8</b>              |

*Third Year*

| <b>Second Semester</b> |   |  | <b>Lecture</b> | <b>Laboratory</b> | <b>Semester Hours</b> |
|------------------------|---|--|----------------|-------------------|-----------------------|
| DBE 3211               | Ethics & Jurisprudence                  |  | 18             | 0                 | 1                     |
| DBM 3211               | Practice Management                     |  | 18             | 0                 | 1                     |
| DME 3111               | Evidence-Based Clinical Dental Medicine |  | 18             | 0                 | 1                     |
| DMM 3221               | Internal Medicine II                    |  | 18             | 0                 | 1                     |
| DMO 3231               | Oral Medicine III                       |  | 18             | 0                 | 1                     |
| DPER 3261              | Periodontics VI                         |  | 18             | 0                 | 1                     |
| DPT 3111               | Patient Management                      |  | 18             | 0                 | 1                     |
| <b>Total Hours</b>     |   |  | <b>126</b>     | <b>0</b>          | <b>7</b>              |

*Fourth Year*

| <b>First Semester</b> |   |  | <b>Lecture</b> | <b>Laboratory</b> | <b>Semester Hours</b> |
|-----------------------|---|--|----------------|-------------------|-----------------------|
| DMB 3111              | Biostatistics                           |  | 18             | 0                 | 1                     |
| DMS 4111              | Oral Manifestations of Systemic Disease |  | 18             | 0                 | 1                     |
| DPER 4171             | Periodontics VII                        |  | 18             | 0                 | 1                     |
| <b>Total Hours</b>    |   |  | <b>54</b>      | <b>0</b>          | <b>3</b>              |

**Second Semester**

| <b>Second Semester</b> |                   |  | <b>Lecture</b> | <b>Laboratory</b> | <b>Semester Hours</b> |
|------------------------|-------------------|--|----------------|-------------------|-----------------------|
| DPER 4281              | Periodontics VIII |  | 18             | 0                 | 1                     |
| <b>Total Hours</b>     |                   |  | <b>18</b>      | <b>0</b>          | <b>1</b>              |

**Total**

|             |            |           |
|-------------|------------|-----------|
| <b>1566</b> | <b>846</b> | <b>95</b> |
|-------------|------------|-----------|

## College of Dental Medicine Courses

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

### Anatomy

**Chairman and Professor:** G.R.Conover;  
**Professor Emeritus:** F.H.Higginbotham;  
**Professors:** L.Dribin, H.Kaplan, J.Kronman, J.C.Lanning, A.Ponce, H.Remnick; **Associate Professor:** A.Mariassey; **Assistant Professors:** S.C.Barry, R.E.Yip; **Clinical Assistant Professors:** W.Balton, S.Caplan

#### *DHST 1123* (36-72-3)

##### *Histology (Microscopic Anatomy)*

Principles of cell biology, normal microscopic and sub-microscopic anatomy of cells, tissues and organs correlated with gross anatomy and physiologic function. Microscopic anatomy of normal tissues and organs.

#### *DANA 1125* (108-90-8)

##### *Human Gross Anatomy*

Human anatomy with an emphasis on the thorax, neck, and head. Lecture sessions and laboratory dissection and prosection, organogenesis of regions dissected. Radiological anatomy.

**DAN 1224 (72-36-4)****Neuroanatomy/  
Head & Neck Anatomy**

Human nervous system, cranial nervous system, their central connections and pathways. Relationship between form and function, problem-based learning modules of clinical correlation of head and neck anatomy to lesions and pathology.

**Behavioral Sciences**

**Professors:** F.DiPiano, J.Galbally, M.Morris; **Clinical Associate Professor:** P.Keller

**DBCP 1112 (18-0-1)****Introduction to Computers**

Basic computer function, keyboard and GUI, file management, search engines (including MEDLINE), word processing, communication (modem usage, E-mail). Terminology and computer functions, mouse, GUI function (Windows 95) and file management. Internet hook-up, standard internet and literature searches using MEDLINE.

**DBPR 1111 (18-0-1)****Introduction to the  
Dental Profession**

The scope of dentistry and its specialties (Prosthodontics, Periodontics, Endodontics, Pediatric Dentistry, Orthodontics, Oral Surgery, Oral Pathology, Public Health). Research and teaching career opportunities.

**DBM 3211 (18-0-1)****Practice Management**

Practice management and organizational theory, economic theory, practical aspects of managing a Dental practice.

**DBE 3211 (18-0-1)****Ethics & Jurisprudence**

Ethical and legal issues relating to the practice of Dentistry.

**DBT 3111 (18-0-1)****Patient Management**

Recognition of anxiety, interviewing techniques, history taking, behavior management, patient relations.

**Biochemistry**

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

**DBCH 1114 (72-0-4)****Biochemistry**

Concepts and principles of biochemistry of normal and pathologic human life processes. Structures, functions and metabolism of the carbohydrates, lipids, amino acids, proteins and nucleic acids, genetics, clinical enzymology, coagulation, muscle metabolism, porphyrin and erythrocyte metabolism, cancer, endocrinology, and dental biochemistry.

**DBN 1221 (18-0-1)****Dental Nutrition**

Principles of nutrition, biochemical roles of dietary constituents, digestion, absorption, biochemical roles, and therapeutic potentials of foodstuffs and their constituents.

**Endodontics**

**Chairman and Professor:** R.Zelikow; **Professors:** S.Oliet, R.Uchin; **Visiting Professors:** D.Arens, S.Seltzer, C.Torneck; **Associate Professors:** S.Dorn, M.Taylor, B.H.Wiener; **Clinical Associate Professor:** R.Gittess; **Clinical Assistant Professors:** M.Brenner, G.Heinsen, D.Knight, M.O'Keefe, J.Rauch

**DET 2212 (18-54-2)****Endodontic Technique**

Concepts of endodontics, using psychomotor skills, uncomplicated endodontic procedures, clinically acceptable endodontic treatment. Scope of

endodontic therapy, basic concepts and clinical aspects of endodontics.

**DEC 3121** (18-0-1)

**Clinical Endodontics**

Fundamental principles of the practice of clinical endodontics, prevention of pulpal disease, diagnosis of periapical disease and treatment procedures of pulpotomy, pulpectomy, endodontic therapy, and endodontic surgery.

**Microbiology**

**Chairman and Professor:** H.E. Laubach;  
**Professor:** H.Hada; **Visiting Professor:** N. Willett, **Associate Professor:** D.Burris

**DMC 1214** (72-0-4)

**Microbiology**

Basic medical aspects of immunology, bacteriology, virology, mycology, and parasitology, including the taxonomy, morphology, epidemiology, growth cycles, pathogenesis, and treatment. Emphasizes oral microbial systems.

**Oral Medicine**

**Chairman and Professor:** H.Kaplan;  
**Professors:** A.Ponce, H.Remnick, E.Reetz, S.Stahl; **Clinical Assistant Professor:** S.Caplan

**DMA 2211** (18-0-1)

**Anesthesia & Pain Control I (Local)**

Theory of nerve conduction, principles of action potential, mode of action of local anesthetics, polarity in conduction of impulses.

**DMA 3121** (18-0-1)

**Anesthesia & Pain Control II (General)**

This course introduces those techniques and medications which are available to minimize, eliminate or alter pain perception and reaction to pain in the dental

setting. Topics cover from the use of oral, parenteral and inhalation agents to eliminate pain.

**DMB 3111** (18-0-1)

**Biostatistics**

Methodology of statistical evaluation. Perform statistical evaluation, reason for proper statistical design; the value of statistical design to proper research design.

**DME 3111** (18-0-1)

**Evidence-Based Clinical Dental Medicine**

Methods for critical evaluation of scientific literature and research. Differentiate between well-designed and poorly-designed research, formulate a well-designed research project. Research evaluation and literature review. Introduction to the reasons for studying scientific method and evaluating literature.

**DMM 3111** (18-0-1)

**Internal Medicine I**

Cardiovascular disease, pulmonary disorders, endocrinology and metabolism, allergy and immunology, hematology and oncology, infectious diseases, dermatology, nephrology and genitourinary disorders, gastroenterology, rheumatology, neuromuscular diseases, bone and joint disorders and geriatrics.

**DMM 3221** (18-0-1)

**Internal Medicine II**

Relevant immunologic mechanisms, humoral and cell-mediated immunity, immunoglobulins, mechanism of acute allergic symptoms, anaphylaxis, and miscellaneous mechanisms, lymphoproliferative disorders, Hodgkin's and non-Hodgkin's lymphomas, sarcoidosis, amyloidosis, types of infectious agents, and routes of transmission.

**DAO 1223** (54-0-3)**Oral Histology & Embryology**

Microscopic tissue of the oral cavity, face and palate development, facial defects and rationale of treatment. Microscopic appearance of hard and soft tissues of the mouth, interstitial fibers of the periodontal ligament, masticatory mucosa including the lamina, dorsal and ventral surfaces of the tongue, floor of the mouth and attached and lining mucosa, structure and ultrastructure of the junctional and sulcular epithelium.

**DMS 4111** (18-0-1)**Oral Manifestations of Systemic Disease**

Clinical manifestations of common systemic disorders in making a tentative presumptive diagnosis and developing a differential diagnosis.

**DMO 2211** (18-0-1)**Oral Medicine I**

Comprehensive medical history and physical examination of head and neck. Specific medical laboratory tests to interpret and integrate their results with the physical examination. Covers OSHA regulations and medical emergencies.

**DMO 3121** (18-0-1)**Oral Medicine II**

Clinical diagnosis and treatment of primary oral cavity/head and neck disease, and systemic pathology manifesting in the oral cavity/head and neck.

**DMO 3231** (18-0-1)**Oral Medicine III**

Continuation of clinical diagnosis and treatment of primary oral cavity/head and neck disease, and systemic pathology manifesting in the oral cavity/head and neck.

**DPA 2222** (36-0-2)**Oral Pathology**

Oral disease and oral manifestations of the disturbances in growth and development; diseases of microbial origin; injury and repair; metabolic disturbances and nutrition; diseases of specific systems, both oral/head and neck and organ system pathology, manifesting in the oral cavity/head and neck region.

**DMR 2111** (18-0-1)**Radiology I**

Intraoral radiographic technique and interpretation, making diagnostic-quality intraoral roentgenograms with minimal radiation exposure to the patient.

**DMR 2221** (18-0-1)**Radiology II**

Radiographic technique and radiographic differential diagnosis of various dental disorders, extraoral radiographic techniques.

**Oral and Maxillofacial Surgery**

**Chairman and Associate Professor:** M.Zola; **Professor:** H.Kaplan; **Visiting Professor:** R.Fonseca; **Clinical Assistant Professor:** T.Splaver

**DSR 2211** (18-0-1)**Oral & Maxillofacial Surgery**

Fundamentals of tooth extraction, soft tissue surgery, patient evaluation, management of medical-dental emergencies, surgical management of complications, salivary glands, cysts and systemic disease or drug involvement. Dento-facial orthopedics and trauma.

**Orthodontics**

**Chairman and Professor:** M.Meister; **Professor:** J.Kronman; **Clinical Professor:** W.J.Thompson; **Clinical Associate Professors:** K.Ellins, R.S.Masella

**DOP 2211** (18-0-1)**Orthodontic Diagnostic Considerations**

Introduces orthodontic diagnostic considerations in evaluating a patient. Students learn to recognize malocclusion, classify malocclusion and construct a problem list.

**DOP 2222** (18-34-2)**Orthodontic Treatment Considerations**

Introduces students to principles and concepts used in treatment in orthodontics and dentofacial orthopedics, and to orthodontic mechano-therapy. Enables students to engage in active participation in clinical experience.

**Pediatric Dentistry**

**Chairman and Professor:** D.J.Forrester; **Professor:** H.Turner; **Clinical Assistant Professors:** E.S.Nacht, M.P.Portilla, R.L.Sherman, D.P.Trupkin

**DOP 2232** (18-54-2)**Pediatric Dentistry**

Behavioral and interpersonal components of working with children, basic information related to pediatric dentistry, concepts of facial and dental growth and development, primary and permanent teeth.

**Pathology**

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

**DPA 2113** (54-0-3)**General Pathology**

Concepts of pathology, systematic diseases, etiology, pathogenesis, morphologic alterations and effects of diseases. Processes of diseases, explanation for symptoms,

signs and biochemical changes, diagnosis, prognosis and treatment of diseases.

**Pharmacology**

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

**DPH 2114** (72-0-4)**Pharmacology I (General)**

Introduces pharmacological concepts and principles, clinical indications, contraindications, risks, complications, and toxicity of drugs and pharmacological agents.

**DPH 2224** (72-0-4)**Pharmacology II (Dental Therapeutics)**

Particular emphasis on the drugs and drug interactions important to the dentist as well as the principles and concepts of pharmacology and pharmacological actions and drug interactions.

**Physiology**

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

**DPY 1217** (126-0-7)**Medical Physiology**

Physical and chemical factors and processes responsible for the development, progression and procreation of life, organ systems approach, cell function, membrane translocation, electrophysiology, muscle physiology, neurophysiology, and cardiovascular, renal, respiratory, gastrointestinal, endocrine and nervous systems.

**Periodontics**

**Chairman and Professor:** S.Stahl; **Clinical Associate Professors:** C.Galin, M.Rosenberg



**DDPV 1111 (18-0-1)****Disease Prevention**

Disease prevention as a basis for clinical dental practice, dental caries and periodontal disease as dental disease processes, the basic concepts of disease prevention, patient-centered and community-centered modes of treatment, the role of fluoride in disease prevention, methods of clinical research, relationship between caries and periodontal disease processes.

**DPER 1111 (18-0-1)****Periodontics I**

Anatomical and histologic structures of the periodontium, recognition of the health of the periodontium, periodontal diagnosis, instrumentation and periodontal charting assessing the state of gingival health. Overview of periodontics, definitions of basic terms.

**DPER 1221 (18-0-1)****Periodontics II**

Contents of the normal gingival crevice microbiology, gingival microbiota, formation of plaque. Correlates clinical procedures with the scientific (basic science) rationale, scope of periodontics, signs and symptoms of gingival health, basic science data supporting the clinical observations, recording of clinical data, and the ability to perform treatments designed to maintain gingival health.

**DPER 2131 (18-0-1)****Periodontics III**

Earliest gingival inflammatory lesion, gingivitis, signs and symptoms, underlying etiology, microbial shifts, diagnosis and treatment of gingivitis and the rationale for treatment. Clinical, microbiologic and histologic responses to local irritants, host responses, inflammation and loss of attachment.

**DPER 2241 (18-0-1)****Periodontics IV**

Histopathology of periodontal lesions, root planing, early periodontitis, gingivectomy. Histopathology of injury and repair, mobile tooth, diagnosis and treatment of the early gingival/periodontal lesion, rationale for maintenance of gingival health.

**DPER 3151 (18-0-1)****Periodontics V**

Diagnosis and treatment of early-to-moderate periodontitis, etiology and histopathology. Various treatment modalities: regenerative techniques and augmentive procedures, rationale of flap surgery.

**DPER 3261 (18-0-1)****Periodontics VI**

Early-to-moderate periodontitis, etiology and histopathology, augmentation techniques, frenectomy and frenotomy-free gingival grafts, connective tissue grafts, rationale and limitations of treatment procedures.

**DPER 4171 (18-0-1)****Periodontics VII**

Dental implantology, replacing lost natural dentition, diagnosis and treatment procedures, goals and limitations, the periodontal/prosthetic role in dental implantology, diagnosis, implant placement, maintenance of periodontal health, clinical and histologic data, microbiology of crevice/implant environment.

**DPER 4281 (18-0-1)****Periodontics VIII**

Learning opportunities, assisting in ongoing research, clinical experience in areas of interest; enhance student dental education by selecting areas of personal interest, outline objectives, outcomes assessment, diagnosis and treatment of periodontal disease.



## Restorative Dentistry

**Professor and Division Chief:** S. Askinas; **Professor and Chair:** V. Jekkals; **Professors:** F. Kohler, E. Reetz; **Associate Professors:** M. Berger, A. Brodie, J. Eisenman, A. Gotlieb, A. Kuby; **Clinical Associate Professors:** A. Burch, R. Cohen, E. Fellows, E. Gottlieb, D. Herkovich, L. Krasne, M. Kuttler; S. Lieberman, J. McGee

**DRBM 1111 (18-0-1)**  
**Principles of Dental Materials**

Science of dental materials: properties, applications and limitations of materials used in dentistry, and clinical behavior of dental materials. Biomaterials and material science, mechanical and physical properties of dental materials, and their clinical applications and usage.

**DRDA 1112 (36-108-4)**

**Restorative Dentistry**

**DRDA 1133**

**Dental Materials I**

Tooth morphology, study of occlusion, biological and clinical perspectives of dental anatomy, comparative dental anatomy, and form and function with emphasis on occlusion and waxing procedures, and occlusal analysis.

**DRDB 1124 (36-108-4)**

**Restorative Dentistry**

**DRDB 1133**

**Dental Materials II**

Introduces the basic concepts of dental decay, its prevention and surgical correction; basic concepts of cavity preparation and dental restoration; develops competent psychomotor skills.

**DRD 1136 (54-162-6)**

**Restorative Dentistry &**

**Dental Materials III**

This course will teach appropriate use of the terminology and instruments, psychomotor skills of tooth preparation, provisional and final restoration, prepare teeth for single or multiple unit cast fixed prosthodontic restorations, and fabricate provisional restorations for single or multiple unit restorations.

**DRD 2146 (54-162-6)**

**Restorative Dentistry & Dental Materials IV**

Fundamental technical knowledge, concepts and skills, diagnose and treat oral conditions that require the replacement of lost teeth and their associated structures with complete and partial removable dentures.

## Clinical Patient Care (Comprehensive)

**Clinical patient care will be included in all four years of training. Semester hours will be assigned depending on clinic hours and student's year of study.**

The student will incorporate the knowledge gained from prior studies while treating patients in the dental clinics. The student will develop the essential skills necessary for comprehensive patient care including diagnosis and oral medicine, periodontics, endodontics, orthodontics, restorative dentistry, oral surgery, pediatric dentistry, radiology, and emergency dental care; all under the direct supervision of the faculty.

## POSTGRADUATE PROGRAMS

The College of Dental Medicine developed postgraduate specialty training in several fields starting in the fall of 1997. It is anticipated that there will be four training positions each in Endodontics, Periodontics, Orthodontics, and Pediatric Dentistry.

These programs will conform to the standards set by the American Dental Association and its specialty boards for such training and will be supervised by certified and qualified dental specialists. The tuition will be \$25,500.00 a year and detailed information may be obtained from the Office of the Dean.

Nova Southeastern University College of Dental Medicine has requested *preliminary provisional approval* accreditation status from the Commission on Dental Accreditation of the American Dental Association for a postgraduate program in Prosthodontics, which will begin in August, 1998.

### Postgraduate Core Courses

All postgraduate programs will require the students to include the following postgraduate core courses:

#### First Year

##### First Semester

Head and Neck Anatomy/Growth and Development  
 Oral Histology and Embryology  
 Microbiology and Immunology  
 Pharmacology  
 Cariology  
 Radiology  
 Internal Medicine and Physical Evaluation  
 Head and Neck Pain  
 Pain and Anxiety Control  
 Occlusion  
 Cardiopulmonary Resuscitation  
 Research Methodology and Biostatistics  
 Photography

#### First Year

##### Second Semester

Biochemistry  
 Physiology  
 Molecular Biology  
 General And Oral Pathology/  
 Oral Medicine  
 Nutrition  
 Local Anesthesia/I.V. Sedation/  
 Oral/Inhalation  
 Teaching Methodology  
 Practice Management  
 Patient Management  
 Ethics and Jurisprudence

### Postgraduate Endodontics

The postgraduate program in Endodontics is a 24-month certificate program that balances clinical experience with didactic instruction in the relevant basic and clinical sciences. Four students will be accepted annually.

The clinical portion of the program is microscopically oriented, providing the student with modern concepts of endodontic treatment including rotary NiTi instrumentation, electric apex locators, guided tissue regeneration and crown lengthening procedures.

Joint conferences with other disciplines such as periodontics, prosthodontics, pediatric dentistry, otolaryngology and neurology will provide the student with a well-rounded basis to diagnose and treat conditions in the head and neck region.

The didactic portion of the program includes a core curriculum designed to provide all postgraduate students a basic interdisciplinary education and a detailed endodontic curriculum that concentrates heavily on a knowledge of the literature. This will prepare the student to take and pass the examinations for the American Board of Endodontics.

The program at NSU will also include research, teaching, and instruction by several well-known visiting professors.

## Postgraduate Orthodontics

The Department of Orthodontics offers a 24-month postgraduate training program designed to fulfill the specialty certification requirements of the American Board of Orthodontics. Comprehensive lectures in the relevant basic sciences, as well as seminars, clinical seminars, and case conferences in the clinical art and science of orthodontics comprise one segment of the program.

The other segment of the program includes clinical treatment of adults, adolescents, and children to enable the student to develop proficiency in variations of the edgewise appliance and other orthodontic appliances. Interdisciplinary conferences and coordinated treatment procedures of complex cases with postgraduate periodontic, prosthodontic, and endodontic students are part of the educational experience.

Students will be required to complete a research project and to participate as assistant instructors for the undergraduate orthodontics course. Five students are accepted into the program each year.

## Postgraduate Pediatric Dentistry

The Department of Pediatric Dentistry offers a 24-month postgraduate program in Pediatric Dentistry. The program is designed to fulfill the educational requirements for specialty certification by the American Board of Pediatric Dentistry and fulfills the requirements for specialty training of the Council on Dental Education (Commission on Dental Accreditation) of the American Dental Association. This university-based training program includes significant hospital and extramural affiliation in the Miami and Ft. Lauderdale areas.

Lectures, seminars and conferences are conducted relating to pediatric pa-

tients and their dental treatment. Students are trained in hospital and operating room protocol including the use of general anesthetics. They also serve as instructors in the predoctoral laboratory and clinic. An original research project must be conducted by each student.

Accepting four individuals each year, each postgraduate program will utilize the individual state-of-the-art operatories in the newly opened College of Dental Medicine as well as dental facilities in off-site locales in the Miami-Ft. Lauderdale areas. Upon successful completion of the program, the trainee receives a certificate in Pediatric Dentistry.

## Postgraduate Periodontics

The postgraduate program in Periodontics is of three years' duration and open to all graduates of dental colleges recognized by the American Dental Association. Students in the upper half of their class are accepted. Internship or residency experience is preferred, but not required. The full-time program consists of a didactic core curriculum in basic sciences and behavioral sciences, a series of seminar presentations in periodontics and implant dentistry, literature review seminars, periodontal prosthetic seminars and core presentations. Students will also participate in our predoctoral periodontics program. Clinical experience required will be the diagnosis and treatment of a minimum of 60 cases of moderate to severe periodontics, and the placement of 30 or more implant units in collaboration with postgraduate prosthodontics students. In addition, individual research programs will be encouraged.

## Anticipated Expenses

Equipment costs for each program will be equal to or less than the average for all U.S. dental schools.

## Requirements for Admission

The College of Dental Medicine selects students based on application content, academic record, letters of recommendation, National Board scores and a personal interview.

Prior to matriculation, applicants must have:

1. Completed a D.M.D., D.D.S., or their equivalent
2. Official National Board scores, if taken

## Application Procedure

To complete your application, you must arrange to have the following sent to the Office of Admissions, College of Dental Medicine:

1. A completed application form along with a \$50.00 non-refundable application fee
2. An official transcript from each college, professional school, or university attended. Course work taken at foreign institutions must be evaluated for U.S. institution equivalence. This course work must be evaluated by one of the services listed below. You should contact:

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

or

**Joseph Silney & Associates, Inc.**  
International Education Consultants  
Coral Gables, FL 33124  
(305) 666-0233

or

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

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

2. Official National Board scores. Please request the secretary of the National Board of Dental Examiners to forward all scores of the Dental Boards. The National Board is located at 211 East Chicago Avenue, Chicago, Illinois, 60611. Applicants who have not taken the National Boards must submit a letter of explanation.
3. Three letters of evaluation are required. They must be completed by dental school faculty members who are well acquainted with the applicant's abilities or by individuals who can provide information relevant to the applicant's potential.
4. Upon receipt of the completed application and the required credentials, the Committee on Admissions will select applicants for interview and those selected will be notified in writing. Not all applicants will be granted an interview. All applicants who are admitted to the College must be interviewed, but an invitation to appear for an interview should not be construed as evidence of acceptance.



# Health Professions Division Faculty



## EMERITUS FACULTY

**Donald C. Bergmann**

*Emeritus Professor,  
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B.S. - 1942  
Baldwin-Wallace College  
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Kirksville College of  
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*Fellow, American College of Pathologists*

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A.B. - 1936  
University of Kansas  
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University of Kansas  
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University of Michigan  
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B.A. - 1939  
Webster University  
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University of Osteopathic  
Medicine and Health Sciences  
M.S. - 1943  
Kansas University  
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Ophthalmology*

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West Virginia University  
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College of Osteopathic Medicine  
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Philadelphia College of  
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University of Rhode Island  
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Memphis State University

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George Washington University  
College of Medicine  
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## FULL TIME FACULTY

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University of Illinois  
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De Paul University  
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M.B.B.S. - 1978  
Dacca University, Bangladesh  
P.A. - 1988  
Bayley Seton Hospital P.A. Program

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Pharm.D. - 1995  
University of Florida

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Springfield College  
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Medical College of Virginia

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University of Miami  
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Richmond Professional Institute  
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University of Florida  
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University of Rangoon  
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Temple University  
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National University of Mexico  
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*Fellow, American College of Osteopathic  
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