Policy of Non-Discrimination
Southeastern University of the Health Sciences does not discriminate on the basis of age, color, national and ethnic origin, sex, religion or handicap in the administration of its employment and educational policies, student admission policies, scholarship and loan programs and other programs administered by the University.
This brochure is for information purposes only and does not represent a contract. Information contained herein is subject to change at any time by administrative decision or the direction of the Board of Trustees.

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

Southeastern University and its health professionals are dedicated to serving the community, and 1992 was an opportunity to realize this ideal on a wide scale. Following the passage of Hurricane Andrew through south Dade County, Southeastern University faculty and students were among the first to offer assistance. Many of our physicians spent days walking door to door to treat the sick in devastated neighborhoods. Others spent weeks in tent clinics operated by the U.S. Army. All offered expert care to people in desperate need.

Standards for health care professionals become more rigorous each year, and as a consequence the University continues to improve its curriculum. The College of Osteopathic Medicine has a completely revamped course of study that better prepares students to gain internship appointments. It has also initiated a Seven Year Program for Family Medicine (SYFAM) which will give incoming freshmen an automatic appointment to internship and residency at a University-affiliated facility.

As pharmacists assume a greater responsibility for assessing the efficacy and progress of drug therapy, the preferred professional degree has become the Doctor of Pharmacy (Pharm. D.), with its emphasis on clinical care. The University now admits all pharmacy students into its doctoral program and, along with other colleges of pharmacy around the nation, is preparing to phase out the Bachelor of Science in Pharmacy.

The University continues to grow. The State of Florida has approved the University's request to form a College of Allied Health. The new College's Physician Assistant Program will accept its first students for the summer, 1993, semester. The College of Optometry, formed in 1989, graduated its charter class in 1993.

We have come a long way in a short time, yet we remain as committed today to excellence in professional education and to caring service to the community as we were when the University opened its doors a short twelve years ago.
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UNIVERSITY ACADEMIC CALENDAR

(This is a provisional calendar for the years 1993-1995, listing major dates and holidays. It is subject to change at any time by the University. For more specific dates and other academic events, please consult the specific college or the university executive office.)

1993- Summer Semester

Tuesday, June 1 .......................... Junior and Senior Classes begin
Optometry

Sunday, June 13 .......................... Registration and Orientation
Physician Assistant Program

Monday, June 14 .......................... Classes begin
Physician Assistant Program

Friday, July 30 .......................... Summer Semester ends
Physician Assistant Program

1993- Fall Semester

Monday, August 2 .......................... Sophomore and Junior Classes begin
Osteopathic Medicine

Saturday & Sunday, August 7 & 8 .......................... Freshman Orientation and Registration
Osteopathic Medicine, Optometry

Monday, August 9 .......................... Freshman Classes begin
Osteopathic Medicine, Optometry, P.A. Program

Thursday, August 12 .......................... Junior Class begins
Optometry

Sunday, August 15 .......................... Freshman Orientation and Registration
Pharmacy

Monday, August 16 .......................... Freshman Classes begin
Postgraduate Pharm. D. Registration and Classes begin
Pharmacy

Monday, September 6 .......................... Labor Day, No Classes
All Colleges

Wednesday, November 24 .......................... Thanksgiving Recess begins, 10:30 P.M.
Junior Class Fifth Semester ends
Osteopathic Medicine

Monday, November 29 .......................... Classes resume
Osteopathic Medicine

Friday, December 10 .......................... Classes end, 5:00 P.M.
Pharmacy, P. A. Program

Monday, December 13 .......................... Final Examinations begin

Friday, December 17 .......................... Winter Recess begins, 10:30 P.M.
All Colleges

Wednesday, December 22 .......................... Winter Recess begins, 10:30 P.M.
Osteopathic Medicine, Optometry
1994- Spring Semester
Monday, January 3 ................................................. Classes begin
Osteopathic Medicine, Optometry
Registration and Classes begin
Pharmacy, Postgraduate Pharm. D.
Tuesday, January 4 ...................................................... Registration and Classes begin
P. A. Program
Monday, January 17 ............................................ Martin Luther King Day, No Classes
Monday, February 21 ............................................ Presidents' Day, No Classes
Friday, March 25 ................................................. Spring Recess begins, 10:30 P.M.
Monday, April 4 ...................................................... Classes resume
Monday, May 2 ...................................................... Senior Class Eighth Semester begins
Osteopathic Medicine
Friday, May 6 ...................................................... Classes end, 5:00 P.M.
Pharmacy
Monday, May 9 ...................................................... Final Examinations begin
Pharmacy
Friday, May 13 ...................................................... Classes end, 5:00 P.M.
Osteopathic Medicine, Optometry, P. A. Program
Summer recess begins, 5:00 P.M.
Pharmacy
Monday, May 16 ...................................................... Final Examinations begin
Osteopathic Medicine, Optometry, P. A. Program
Friday, May 20 ...................................................... Summer Recess begins, 6:00 P.M.
Osteopathic Medicine, Optometry, P. A. Program
Friday, May 27 ...................................................... Senior Class Eighth Semester Ends
Osteopathic Medicine
Senior Day and Graduation Rehearsal
Osteopathic Medicine, Pharmacy, Optometry
Sunday, May 29 ...................................................... Graduation

1994- Summer Semester
Wednesday, June 1 .................................................... Sophomore Registration
P. A. Program
Sunday, June 12 ....................................................... Freshman Orientation and Registration
P. A. Program
Monday, June 13 ...................................................... Classes begin
P. A. Program

1994- Fall Semester
Monday, August 1 .................................................... Sophomore Class begins
Osteopathic Medicine
Saturday and Sunday, August 6 & 7 .................. Freshman Orientation and Registration
Osteopathic Medicine, Optometry

1995- Spring Semester
Monday, January 2 .................................................... Registration and Classes begin
Pharmacy, P. A. Program
Osteopathic Medicine, Optometry
Monday, January 16 ............................................ Martin Luther King Day, No Classes
Monday, February 20 ............................................ Presidents' Day, No Classes
Friday, April 7 ...................................................... Spring Recess begins, 10:30 P.M.
Osteopathic Medicine, Optometry, Pharmacy, P. A. Program
Monday, April 17 ...................................................... Classes resume
Friday, May 5 ...................................................... Classes end, 10:30 P.M.
Pharmacy
Monday, May 8 ...................................................... Final Examinations begin
Pharmacy
Friday, May 12 ...................................................... Summer recess begins, 5:00 P.M.
Pharmacy
Classes end, 5:00 P.M.
Osteopathic Medicine, Optometry
Monday, May 15 ...................................................... Final Examinations begin
Osteopathic Medicine, Optometry
Friday, May 19 ...................................................... Summer Recess begins, 5:00 P.M.
P. A. Program
Classes end
P. A. Program
Friday, May 26 ...................................................... Senior Class Eighth Semester ends
Osteopathic Medicine
Senior Day and Graduation Rehearsal
Osteopathic Medicine, Optometry, Pharmacy, P. A. Program
Sunday, May 28 ...................................................... Graduation
History of the University

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

To secure funding for the nation's fifteenth college of osteopathic medicine, they sold Osteopathic General Hospital and placed the proceeds into an endowment for the College. The Southeastern College of Osteopathic Medicine (SECOM), as it was first known, was chartered by the State of Florida in 1979 and was accredited thereafter by the American Osteopathic Association. In 1981, the College admitted a charter class of forty students.

In 1985, a task force explored the feasibility of a College of Pharmacy. Its study revealed a shortage of pharmacists, particularly in south Florida, and it recommended that a college of pharmacy be created within SECOM. In the fall of 1987, the Southeastern College of Pharmacy admitted its charter class of forty-nine students.

College administrators, citing future population projections, recognized a need for a school of optometry, and the Board of Trustees voted unanimously to establish one. On December 6, 1988, the State Board of Independent Colleges and Universities conferred university status upon the institution, which became Southeastern University of the Health Sciences. During the fall semester of 1989, the College of Optometry admitted its charter class of twenty-nine students.

Thus, in one decade, the institution grew from a college of osteopathic medicine to a multi-disciplinary university with an enrollment of over one thousand medical, pharmacy and optometry students who share a twenty-million-dollar campus complex.
Financial Aid

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

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

Physical Examination

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

Student Housing

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

Health Insurance

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

Health Centers

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

The Broward Family Health Center, now in its fifth year of operation, is staffed and managed by the faculty of the Southeastern University, aided by family medicine residents. The facility is used by senior medical students for clinical training rotations.

The clinic, a 16,000-square-foot structure at 1111 W. Broward Blvd., is located in an underserved area of Fort Lauderdale. The management of this health care facility, with the full support of Southeastern University's nearby health professions schools, guarantees quality health care for area residents.

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

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

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

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

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

"Whole patient" care, coupled with training that stresses family medicine, produces highly qualified physicians who are different by design. As a result, DO's give the profession unique characteristics:

- Over 65 percent of all DO's are in family practice or one of the primary care specialties, such as internal medicine, obstetrics or pediatrics.
- More than 66 percent of all DO's practice in communities whose populations are 50,000 or less.
- DO's represent only five percent of the total physician population but provide health care to ten percent of the people, some 23 million Americans.
- DO's comprise 13 percent of the total physician manpower in the Medical Corps of the Armed Forces.
Because osteopathic physicians provide something more, not something else, communities are experiencing a phenomenal need for osteopathic services. A study of osteopathic education funded by the Kellogg Foundation calls Osteopathic Medicine "the fastest growing health care profession." SECOM views with pride its role in the ongoing development of osteopathic medicine.

Accreditation
Southeastern College of Osteopathic Medicine (SECOM) 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. SECOM has also been licensed by the Florida State Board of Independent Colleges and Universities.

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

1. A Bachelor's degree from a regionally accredited college or university.
2. Completion of one academic year of each of the following:
   - General Biology, including laboratory
   - Inorganic Chemistry, including laboratory
   - Organic Chemistry, including laboratory
   - Physics, including laboratory
   - English Composition and Literature

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

3. All applicants are required to take the Medical College Admissions Test (MCAT). It is strongly recommended that the examination be taken in the spring of the year preceding the admission date. If the applicant feels that test scores are unsatisfactory, the examination may be retaken. Only the best set of scores is considered. All scores must be forwarded to ACOMAS (American Association of Colleges of Osteopathic Medicine Application Service), 6110 Executive Boulevard, Suite 405, Rockville, Maryland 20852. Applications for the MCAT may be obtained from your college’s pre-professional advisor’s office, the SECOM admissions office or by writing directly to the Medical College Admission Test, Box 451, Iowa City, Iowa 52240.

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

Application Procedure
Inquiries for admission should be addressed to the Admissions Office, Southeastern University of the Health Sciences College of Osteopathic Medicine, 1750 Northeast 167th Street, North Miami Beach, Florida 33162-3017. SECOM participates in the American Association of Colleges of Osteopathic Medicine Application Service (ACOMAS) for the receipt and processing of all applications. ACOMAS takes no part in the selection of students. ACOMAS application packets may be obtained from SECOM in person or by writing directly to ACOMAS, 6110 Executive Boulevard, Suite 405, Rockville, Maryland 20852.

The following information must be completed before application may be reviewed by SECOM's Admissions Committee:

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

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

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

All application credentials must be received by the Admissions Office no later than February 15th. Notice of acceptance or other action by the Committee on Admissions will be on a "rolling" or periodic schedule. Early completion of the application is, therefore, in the best interest of the student.

Tuition and Fees
The Board of Trustees has established the following tuition and fees:

1. Tuition—$13,600 for 1993-94 academic year for Florida residents and $17,900 for residents of all other states. In addition, a Student Activities Fee of $100 is required.
2. Acceptance Fee—$1,000. This fee is required to reserve the accepted applicant’s place in the entering First Year Class. This advance payment will be credited to the tuition payment due on registration day but is not refundable in case of withdrawal. Payment of the first deposit of $250 is due no later than two weeks after the applicant’s
Financial Need

Summer and other vacation periods. As required to report financial need.

College believes that the primary responsibility for a student's education rests with the student and his family, but realizes that the economic circumstances of some families make it necessary for the student to obtain assistance from other sources.

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

The section below provides a summary of scholarships and other sources of financial aid.

Financial Aid

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

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

SECOM-Administration Programs

College Work Study (CWS). This program provides financial aid in the form of part-time employment to enable students to earn some of their educational expenses.

As a rule, students will normally work ten hours per week and up to forty hours during summer and other vacation periods. A student's College Scholarship Services (CSS) Financial Aid Form, SECOM Financial Aid Application, financial aid transcripts, and all tax forms or their equivalent, must be on file for the student to be eligible.

SECOM Minority Scholarship in Osteopathic Medicine.

Amount: Full Tuition for four years.

Eligibility: Entering SECOM Freshman; U.S. citizen or permanent resident; resident of Florida; minority status (strong preference given to members of minority groups considered under-represented in medicine). Selection based on overall qualifications and financial need.

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

Osteopathic Profession Scholarship/Loan Programs

A.O.A.-N.O.F. Student Loan Fund. National Loans from this source are available to students who are in their third or fourth year in a college of osteopathic medicine. The maximum loan is for $2,000 with an interest rate of 8% from date of issuance. Interest payments are due May 31 of each year. All loans are payable two years after graduation, or three years after graduation if the recipient serves an AOA-approved internship. Application forms are available in the Financial Aid Office.

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

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

State Scholarships and Loans

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

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

Kiwanis Club of North Miami Beach Scholarship Loan Fund. This is a 6% simple interest loan in the amount of $1,000. The applicant should demonstrate financial need.

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

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

Federal Service Obligated Scholarships

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

Outside Loans/Scholarships/Fellowships

Stafford Student Loan (formerly GSL). This loan program enables graduate/professional students to borrow up to $7,500 per academic year with an overall aggregate to $54,000, including undergraduate loans. These loans are government subsidized. The interest is paid by the federal government while the student is in school and during deferment and grace periods.

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

Supplemental Loan for Students (SLS). The SLS program awards $4,000 per year up to a total aggregate amount of $20,000. The interest is assessed at a variable rate with a 12 percent ceiling. The loan may not exceed the total educational cost minus financial aid awarded.

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

National Medical Fellowships, Inc. This private organization makes awards based on demonstrated financial need. Awards are intended to supplement aid received from other sources. The number of awards is determined by the funds available.

Eligibility Criteria: Applicants must be U.S. citizens or permanent residents who have filed a declaration of intent to become a U.S. citizen, and must be from a minority group considered under-represented in medicine (Blacks, Mexican Americans, American Indians, and mainland Puerto Ricans), and in their first two years of studies.

We encourage our student applicants to investigate independent sources of funds, such as corporations in which family or relatives are employed, and religious or fraternal groups and service organizations in the localities where the applicant or his/her family resides. The financial aid administrator stands ready to assist students in pursuing any and all of these avenues. For further information on any of the listed programs contact the financial aid officer.

Requirements For Graduation

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

a) Be at least twenty-one years of age.

b) Be of good moral character.

c) Have satisfactorily passed all prescribed examinations.

d) Have satisfactorily completed the program of study required for the degree including all assignments.

e) Have satisfactorily discharged all financial obligations.

f) Take Parts I and II of the National Board Examination.

g) Attend the commencement ceremony during which the degree is conferred.

h) Have been a student in an accredited osteopathic college for a least four academic years.

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

Course of Study

SECOM has undergone curriculum changes to a program of two years of classroom studies and two years of clinical rotations. Currently both curricula are being taught during our two-year transition period. What follows is a description of both curricula.

For the Class of 1996 and following (new curriculum)

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

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

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

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

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

CURRICULUM OUTLINE

First Year, First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Anatomy I (Embryology &amp; Histology)</td>
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<td>Anatomy II (Gross Anatomy of the Trunk and Extremities)</td>
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<tr>
<td>Dean's Hour</td>
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<td>Emergency Medicine I (First Aid)</td>
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<td>Microbiology I (Immunology, Mycology)</td>
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First Year, Second Semester

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<tbody>
<tr>
<td>Anatomy III (Head and Neck)</td>
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Second Year, First Semester

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<td>Microbiology II (Bacteriology, Virology, Parasitology)</td>
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Second Year, Second Semester

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<tbody>
<tr>
<td>Addiction Medicine</td>
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<td>Internal Medicine IV (Rheumatology)</td>
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TOTAL HOURS                                      | 588   |
**Curriculum Outline**

**For the Class of 1994 and 1995 (Old Curriculum)**

The major differences between the new curriculum (described above) and the present one (old curriculum described below) are marked by the time periods indicated below by italics.

The first two and one-half years of instruction are devoted to developing a good foundation in the basic sciences (anatomy, microbiology, pathology, biochemistry, physiology and pharmacology) along with didactic studies in the clinical sciences, including osteopathic principles and practice and the humanities. Clinical sciences are introduced in the first year, and are gradually expanded. "Hands-on" experience is provided regularly to enhance learning.

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

After 17 months of clinical service, students will return to campus for an eighth semester consisting of basic and clinical science correlations, and professional and personal preparation for internship, residency and practice.

**First Year, First Semester**

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<th>Hours</th>
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<td>Anatomy III (Gross Anatomy of the Trunk and Extremities)</td>
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<tr>
<td>Biochemistry I (Introduction, Metabolism)</td>
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<tr>
<td>Dean's Hour</td>
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<tr>
<td>Emergency Medicine I (First Aid)</td>
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<td>Emergency Medicine II (Basic Cardiac Life Support)</td>
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<td>Medical Humanities I (History of Medicine)</td>
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**Second Year, First Semester**

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<th>Course</th>
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<tr>
<td>Anatomy II (Histology)</td>
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<tr>
<td>Anatomy III (Gross Anatomy of the Trunk and Extremities)</td>
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<tr>
<td>Biochemistry I (Introduction, Metabolism)</td>
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<tr>
<td>Dean's Hour</td>
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<td>Family Medicine X (Sports Medicine)</td>
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<tr>
<td>Medical Communications</td>
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<td>OP&amp;P (Special Problems)</td>
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### First Year, Second Semester

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<td>Anatomy IV (Head and Neck)</td>
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<td>Dean's Hour</td>
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<td>Family Medicine I (Art of History Taking)</td>
<td>18</td>
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<td>Medical Humanities III (Human Sexuality)</td>
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<td>Microbiology I (Immunology, Bacteriology)</td>
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<td>OMM II (Regional Principles and Techniques)</td>
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<td>Physiology II (Systems)</td>
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<td><strong>TOTAL HOURS</strong></td>
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### Second Year, First Semester

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<tr>
<td>Community Medicine (Biostatistics)</td>
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<tr>
<td>Community Medicine II (Survey of Community Medicine)</td>
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<td>Medical Communications I (Writing, Speaking and Computers)</td>
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<td>Microbiology II (Mycology, Parasitology, Virology)</td>
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<td>Neurology</td>
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### Second Year, Second Semester

<table>
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<tr>
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<td>Family Medicine II (Rural Medicine)</td>
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<td>Internal Medicine II (Pulmonary)</td>
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<td>Ophthalmology</td>
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<td>OMM IV (Special Techniques)</td>
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<td>Pathology II (Clinical Pathology)</td>
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<td>Pediatrics I</td>
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### Third Year, First Semester

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<th>Course</th>
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<tr>
<td>Anesthesiology</td>
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<td>Community Medicine V (Medical Jurisprudence)</td>
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<td>Emergency Medicine III (Advanced Cardiac Life Support)</td>
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<td>Family Medicine V (Minority Medicine)</td>
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<td>Family Medicine VI (Nutrition)</td>
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<td>Family Medicine VII (Patient Procedures and Problem Solving)</td>
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<td>Family Medicine IX (Physical Medicine and Rehabilitation)</td>
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<td>Internal Medicine V (Allergy)</td>
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<td>Internal Medicine VI (Infectious Diseases)</td>
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<td>Internal Medicine VII (Nephrology)</td>
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<td>Internal Medicine VIII (Hematology, Oncology)</td>
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<td>Medical Humanities IV (Religion, Philosophy and Ethics in Medicine)</td>
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<td>Obstetrics and Gynecology II (Obstetrics)</td>
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<td><strong>TOTAL HOURS</strong></td>
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Third and Fourth Years

Clinical Rotations - Phase 1
Family Medicine
Internal Medicine
Pediatrics
Psychiatry
Surgery

Clinical Rotations - Phase 1
Elective
Geriatrics
Internal Medicine
Obstetrics/Gynecology
Out-Patient Clinics, 3 Months
Rural Medicine
Selective-Medical
Selective-Surgical
Surgery and Surgical Specialties
Vacation

Fourth Year, Second Semester
(Eighth Semester - 1 Month)

This semester consists of full time teaching correlation seminars as well as sessions relating to personal and professional preparation for internship, residency and practice. More than 160 hours of activity are included with this semester.

College of Osteopathic Medicine Courses

Addiction Medicine
Chairman and Professor: J. Spike; Professors: P. Bentley, L. Fry; Clinical Instructors: B. Krantz, P. Carlos, R. Weiss

Addiction Medicine
This course will provide a survey of the field of addiction medicine. The disease concept of addiction will be stressed throughout the course. Students will be encouraged to explore their attitudes toward caring for patients with addictive disorders. Lectures will focus on practical approaches to identification, diagnosis and treatment of the substance abuser. Both didactic and experiential components, with presentations by members of both the professional and recovering community, will be included.

Anatomy

Chairman & Professor: G.R. Conover; Professor: L. Dribin, G.C. Ericson; Professors Emeriti: A.C. Higginbotham, F.H. Higginbotham; Associate Professors: J.C. Lanning, A. Maressey; Assistant Professor: S.F. Simpson

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

Anatomy II-Gross Anatomy of the Trunk and Extremities
A detailed study of the gross structure of the human trunk and extremities, including dissection by teams of four students.

Anatomy III-Gross Anatomy of the Head and Neck
Continuation of Anatomy II with dissection of the head and neck excluding the brain.

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

Anesthesiology

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

Anesthesiology
This course will present the student with the fundamentals of clinical anesthesia including pre-operative and post-operative care, selection of anesthesia, and intra-operative management with both general and regional anesthetics. It will provide the background knowledge necessary for family physicians who may be responsible for the preparation and after-care of their patients undergoing anesthesia.

Biochemistry

Chairman & Professor: K.H. Woodside; Associate Professors: R.E. Block, E.E. Groseclose; Assistant Professor: E.O. Keith
Biochemistry I—Introduction and Metabolism 109 Hours
This course considers the biochemical reactions and pathways of normal human health. Laboratory exercises, some involving student volunteer subjects, are included. Several clinical correlation conferences illustrate the normal pathways of metabolism by presenting data on specific diseases.

Biochemistry II—Nutrition and Organ Systems 53 Hours
Nutrition from a biochemical viewpoint, the biochemistry of the gastro-intestinal, pulmonary, renal, muscular and other systems, and endocrinology will be studied. Several laboratories and clinical correlation conferences will be included.

Community Medicine
Chairman & Assistant Professor: A. McLean; Professors: F. Lippman; Professor Emeritus: C.L. Brumback; Clinical Professor: M. Morganstine; Associate Professor: R.A.J. Fernandez; Clinical Associate Professors: R.D. Knapp, H.H. Mones, M. Rosenbluth, B.B. Slaughter, S.B. Zucker; Clinical Instructor: D.R. James

Community Medicine I—Survey of Community Medicine 12 Hours
A socio-economic overview of "public health" with emphasis on the last 20 years. Course work focuses on health statistics, epidemiology, medical sociology, environmental and occupational medicine, quality of care and manpower management. The role of government is contrasted to the historic "non-involvement" of primary medicine.

Community Medicine II—Biostatistics 6 Hours
The student will be introduced to some of the basic concepts of medical biostatistics. Basic terminology, as well as evaluation of medical research and literature, will be stressed.

Community Medicine III—Tropical Medicine 9 Hours
The Tropical Medicine section of Community Medicine covers the diseases found in sub-tropical and tropical climates. Emphasis is placed on etiology, epidemiology, prevention and treatment of the disease conditions.

Community Medicine IV—Health Care Delivery 9 Hours
An overview of the existing methods of bringing health care to the community. Individualism and old traditions are contrasted with the need for balancing availability of services with equitable costs and quality of care.

Community Medicine V—Medical Jurisprudence 18 Hours
A seminar and lecture series designed to give the student an appreciation of physician-attorney relationships. An appropriate, positive viewpoint is developed relative to court appearances of physicians and preparation of medical reports related to legal issues.

Dermatology
Chairman & Associate Professor: H.A. Schwartzberg; Clinical Professor: I. Feldman; Clinical Assistant Professor: P.E. Dermer, G. Siegel, S.E. Skopit

Dermatology
This course will cover basic diagnostic and laboratory methods used to classify and diagnose dermatologic problems. Simple office surgical techniques also will be covered.

Emergency Medicine

Emergency Medicine I—First Aid 9 Hours
The goal of this course is proficiency in basic first aid. It is based on the Emergency Medical Technician introductory course and prepares the student to render first aid in all situations.

Emergency Medicine II—Basic Cardiac Life Support 9 Hours
This course in basic cardiac life support is approved by the American Heart Association and leads to certification upon successful completion.

Emergency Medicine III—Advanced Cardiac Life Support 16 Hours
The student will take an advanced cardiac life support course approved by the American Heart Association. Current certification in basic cardiac life support is a prerequisite for this course.

Emergency Medicine IV—Emergency Medicine 18 Hours
This course stresses the prompt recognition and emergency management of both common and serious problems.

Family Medicine

**Family Medicine I—Art of History Taking** 54 Hours

The purpose of this course is to introduce the student to patient evaluation techniques. The student is exposed to standard history taking, physical examination and recognition of non-verbal and other clues.

**Family Medicine II—Rural Medicine** 18 Hours

The student is introduced to the concepts of a rural practice. The role of the rural practitioner is explored looking at both the advantages and disadvantages.

**Family Medicine III—Physical Diagnosis** 72 Hours

Students will be taught hospital techniques in preparation for clinical rotations, physical examination and diagnostic skills. Training time will be assigned in a variety of areas at SECOM’s teaching hospitals. Patient evaluation will be stressed.

**Family Medicine IV—Geriatrics** 18 Hours

This course will review the normal geriatric patient as well as covering pertinent pathological processes. Bio-psycho-social aspects will be stressed.

**Family Medicine V—Minority Medicine** 9 Hours

Problems inherent in the delivery of health care to minority groups are discussed. A significant portion of the course will deal with communications, cultural factors, compliance and the doctor-patient relationship.

**Family Medicine VI—Nutrition** 10 Hours

The student will be taught a detailed course in normal and abnormal nutrition. Included are the assessment of nutritional status and a discussion of many of the prevailing diets.

**Family Medicine VII—Patient Procedures & Management** 36 Hours

The student will be prepared for some of the procedures encountered in clinical rotations. The goal is to ensure familiarity with these procedures.

**Family Medicine VIII—Medical Problem Solving** 36 Hours

Here, the student is required to demonstrate high-order problem solving ability through case studies and medical simulation, using knowledge gained from didactic and clinical courses.

**Family Medicine IX—Physical Medicine & Rehabilitation** 18 Hours

This survey course will present a basic overview of physical medicine along with the use of modalities, and the interaction of somatic and psychological factors. Physical medicine in the rehabilitation of the patient is emphasized.

**Family Medicine X—Sports Medicine** 18 Hours

This course will emphasize the role of the physician in sports medicine. The entire spectrum, including nutrition, prevention, conditioning, diagnosis and therapy, will be covered.

**Family Medicine XI—Clinical Practicum** 72 Hours

Students are assigned a series of history and physical examinations at SECOM’s teaching hospitals which upon completion are thoroughly critiqued. Familiarity with various procedures is gained through lectures and use of manikins.

**Humanities**

Chairman & Professor: S. Cohen; Visiting Professor: E. Fliegelman; Associate Professor: J. Z. Spike; Assistant Professor: D. E. Shaw

**Medical Humanities—I History of Medicine** 9 Hours

This course traces the historic course of all kinds of medicine from the ancient Egyptians and Babylonians, 6000 years ago, to modern times. There is a complete discussion of Osteopathic Medicine from its inception with Dr. Andrew Taylor Still to its place in the delivery of health care today.

**Medical Humanities—II Humanities in Medicine** 9 Hours

Material presented aids the student in understanding the patient-physician relationship. Dilemmas such as euthanasia, truth telling, abortion, sterilization, malpractice and death and dying are discussed. Role playing and case histories are presented and analyzed.

**Medical Humanities III—Human Sexuality** 18 Hours

Topics covered include the human sexual response cycle as well as the physiology and anatomy of sexual apparatus. Masturbation, alternate sexual life styles, sexuality through the life cycle, sexual violence, effects of drugs and alcohol on sex function, and the effect of illness and surgery on sexuality are studied. Guest lectures, videotapes and role playing are arranged.

**Medical Humanities IV—Religion, Philosophy & Ethics in Medicine** 18 Hours

This course will consist of lectures and discussion groups on the interpretation of religious beliefs, philosophical views and ethical outlooks with the problems of everyday medical care. Decision-making issues include the allocation of resources, human experimentation, informed consent, living will, refusing treat-
ment, mental competency, suicide, patient-physician conflicts and patient-institution conflicts. Emphasis is on the psycho-social-medical rather than the bio-medical model.

**Internal Medicine**


**Division of Cardiovascular Medicine**


**Division of Hematology/Oncology**

Chairman and Clinical Assistant Professor: B. M. Krein; Clinical Assistant Professors: A. E. Hano, B. S. Horowitz, J. B. Leslie, H. Saber, Clinical Instructor: J. I. Weisberg

**Division of Medical Diseases of the Chest**

Chairman & Associate Professor: C. F. Corales; Clinical Associate Professors: E. B. Bolton, Jr., A. N. Ottaviani; Clinical Assistant Professor: D. J. O'Leary

**Division of Nephrology**

Chairman & Clinical Assistant Professor: C. M. Glasser

**Internal Medicine I—Endocrinology**

The student will gain an understanding of the abnormalities of the endocrine system. Endocrine function studies will be presented in conjunction with the etiology, diagnosis and treatment of disease states.

**Internal Medicine II—Pulmonary Medicine**

A complete discussion on pulmonary disease will be presented. Emphasis will be placed on ventilatory management, blood gases, bronchoscopy and occupational lung diseases.

**Internal Medicine III—Gastroenterology**

A detailed program on gastrointestinal diseases will be presented. This will include a review of x-ray and laboratory findings.

**Internal Medicine IV—Rheumatology**

The goal of this course is to instruct the student in the arthropathies. Physical diagnosis, x-ray and laboratory diagnosis, and therapeutic measures will be discussed.

**Internal Medicine VI—Infectious Diseases**

This program will include the basic principles for the diagnosis and treatment of the febrile patient. Mechanisms and actions of antibiotics will be included.

**Internal Medicine VII—Nephrology**

This course will provide the student with a complete evaluation of renal function including metabolic acidosis and alkalosis and disorders of water metabolism. Hypertension, dialysis and other diseases of the kidney will be covered.

**Internal Medicine VIII—Hematology/Oncology**

The goal of this course is to prepare the student to identify and treat hematologic and neoplastic disorders through discussion of the anemias and other abnormalities. The student will be introduced to cancer as a common, chronic and treatable disease with emphasis placed on recognizing etiologic factors and symptom patterns, all appropriate diagnostic studies and treatment modalities.

**Internal Medicine IX—Electrocardiography**

This course stresses the understanding of the electrophysiological principles leading to the genesis of both normal and abnormal electrocardiograms. Clinical correlation with ECG's is stressed.

**Internal Medicine X—Cardiovascular Medicine**

The approach to the patient with cardiovascular disease will be reviewed. A discussion of cardiac physiology will be followed by instruction in all forms of cardiovascular disease. The cardiac patient simulator "Harvey" is utilized to present inclusive clinical disorders. Peripheral vascular diseases are included in this course.

**Medical Communication**

Chairman & Professor: A. Melnick; Assistant Professor: Janice Gottlieb
Microbiology
Chairman & Professor: H. E. Laubach; Associate Professors: H. Hada; S. O. Obenauf

Microbiology I—Immunology and Bacteriology 97 Hours
Immunology involves the study of the biological role of lymphocytes, lymphocyte products and phagocytic cells in relation to infectious and noninfectious diseases. Laboratories will cover basic techniques used to diagnose immunological abnormalities. Bacteriology is an introduction to the basic morphology, physiology, genetics, metabolism and pathogenesis of medically important bacteria. Special emphasis is placed on the diagnosis and treatment of bacterial diseases. Laboratory exercises address the concepts of bacterial morphology, taxonomy, identification, and antibiotic testing.

Microbiology II—Mycology, Parasitology and Virology 62 Hours
The mycology course includes the study of the taxonomy, physiology, pathogenesis, diagnosis and treatment of pathogenic fungi. Laboratories cover basic physiological and taxonomical aspects of the diagnosis of yeasts and molds. The study of eucaryotic parasites includes the taxonomy, pathogenesis, diagnosis and treatment of infections with protozoans, helminths and arthropods. Laboratories are designed to train students in basic clinical methodology. The virology course emphasizes the basic morphology, taxonomy, life cycles, genetics, pathogenesis, immunity, diagnosis and treatment of human viral diseases. Laboratories study virus infectivity and pathogenesis.

Neurology
Chairman & Professor: A. B. Surloff; Clinical Associate Professor: B. J. Cutler; Clinical Instructors: L. Butera, V. Salanga

A discussion of neurological illness will be supplemented with patient case presentations. Students will be introduced to neurological illnesses as well as interesting neurological phenomena.

Obstetrics and Gynecology
Chairman & Professor: D. R. Barkus; Clinical Professor: B. L. Stalnaker; Clinical Associate Professors: J. T. Fischer, R. A. Kronstadt; Clinical Assistant Professors: W. Burrows, R. Kreinest, J. M. Lynn, M. Newman; Clinical Instructors: S. Duncan, S. Fox

Obstetrics and Gynecology I—Gynecology 36 Hours
This course begins with a review of the functional anatomy, embryology and physiology of the human reproductive organs. The student is taught to evaluate the female patient, after which non-surgical and surgical diseases are reviewed from the standpoint of diagnosis and management. The student is then taught sexuality, conception control and pre- and post-operative surgical management to complete the course.

Obstetrics and Gynecology II—Obstetrics 36 Hours
A systematic study of pregnancy, labor and puerperium. Beginning with a review of anatomy, embryology and the physiology of human reproduction, students are taught the management of the normal pregnancy, labor and delivery followed by studies in the recognition and management of the abnormal pregnancy.

Ophthalmology
Chairman & Associate Professor: W. Bizer; Professor Emeritus: E. D. Hersh; Clinical Assistant Professors: R. L. Bentz, R. J. Guliner, E. R. Leonard, A. L. Rubin

Ophthalmology 18 Hours
The didactic material cover the ocular manifestations of systemic medical and neurological disease. The general nature of the major ocular conditions including glaucoma, strabismus, presbyopia and cataract is stressed. The course includes lectures, tapes and practical laboratory periods.
Pathology I—General Pathology
The pathology course will correlate the pathological processes of disease with the pathophysiology involved in the organs and tissues of the body.

Pathology II—Clinical Pathology
Clinical pathology presents the laboratory procedures involving studies of body fluids (urine, blood, spinal fluid, etc.) and their interpretation in the disease process.

Pediatrics
Chairman & Associate Professor: C. Blavo; Professor: A. McElnic; Clinical Associate Professors: D. Marcus, M. Marcus, E. J. Marsh; Clinical Assistant Professors: I. Fialko, S. M. Haynes, A. M. Johnson, D. L. Ragonesi, C. J. Schubert, M. Westin

Pediatrics I
The first semester in pediatrics will introduce growth and development, nutrition, psychological pediatrics and the newborn and premature infant. The normal infant and child will be emphasized followed by a systematic study of disease processes in the pediatric age group.

Pediatrics II
Presentation of childhood illnesses by system will be continued in this semester. Special problems in the field of pediatrics and a study of adolescent medicine will complete the course.

Pharmacology
Chairman: Vacancy; Assistant Professor: J. Barakel; Adjunct Assistant Professor: L. Crespo

Pharmacology
This course begins with a thorough grounding in the principles of drug action. The classes of drugs used in clinical practice will be examined in detail, with particular emphasis on structure and activity, mode of action, side effects, toxicity and drug interactions. The pharmacological intervention of pathophysiological processes will be stressed as well as the clinical application of each drug class.

Physiology
Chairman and Professor: H. J. Lyons; Associate Professor: S. Taraskevich; Assistant Professors: H. Benghuzzi, C. Woody
Medical Physiology I—General Physiology  
A comprehensive study of human physiology presented from an organ systems approach. The course will include the study of general (cell, membrane, muscle) and cardiovascular physiology. Laboratory experience will reinforce lecture presentations and acquaint students with scientific methods and reasoning.

Medical Physiology II—Systems Physiology  
A continuation of Medical Physiology I. This course emphasizes renal, gastrointestinal, respiratory, endocrine, reproductive and neurological physiology.

Psychiatry  

Psychiatry I—Introduction to Psychiatry  
This course provides the student with a solid base for the understanding of human behavior and the application of this understanding in his future role as a physician. The course material will be presented in the context of being integrated into a humanistic, holistic, bio-psychological approach to the patient.

Psychiatry II—General Psychiatry  
This course will present to the student the essentials of clinical psychopathology including the symptoms, diagnosis and treatment of mental, emotional and behavioral problems in children, adolescents and adults.

Radiology  
Chairman & Professor: P. M. Dworkin; Emeritus Professor: D. Finkelstein; Professor: J. G. Stella; Clinical Professors: F. Manlio, S. R. Rente, Jr.; Clinical Associate Professors: J. J. Jackerson, B. E. Pyko; Instructor: I. G. Murray; Clinical Instructors: R. Burke, R. Farber; Adjunct Clinical Instructor: M. Finkelstein

Radiology—Clinical Radiology  
The course is designed to integrate the material learned in Pathology and correlate this with pathological radiographic anatomy. The student will gain familiarity with various imaging studies. Also included are materials on radiobiology and radiotherapy.

Surgery  
Chairman & Assistant Professor: E. Weiner; Professor Emeritus: S. Kaye; Clinical Professor: M. A. Longo; Clinical Associate Professors: R. Laskody, A. La Torra; Clinical Assistant Professor: A. N. Fields; Instructor: A. A. Netzman; Clinical Instructor: B. Silverman

Division of Orthopedic Surgery  
Chairman & Professor: B. B. Swartz; Professors: M. J. Morris, M. Rech; Associate Professor: D. L. Gula; Clinical Instructor: P. Christ

Division of Plastic Surgery  
Chairman & Clinical Associate Professor: C. B. Radlauer

Division of Urology  
Chairman & Professor: W. A. Steinsnyder; Professor: H. R. Steinsnyder; Clinical Associate Professors: R. A. Hoffberger, R. Rappel; Clinical Assistant Professor: R. B. Antosk

Surgery I—Basics in Surgery  
This course will cover the basic concepts common to all surgery. Subjects will include homeostasis, shock, fluid and electrolyte balance and other necessary principles.

Surgery II—General Surgery  
Surgery and its subspecialities will be presented with emphasis upon the structural derangement underlying the disease process and on the surgical reestablishment of the functional integrity of the organ system. Surgical advances including transplantation and implant of prosthetic devices will be presented, to prepare the family practitioner to advise the patient and family in choice of therapy.

Surgery IV—Urology  
Urology will be presented in a structure/function relationship approach. Relevance of basic science to clinical treatment is stressed.

Surgery V—Orthopedics  
Orthopedic surgery will be presented to prepare the student for the diagnosis and treatment of basic orthopedic problems. Fracture care will be covered with emphasis on the role of family practitioners.
Special Academic Programs

Seven Year Family Medicine Program (SYFAM)

Recognizing the need for family medicine practitioners, the Southeastern University of the Health Sciences College of Osteopathic Medicine (SECOM) has established a seven-year track for entering students. This ensures an uninterrupted education for students committed to family medicine, and will eliminate the need for repeated applications and competition for internships and residencies.

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

For the first year, forty slots in the entering class will be set aside for this specific track. During the medical school years, students on this track will be organized into a special group and receive benefits such as special education programs, subsidized attendance at state and national meetings of the American College of General Practitioners and similar activities. A qualified family medicine physician will be appointed advisor to the group.

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

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

SYFAM Affiliations

Internship Affiliations

<table>
<thead>
<tr>
<th>Hospital Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palmetto General Hospital</td>
<td>Hialeah, Florida</td>
</tr>
<tr>
<td>Sun Coast Hospital</td>
<td>Tampa, Florida</td>
</tr>
<tr>
<td>Universal Medical Center</td>
<td>Plantation, Florida</td>
</tr>
</tbody>
</table>

Residency Affiliations

<table>
<thead>
<tr>
<th>Hospital Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broward Family Health Center</td>
<td>Fort Lauderdale, Florida</td>
</tr>
<tr>
<td>Wellington Regional Medical Center</td>
<td>West Palm Beach, Florida</td>
</tr>
<tr>
<td>Westchester General Hospital</td>
<td>Miami, Florida</td>
</tr>
</tbody>
</table>
Area Health Education Center (AHEC)

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

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

The first AHEC center, the Everglades AHEC, reaches underserved areas within a ten-county region covering about 10,000 square miles from the inner cities of northern Dade County to rural communities around Lake Okeechobee. Based on the success of the Everglades AHEC, the University was awarded additional funding to develop a Central Florida AHEC in fall, 1988, nine more counties and an additional 10,000 square miles.

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

AHEC also has a close relationship with Florida’s three other medical schools in a state-wide AHEC program, now supported additionally by a Florida legislative grant.

Rural Medicine Program

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

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

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

Combined Degree Programs

Southeastern University has established a joint degree program with Nova University. The Nova affiliation allows candidates to receive their doctoral degrees in either osteopathic medicine, pharmacy, or optometry in a seven-year period.

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

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

Student Council

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

The Student Council President is SECOM’s representative on the Council of Student Council Presidents (CSCP). CSCP is an organization composed of student government presidents from each of the osteopathic medical schools.

National Osteopathic Women Physicians Association (NOWPA)

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

International Osteopathic Student Organization

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

Phi Sigma Gamma

Phi Sigma Gamma is a national professional fraternity for men. The fraternity was originally founded in 1910 in Chicago and presently has chapters in most osteopathic medical colleges. The IOTA Chapter was chartered in March of 1986.

Sports Medicine Club

The object of this organization is to promote and advance the discipline of sports medicine and to instruct students who are interested in sports medicine and its structural relationships to health and disease.

Student Association Auxiliary

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

Student Osteopathic Medical Association

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

The Undergraduate American Academy of Osteopathy

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

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

Undergraduate Chapter of American College of General Practitioners in Osteopathic Medicine and Surgery

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

Undergraduate Chapter, American College of Osteopathic Pediatricians

This organization is open to all students interested in osteopathic pediatrics. Seminars and educational programs are presented.

Cuban Osteopathic Medical Association

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

Undergraduate Chapter, Student National Medical Association

The Student National Medical Association advocates for improved, culturally sensitive health care services and education for neglected or underserved populations. Although consisting primarily of African-Americans, SNMA's array of members reflects the organization's appeal to students and professional everywhere; the membership also includes Africans, West Indians, Latin Americans, Asians, Middle Easterners, and Caucasians, all of whom bring a global perspective to the medical education and health care issues the organization addresses.
College of Pharmacy
right drug, in the right amount, for the right length of time, and with a minimum of adverse effects. The result is improved health care.

Most pharmacists practice in patient-oriented settings: the community (which includes self-employment), the hospital, the extended care facility or the public health clinic. In addition, pharmacists are employed by the pharmaceutical industry in research and development, in manufacturing or as medical service representatives. They also work in educational institutions, government agencies, health maintenance organizations and home-based health care programs.

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

Council of Overseers

Jay M. Tischenkel, R.Ph.
Chairman
Beech Mountain, North Carolina
Retired President
Continental Drug Company

Mrs. William S. Apple
Falls Church, Virginia

Paul A. Eger, R.Ph.
South Miami, Florida
Director of Pharmacy
South Miami Hospital

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

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

David J. Osterberger, Pharm. D.
Miami, Florida

Philip Sacks, R.Ph.
Fort Lauderdale, Florida
Past President
American Pharmaceutical Association

John Stadnik, R.Ph.
Miami Springs, Florida
President,
Miami Springs Pharmacy

Joel M. Wilentz, M.D.
Hallandale, Florida
Pharmacist and Dermatologist

David L. Wingate, M.B.A.
Deerfield, Illinois
Corporate Manager Recruitment
Walgreen Company
Accreditation
The American Council of Pharmaceutical Education has accredited the Bachelor of Science in Pharmacy program and the Doctor of Pharmacy program of the College of Pharmacy, Southeastern University of the Health Sciences. The College of Pharmacy is a member of the American Association of Colleges of Pharmacy.

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

Requirements for Admission
The College selects students based on pre-pharmacy academic performance. This includes aptitude test (SAT, PCAT or ACT) scores, personal interviews, written applications and letters of evaluation.

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

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

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

1. A completed application form along with a $50, nonrefundable application fee.
2. A letter of evaluation from the undergraduate Pre-Professional Committee, or if such a committee does not exist, three letters of evaluation, two from science professors and one from a liberal arts professor.
3. A letter of reference from a registered pharmacist is recommended.
4. Official PCAT scores (or SAT or ACT scores if less than 5 years old.)
5. Official college transcripts from all undergraduate and graduate institutions attended.

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

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

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

Tuition and Fees
Full Time Professional Program
The College has established the following tuition and fees:
1. Tuition and fees for Florida residents--$8,850 for the 1993-94 academic year and $11,850 for out-of-state residents.
2. Acceptance Fee: $100. This fee is required to reserve the accepted applicant's place in the entering first year class. This advance payment will be deducted from the tuition payment due on registration day, but is not refundable in case of withdrawal. It is payable within two weeks of the applicant’s acceptance.

3. Deposit: $400. This fee is due March 15.

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

5. Student Activities Fee-$100, payable at the time of first semester registration. The first semester’s tuition and fees ($4,425), less the $1,100 previously paid, are due on or before Registration Day. Tuition for the subsequent semester ($4,400) is due on or before Registration Day for that semester. Students will not be admitted until their financial obligations have been met.

Post Graduate Doctor of Pharmacy Program

The College has established the following Postgraduate Pharm.D. tuition and fees:

1. Tuition: $260 per credit hour.

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

3. Pre-registration Fee: $150. Due March 15, under the same terms as the Acceptance Fee.

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

Financial Aid

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

Private Programs

A. Doris D. Forman Fund
B. Eckerd Drug Scholarship/Loan Program
C. SECOP Student Loan Program
D. Florida Society of Hospital Pharmacists Scholarship Award
E. Burroughs Wellcome Scholarship Program
F. National Association of Retail Druggists (NARD) Loan Program
G. Broward County Pharmacy Association Scholarship
H. Jay Tischenkel Scholarship

I. Walgreen’s Drug Scholarship/Loan Program
J. Memorial Hospital Scholarship/Loan Program
K. National Association of Chain Drug Stores Scholarship
L. Paul & Ellen Magalian Scholarship Award
M. AZO/Morris Silver Scholarship
N. K-Mart Scholarship
O. Morris Cody Scholarship
P. National Hispanic Scholarship Fund
Q. American Fellowships, The American Association of University Women
R. Business and Professional Women’s Career Scholarship
S. Advancement Scholarship

Federal Programs

Program

Exceptional Financial Need
Scholarship (generally one per year) monthly stipend
Pell Grant
Guaranteed Student Loan
Supplemental/Parent Loan
Health Education Assistance Loan
(Eligibility begins during second year of pharmacy study)

Maximum Annual Award

Exceptional Financial Need
Scholarship $2,300
Pell Grant $4,000
Guaranteed Student Loan $4,000
Supplemental/Parent Loan $6,000
Health Education Assistance Loan $12,500

Graduation Requirements

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

a. Be of good moral character.
b. Have satisfactorily passed all prescribed examinations.
c. Have satisfactorily completed the assigned curriculum requirements for the degree, including all assignments with a grade point average of 2.0 or a numerical average of 70 or above.
d. Have satisfactorily discharged all financial obligations.
e. Transfer students must complete a minimum of 15 credit hours of didactic course work in addition to all experiential requirements.

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

Internship

Internship is a requirement for licensure but not for graduation from the College of Pharmacy. Internship must be completed within the guidelines of the Florida Board of Pharmacy as set forth in the Rule, Chapter 215-1, or the board of pharmacy in the state in which the student plans to fulfill the requirements for internship. The College’s
Director of Experiential Programs provides assistance and guidance to students entering internships.

Students opting for the B.S. in Pharmacy degree are required to complete 200 hours of internship in addition to the College's externship and clerkship, in order to fulfill the requirement for licensure in Florida. Students who pursue the Doctor of Pharmacy degree do not need to fulfill any additional internship hours in order to become licensed in Florida.

The Pharm. D. Degree
Course of Study—Full time Professional Program
First Year
The first year of the professional curriculum provides a foundation in the basic sciences. For efficient learning, anatomy, pathology and physiology are integrated into one course. Similarly, medicinal chemistry and pharmacology have been combined into one course entitled Pharmacodynamics. Students begin Pharmaceutics at this time by investigating certain principles of pharmacy which continue into pharmacokinetics. Pharmacy administration provides insight into the business and human relations of pharmacy practice.

Second Year
The second year of the professional curriculum is applied. Therapeutics addresses the use of drugs in the disease process. Physical assessment teaches how to monitor the progress of drug therapy. Pharmaceutics is concerned with the science of dosage forms. A pharmacy law course and a prescription practice course provide background for legally and ethically dispensing prescriptions. Pharmacy Administration gives understanding of the social and economic aspects of health care.

Third Year
In the third year, students pursuing the Pharm.D. degree hone their analytical skills. Courses in statistics and experimental design, drug literature evaluation and the interpretation of biopharmaceutics and laboratory data are included. An advanced course in pharmacotherapeutics is also offered. The second half of the third year is externship which is described under the bachelor of science curriculum.

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

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

All students accepted into the College are enrolled in the Pharm.D. Program. During the second year of professional study, students may petition to pursue the B.S. in Pharmacy Degree. Those petitions must be filed March 1 of the student's second professional year.

Students selecting the B.S. option will complete their education during the third professional year with a full year of practical experience. The first semester, externship, is a full-time experience working under the tutelage of a pharmacist. Half the semester is spent in a community pharmacy and half in in a hospital pharmacy.

The second component of the third year is clinical clerkship in which each student works full-time under the supervision of a pharmacist whose primary responsibility is to monitor drug usage in a clinical setting, often at the patient's bedside.

CURRICULUM OUTLINE

First and Second Years

Same as above for the Pharm.D. curriculum

Third Year

First Semester

Externship I ................. 7
Externship II ................ 7

Credits ..................... 14

Second Semester

Clerkship I (I.M.) ............... 3.5
Clerkship I (AMB) .............. 3.5
Clerkship I (GER) .............. 3.5
Clerkship I (D.I.) .............. 3.5

Credits ..................... 14

The Difference Between B.S. and Pharm. D. Programs

The patient-oriented aspect of pharmacy continues to grow in importance. This is evident in Florida where the role of the pharmacist has expanded significantly because of the state's large elderly population.

Accordingly, the curriculum at the Southeastern College of Pharmacy (SECOP) is especially strong in the clinical areas for students at both the B.S. and Pharm.D. levels. This emphasis is apparent from the following:

1. The intensity of the experiential component. B.S. candidates have one full semester of externship in drug distribution and one full semester of clerkship. Pharm.D. candidates have an additional semester of clerkship which allows practice with a greater comprehension of drug therapy.

2. The intensity of the pharmacology and therapeutics courses. The total time devoted to these areas is significant, especially at the B.S. level because all pharmacists need to thoroughly understand disease processes and therapeutics. This knowledge is increased further for Pharm.D. candidates by the addition of advanced pharmacotherapeutics in the last semester of didactic coursework.

3. The addition of physical assessment for both B.S. and Pharm.D. candidates. Since pharmacists monitor the progress of drug therapy, this is essential for all graduates. Therefore, both curricula reflect a commitment to clinical pharmacy. Both B.S. and Pharm.D. clerkships have similar goals and objectives; however, there are different expectations of performance for each degree. To facilitate instruction and evaluation, similar degree students are grouped whenever possible.

Pharm.D. graduates generally enter a practice which has a high demand for clinical skills. The Pharm.D. curriculum has an additional semester of clinically relevant didactic coursework and an additional semester of specialized clinical clerkships. Thus these graduates are especially competent in monitoring drug therapy in various practice settings.

Although the B.S. curriculum has much clinical coursework and many clerkships, graduates are not expected to enter a practice which requires high clinical skills. B.S. graduates generally enter a generalized pharmacy practice which requires drug distribution and pharmacy management as well as clinical pharmacy skills. The clinical expertise of these graduates is sufficient for general practice but needs further development for practices which are primarily devoted to in-depth drug monitoring and drug utilization reviews.

The Postgraduate Doctor of Pharmacy Program

In addition to the full-time entry-level Pharm.D. degree curriculum, the College offers the Postgraduate Doctor of Pharmacy program to practicing professional pharmacists. The program helps pharmacists prepare for the role they will perform by the year 2000 and beyond.

SECOP offers a campus-based Pharm.D. program for B.S. pharmacists which has distinct advantages over many external degree programs. Courses are taught in person by highly qualified faculty, allowing the full benefit of interaction. Students can use the medical/pharmaceutical library, computer room, and other learning resources. The program is uncompromising in quality, but highly flexible to meet the needs of working pharmacists. Courses are offered in the evening to accommodate students' work schedules.

A recent survey identified lack of time for clinical clerkships as one of the biggest problems confronting pharmacists seeking the Pharm.D. degree. While the SECOP program requires clinical clerkships, these may be taken in one-month blocks, and some may be completed on a part-time basis. Some credit may be extended for documented life experiences when pharmacists have practiced in a clinical setting for a sufficient time. Although the one-month, full-time clerkship modules do not have to be taken in succession, all pharmacists entering the program must complete five one-month modules on a full-time basis within two to three years.

Applicants must be graduates of a college of pharmacy accredited by the American Council on Pharmaceutical Education and have a grade point average of at least 2.0 on a 4-point scale. They must also be in good standing with the board of pharmacy in their state.
Course of Study

The first year curriculum is devoted to advanced pathophysiology and analytical skills. Experimental design and statistics as well as the interpretation of biopharmaceutic and laboratory data are offered for the first year. The skills gained during the second year enable students to perform at a higher level in monitoring drug therapy.

Upon completion of twenty-four semester hours of coursework, students are prepared to pursue clinical clerkships. These last an entire academic year for those students who have had little, if any, clinical experience. Students possessing more clinical experience may receive credit for some life experiences and will not pay full clerkship tuition. However, a minimum of $2,500 is charged for clerkships regardless of life experience credits granted.

A fully committed part-time student takes two courses per semester. At this rate, the didactic curriculum can be completed in two years. Students may also pursue coursework at a slower rate. At the slow rate, one course per semester, the didactic curriculum requires four years. Most students complete the didactic portion in three years. No more than five years should elapse between the beginning of coursework and the beginning of the full-time clinical clerkship. No more than seven years should elapse between the beginning of didactic work and the completion of clerkships. Transfer students from other post-baccalaureate degree programs must complete at least 15 semester hours of didactic coursework at SECOP before beginning clerkships.

CURRICULUM OUTLINE

First Year
First Semester
Advanced Pathophysiology I ......... 3
Experimental Design & Statistics ... 4
Credits ......................................... 7
Second Semester
Advanced Pathophysiology II ...... 3
Interpretation of Biopharmaceutics
and Laboratory Data .................. 4
Credits ......................................... 7

Second Year
First Semester
Advanced Therapeutics ............ 3
Physical Assessment ............... 2
Credits ......................................... 5
Second Semester
Advanced Therapeutics II
(Minority & Geriatric) ............ 4
Drug Literature Evaluation .......... 2
Credits ......................................... 6

Third Year
First Semester
Clerkship II (I.M.) ............... 3.5
Clerkship II (AMB) ............... 3.5
Clerkship II (GER) ............... 3.5
Clerkship II (D.I.) ............... 3.5
Credits ......................................... 14
Second Semester
Clerkship III-A ............... 3.5
Clerkship III-B ............... 3.5
Clerkship III-C ............... 3.5
Clerkship III-D ............... 3.5
Credits ......................................... 14

Clerkship

SECOP provides innovative practice experiences to its students during their education. Off-campus pharmacy practices provide hands-on experience in the externship and clerkship. Affiliated practice sites are within the greater Miami/Fort Lauderdale area.

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

Objectives

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

College of Pharmacy Courses

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

Biochemistry

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

Biochemistry (4 c.h.) 60 Hours
The structures, functions, and metabolism of lipids, proteins, carbohydrates and nucleic acids will be followed by a detailed consideration of coagulation, muscle, connective tissue, cancer, digestion and absorption, nutrition, and endocrinology. Pharmaceutical application of this material will be included.
Microbiology
Chairman & Professor: H.E. Laubach; Associate Professor: H. Hada; S.D Obenauf

Microbiology (3 c.h.)
A study of the fundamental principles underlying the nature of infectious microorganisms. Special emphasis is placed on cause, prevention and control of infectious diseases. Topics include immunology, mycology, parasitology, bacteriology and virology. Laboratory exercises cover identification of microorganisms and antibiotic testing.

Pharmacy Administration
Acting Chairman & Associate Professor: P. Magalian; Professor: M.J. Carvajal, W.D. Hardigan; Associate Professors: D.L. Arneson, E.S. Jaffry, C.A. Rodowskas, D.E. Shaw,

Dean's Hour I (0 c.h.)
Introduction to Pharmacy education and profession.
Prerequisite: P-I Standing

Dean's Hour II (0 c.h.)
Continuation of Dean’s Hour I

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

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

General Education I (3 c.h.)
Rotating topics in the behavioral and social sciences.

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

General Education II (3 c.h.)
A continuation of general education.
Prerequisites: General Education I or Permission

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

Experimental Design and Statistics (4 c.h.)
Fundamental principles of statistics and experimental design

Pharmaceutical Sciences
Chairman and Professor: A. Malave; Associate Professor: J. Triplett; Assistant Professors: J.C. Chen, D.M. Gazze, J.J. Marcus, S. Narayan, T. Oh, A. Rathanelelu; Instructor: R. Finkel

Pharmacy Calculations (1 c.h.)
A systematic study of the fundamental mathematical principles employed and problems commonly encountered in compounding and dispensing pharmaceutical preparations.

Physical Pharmacy (3 c.h.)
The theory and application of physiochemical principles to pharmaceutical systems.

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

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

Pharmacodynamics II (4 c.h.)
A continuation of Pharmacodynamics I with emphasis on cardiovascular agents, drugs affecting the endocrine system, autacoids and antithrombotic, anticoagulant and thrombolytic agents.
Prerequisites: Pharmacodynamics I, Biochemistry, Pathophysiology I
Pharmacodynamics III (6 c.h.)
A continuation of Pharmacodynamics II with special emphasis on drugs acting on the central nervous system, vitamins and minerals.
Prerequisites: Pharmacodynamics I, Pathophysiology I & II, Biochemistry

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

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

Prescription Practice (3 c.h.)
The application of scientific, legal and ethical principles to the compounding and dispensing of medicinal agents used in modern medical practice. The analysis, interpretation and evaluation of prescription products in various forms is included.
Prerequisites: Pharmacodynamics I, II, & III, Therapeutics I
Co-requisites: Pharmacodynamics IV, Therapeutics II

Interpretation of Biopharmaceutic and Laboratory Data (4 c.h.)
An introduction to physiochemical and biological parameters influencing drug action. Variables in formulations and physiological considerations are examined in terms of their effect upon the absorption, distribution, metabolism and excretion of medicinal agents. Also included is the interpretation of laboratory data and its effect on prescribing.
Prerequisites: PD-3 standing

Pharmacy Practice
Chairman & Associate Professor: S.A. Swigart; Assistant Professors: G.M. Armayor, L.P. Barclay, C. Blumenthal, R.J. Colosino, S.M. Cronin, L. Deziel-Evans, T. Ellington, L. Frenzel-Shepherd, D. Krieff, D.R. Kummerle, A. Nestor, J.A. Rey;
Instructors: S. Patel, D. Segovia

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

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

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

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

Advanced Pharmacotherapeutics (6 c.h.)
An advanced continuation of therapeutics focusing on topics which present difficult therapeutic challenges and newly emerging therapeutic modalities.
Prerequisites: PD-3 standing

Externship I (7 c.h.)
An eight-week, off-campus rotation in a supervised community pharmacy. Rotations promote the application of didactic knowledge in non-simulated environments, development of competency in pharmacy practice and further development of communication skills. The full-time (40hr/wk) rotation emphasizes the distributive and management aspects of pharmacy.
Prerequisites: Successful completion of all didactic course work

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

Advanced Therapeutics I (3 c.h.)
Discusses the principles and application of rational pharmacotherapeutics for various disease states. Includes drug selection and monitoring drug therapy. Influences of therapy will include, wherever applicable, culturally derived health benefits and practice, age-related issues and current issues relating to appropriate drug therapies. This course is designed for Postgraduate Pharm.D. students.
Prerequisite/Co-requisite: Advanced Pathophysiology I
Advanced Therapeutics II (4c.h.) 
60 Hours

Continuation of Advanced Therapeutics I with emphasis on infectious, neoplastic and rheumatic diseases. Contraceptives, drug abuse, hospice, and pain management are also covered. The course is for the Postgraduate Pharm.D. student.

Prerequisite: Advanced Pathophysiology I
Co-requisite: Advanced Pathophysiology II

Clerkship I

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

Prerequisites: Successful completion of all didactic course work

Ambulatory Care (3.5 c.h.) 
160 Hours

Features interaction with ambulatory patients. Students participate as members of the health care team to encourage rational drug therapy through extensive patient monitoring. Students obtain medical and drug information directly from patients during interviews.

Drug Information (3.5 c.h.)
160 Hours

Students participate in drug information retrieval, formulation of responses, preparation of drug evaluations, in-services, cost-containment studies, drug utilization evaluations and other aspects of drug information for health care practitioners and the public.

Geriatric Care (3.5 c.h.)
160 Hours

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

Internal Medicine (3.5 c.h.)
160 Hours

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

Clerkship II

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

Prerequisites: Successful completion of all didactic course work

Ambulatory Care (3.5 c.h.)
160 Hours

Advanced therapeutic management of Ambulatory Care in Clerkship I.

Drug Information (3.5 c.h.)
160 Hours

An advanced therapeutic management of Drug Information in Clerkship I.

Geriatric Care (3.5 c.h.)
160 Hours

An advanced therapeutic management of Geriatric Care in Clerkship I.

Internal Medicine (3.5 c.h.)
160 Hours

An advanced therapeutic management of Internal Medicine in Clerkship I.

Clerkship III A-D (14 c.h.)
640 Hours

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

Prerequisites: Successful completion of all didactic course work

Anatomy and Pathophysiology I (5 c.h.)
80 Hours

A study of basic disease processes with emphasis on functional changes and the supporting nomenclature and terminology. A prerequisite for a course in therapeutics. Included are body fluids, cell structure and function, biophysics, cell injury and neoplasia, tissues, skin, skeletal and muscle systems, nervous system, hematology and immunology. Each is addressed from the standpoint of basic physiology as well as disease processes.

Anatomy and Pathophysiology II (5 c.h.)
80 Hours

A continuation of Anatomy and Pathophysiology I. Covered are cardiovascular,
respiratory, renal, gastrointestinal, metabolic, endocrine, and reproductive systems. **Prerequisites:** Anatomy & Pathophysiology I, or Permission

**Advanced Pathophysiology I (3 c.h.)**

For post-graduate Pharm.D. students to gain a physiological understanding of disease processes. Cellular physiology, neurophysiology, hematology, immunology and cardiovascular physiology are presented along with pertinent disorders in each area.

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

**Advanced Pathophysiology II (3 c.h.)**

A continuation of Advanced Pathophysiology I. Areas include respiratory physiology, renal physiology, digestion and metabolism, endocrine and reproductive physiology, and infectious diseases.

**Prerequisites:** Advanced Pathophysiology I or Permission

**Externship/Clerkship Sites**

The following institutions are affiliated with SECOP for experiential education:

- **Alden Care**
  Boca Raton, FL

- **Allen Drugs**
  South Miami, FL 33155

- **Americare**
  Miami, FL 33162

- **Aventura Hospital and Medical Center**
  Miami, FL 33180

- **Baptist Hospital**
  Miami, FL 33176

- **Bascom Palmer Eye Institute**
  Miami, FL 33103

- **Bay Pines VA Medical**
  Bay Pines, FL 33504

- **Boca Raton Community Hospital**
  Boca Raton, FL 33432

- **Brickell Pharmacy**
  Miami, FL 33131

- **Broward Family Health Center**
  Southeastern University
  Fort Lauderdale, FL 33312

- **Broward General Medical Center**
  Fort Lauderdale, FL 33316

- **Budget Pharmacy**
  Miami, FL 33125

- **Cape Coral Hospital**
  Cape Coral, FL 33915

- **Care Florida**
  Miami, FL 33166

- **Center Pharmacy**
  St. Petersburg, FL 33710

- **The Chemist- Promenade Shops**
  North Miami Beach, FL 33180

- **Cleveland Clinic Hospital**
  Ft. Lauderdale, FL 33308

- **Coral Gables Hospital**
  Coral Gables, FL 33134

- **Coral Springs Medical Center**
  Coral Springs, FL 33065

- **Doctors Hospital**
  Hollywood, FL 33020

- **Druggist**
  Pembroke Pines, FL 33024

- **Family Health Center Pharmacy**
  Southeastern University
  Opa-Locka, FL 33054

- **Federal DiscountPharmacy**
  North Miami, FL 33161

- **Florida Medical Center**
  Hollywood, FL 33021

- **Freddy's of North Miami Beach**
  N. Miami Beach, FL 33162

- **Greynolds Park Nursing Home**
  N. Miami Beach, FL 33162

- **H. Lee Moffit Cancer Center**
  Tampa, FL 33612

- **Harrington's Professional Arts Pharmacy**
  Naples, Fl 33904

- **HCA Raulerson**
  Okeechobee, FL 34973

- **Health Infusion**
  Miami, FL 33126

- **Hollywood Medical Center**
  Hollywood, FL 33021

- **Holy Cross Hospital**
  Fort Lauderdale, FL 33308

- **Hospice of Palm Beach County**
  West Palm Beach, FL 33407

- **Infusion Therapies, Inc.**
  Davie, FL 33328

- **InstaCare Pharmacy**
  Davie, FL 33328

- **InstaCare Pharmacy Dynamics**
  Miami Lakes, FL 33014

- **Jackson Memorial Hospital**
  Miami, FL 33136

- **James A. Haley VA Medical Center**
  Tampa, FL 33612

- **JFK Medical Center**
  Atlantis, FL 33462

- **Kendall Regional Medical Center**
  Miami, FL 33175

- **Lawnwood Regional Medical Center**
  Ft. Pierce, FL 33454

- **Lee Memorial Hospital**
  Ft. Myers, FL 33902

- **Memorial Hospital**
  Hollywood, FL 33021
The Academy of Students of Pharmacy (ASP) is the student branch of America's largest and oldest association of pharmacists, the American Pharmaceutical Association (APhA). This organization is the only one that represents all practice settings and, at present, has more than ten thousand student members attending seventy-four schools and colleges of pharmacy across the country.

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

**Rho Chi**

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

Rho Chi, like its sister honor societies, seeks to increase the awareness of the ethical and social responsibilities of the profession and thereby to enhance the prestige of the profession.
Phi Lambda Sigma
Phi Lambda Sigma, the national pharmacy leadership society, promotes the development of leadership in pharmacy, especially among pharmacy students. By peer recognition, the society encourages participation in pharmacy activities. Membership crosses fraternal and organizational lines so that the society does not compete with other organizations.

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

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

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

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

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

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

Administration
Stewart Abel, B.S.E., O.D., Dean
Roland E. Gaudette, B.A., B.S., O.D., M.B.A., Associate Dean for Clinical Affairs
Lester Janoff, O.D., M.S., Associate Dean for Academic Affairs
Harold E. Laubach, B.S., M.S., Ph.D., Associate Dean for Basic Sciences
Marla Frohlinger, B.A., Assistant Dean for Admissions and Student Affairs
Howard Purcell, O.D., Assistant Dean for External Affairs
Mary R. Smith, Registrar
Patrick J. Gorman, B.S.H.A., Director of Student Financial Aid
Jeffrey Schneider, M.B.A., C.P.A., Director of Finance
Steven Weinstein, B.S., C.P.A., Comptroller
Steven Culbreth, B.S., Bursar
Emil L. Todaro, B.A., D.O., Executive Director of Development
Janice Gottlieb, M.A., M.L.S., Library Director
Royal Flagg Jonas, B.S., J.D., Legal Counsel

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

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

The Southeastern College of Optometry shares a campus with the Southeastern College of Osteopathic Medicine, the Southeastern College of Pharmacy and the Southeastern College of Allied Health. The College of Optometry was formed in 1988 after a Southeastern University task force learned that the Florida Optometric Association and the American Optometric Association supported the creation of an optometry school in Florida.

Council of Overseers

Don Albert, O.D.
Chairperson
Miami, Florida

Leonard Cherdak, O.D.
Vice Chairperson
Miami, Florida

Charles Pappas, O.D.
Secretary
Bascom Palmer Eye Institute
Miami, Florida

Stewart Abel, O.D.
Dean
Southeastern University
College of Optometry
North Miami Beach, Florida

Almond Edwards, O.D.
Miami, Florida

John L. Krause, O.D.
Tamarac, Florida
President, Florida Retired
Optometrists Association

Alan Levitt, O.D.
North Miami Beach, Florida

Harry Magee
North Miami, Florida

John McClane, O.D.
Fernandina Beach, Florida

Arnold Melnick, D.O.
Executive Vice President and Provost
Southeastern University
of the Health Sciences
North Miami Beach, Florida

Felix Mondejar, O.D.
Miami Beach, Florida

David Popper, O.D.
Miramar, Florida

Morton Terry, D.O.
President
Southeastern University
of the Health Sciences
North Miami Beach, Florida

Don E. Williamson, O.D.
Cape Coral, Florida

Genevieve E. Yarnold
Miami, Florida
Mission Statement

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

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

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

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

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

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

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

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

Requirements for Admission

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

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

The courses shall include the following required subjects:

- Calculus-3 semester hours
- Physics-8 semester hours, including laboratory
- Biology-8 semester hours, including laboratory
- General Chemistry-8 semester hours, including laboratory
- Organic Chemistry-4 semester hours, including laboratory
- Liberal Arts-15 semester hours
- English-6 semester hours
- Statistics-3 semester hours
- Microbiology-3 semester hours, including laboratory

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

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

Application Procedures

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

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

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

The College of Optometry awards a baccalaureate degree to those individuals who do not possess a bachelor's degree and who complete 90 hours and two years of optometric study at Southeastern.

Letters of Evaluation

An evaluation by a pre-professional health advisor or committee is required from the applicant's undergraduate institution. If the evaluation form 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 this same information to the Admissions Committee. A letter of evaluation from an optometrist is highly recommended but not required.

Transcripts

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

Interview

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

Accreditation

The Doctor of Optometry program at the Southeastern University of the Health Sciences College of Optometry has received pre-candidate, preliminary approval accreditation from the American Optometric Association's Council on Education. The AOA Council on Education is the accrediting body for programs in colleges and schools of optometry in the United States. Granting of preliminary approval status brings no rights or privileges of full accreditation to the institution until all requirements are met. Preliminary approval status is the second of three steps a new college of optometry must take to reach full accreditation. After the school passes the required steps as outlined by the AOA Council of Education, it will receive full accreditation.

All professional schools and colleges, whether of optometry, pharmacy or medicine, become eligible for full accreditation upon graduating the first class. Additional information can be obtained from the Southeastern University of the Health Sciences admissions office.

Tuition and Fees

The Board of Trustees has established the following tuitions and fees subject to change at any time at the discretion of the Board:

1. Tuition—$8,900 for Florida residents and $12,900 for residents of all other states for the 1993-94 academic year.
2. Acceptance Fee—$100. This fee is required to reserve the accepted applicants place in the entering first year class. This advance will be deducted from the tuition payment due on Registration Day, but is not refundable in case of withdrawal. It is payable within two weeks of the applicant's acceptance.
3. A second deposit of $400 is required by March 15, under the same terms as the Acceptance Fee.
4. Pre-registration Fee—$500. This is due June 1, under the same terms as the Acceptance Fee.
5. Student Activities Fee—$100, payable at time of first semester registration. The year's tuition and fees, less the $1,000 previously paid, are due on or before Registration Day. Students will not be admitted until their financial obligations have been discharged.

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

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

Financial Aid

The primary purpose of the Student Financial Aid Program at the College of Optometry is to help as many qualified students as possible complete optometry school. All sources of financial aid, scholarships and loans listed in this section are summarized briefly due to the constantly changing requirements, fund availability and interest rates. The financial aid office monitors revisions in these programs and maintains a current status file on each. For further information on any of the following programs, please contact the Director of Financial Aid.

Federal Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Maximum Annual Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stafford Student Loan</td>
<td>$7,500</td>
</tr>
<tr>
<td>Supplemental Loan</td>
<td>$4,000</td>
</tr>
<tr>
<td>Health Education Assistance Loan</td>
<td>$20,000</td>
</tr>
</tbody>
</table>

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

College of Optometry Scholarship

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

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

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

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

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

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

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

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

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

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

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

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

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

Clinic
Students gain experience in the College's three South Florida clinics where they apply their basic knowledge under the direction of clinical facility.

External Education Program
This program provides third and fourth-year professional optometry students with clinical learning experience in multidisciplinary community health facilities serving communities in need of optometric services.
### CURRICULUM OUTLINE

#### First Year, Fall Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Lecture</th>
<th>Lab.</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy I (Histology and Embryology)</td>
<td>2</td>
<td>1</td>
<td>2.5</td>
</tr>
<tr>
<td>Anatomy II (Human Anatomy)</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Geometric Optics</td>
<td>4</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Introductory Optometry</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Microbiology</td>
<td>3</td>
<td>0</td>
<td>3</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td>16</td>
<td>5</td>
<td>18.5</td>
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#### First Year, Spring Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Lecture</th>
<th>Lab.</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vision Science I</td>
<td>2</td>
<td>1</td>
<td>2.5</td>
</tr>
<tr>
<td>(Visual Optics &amp; Psychophysics)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anatomy III (Gross Anatomy of the Head &amp; Neck)</td>
<td>2</td>
<td>1.5</td>
<td>2.5</td>
</tr>
<tr>
<td>Anatomy IV (Neuroanatomy)</td>
<td>2</td>
<td>1.5</td>
<td>2.5</td>
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<tr>
<td>Physiology (Human Physiology/ General Physiology)</td>
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<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Physical Optics</td>
<td>3</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Optometric Theory &amp; Methods I</td>
<td>2</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>Patient Communications</td>
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<td>1</td>
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<tr>
<td><strong>Total Hours</strong></td>
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#### Second Year, Fall Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Lecture</th>
<th>Lab.</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ocular Disease I (Pathophysiology &amp; Genetics)</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Ocular Anatomy</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Ocular Physiology</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Visual Science II (Monocular Sensory Vision)</td>
<td>4</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Ophthalmic Optics I</td>
<td>3</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Pharmacology I (General Pharmacology)</td>
<td>5</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Optometric Theory &amp; Methods II</td>
<td>2</td>
<td>6</td>
<td>3</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td>20</td>
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<td>23</td>
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#### Second Year, Spring Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Lecture</th>
<th>Lab.</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmacology II (Ocular Pharmacology)</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Visual Science III (Binocular Vision)</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Visual Science IV (Ocular Motility)</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Ophthalmic Optics II</td>
<td>3</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Epidemiology and Public Health</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Ocular Disease II</td>
<td>3</td>
<td>0</td>
<td>3</td>
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#### Third Year, Summer Session
<table>
<thead>
<tr>
<th>Course</th>
<th>Lecture</th>
<th>Lab.</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Care Clinic II</td>
<td>2</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Ocular Disease III</td>
<td>4</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Optometric Economics I</td>
<td>2</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Pediatric Optometry</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>10</td>
<td>16</td>
<td>7</td>
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</table>

#### Third Year, Fall Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Lecture</th>
<th>Lab.</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anomalies of Binocular Vision I</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Contact Lenses I</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Ocular Disease IV</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Primary Care Clinic III</td>
<td>2</td>
<td>19</td>
<td>6</td>
</tr>
<tr>
<td>Geriatric Optometry</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Clinical Medicine</td>
<td>3</td>
<td>0</td>
<td>3</td>
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<tr>
<td><strong>Total Hours</strong></td>
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<td>21</td>
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#### Third Year, Spring Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Lecture</th>
<th>Lab.</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anomalies of Binocular Vision II</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Contact Lenses II</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Ocular Disease V</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Primary Care Clinic IV</td>
<td>1</td>
<td>20</td>
<td>6</td>
</tr>
<tr>
<td>Optometric Economics II</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Low Vision (Vision Rehabilitation)</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>12</td>
<td>26</td>
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#### Fourth Year, (3 Trimesters)
<table>
<thead>
<tr>
<th>Course</th>
<th>Lecture</th>
<th>Lab.</th>
<th>Credit</th>
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<tbody>
<tr>
<td>Primary Care Rotation</td>
<td>0</td>
<td>40</td>
<td>10</td>
</tr>
<tr>
<td>Medical/Surgical Care Rotation</td>
<td>0</td>
<td>40</td>
<td>10</td>
</tr>
<tr>
<td>Specialty Care Rotation</td>
<td>0</td>
<td>32</td>
<td>8</td>
</tr>
<tr>
<td>Environmental Optometry</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Optometric Economics III</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Dissertation (Selected Topics)</td>
<td>2</td>
<td>0</td>
<td>2</td>
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<tr>
<td>Clinical Seminar</td>
<td>3</td>
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<td>3</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td>10</td>
<td>112</td>
<td>38</td>
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College of Optometry Courses

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

Anatomy I (Histology & Embryology) 54 Hours
A general overview of histology and embryology with an emphasis on the basic tissues necessary for the understanding of the histology of the eye. Laboratories consist of the study of projected slides and the demonstration of tissues with the light microscope.

Anatomy II (Human Anatomy) 40 Hours
An introductory course designed to give students an understanding of the structure of the human body. The course is presented with an organ systems approach. Laboratory work provides a study of cadaver material.

Anatomy III (Gross Anatomy of the Head & Neck) 72 Hours
A detailed study of the gross structures of the human head and neck, including the eye. Laboratories include dissection of cadavers.

Anatomy IV (Neuroanatomy) 52 Hours
A study of the gross structure of the brain and spinal cord and the functional relationship among their parts. Emphasis is placed upon major motor and sensory pathways and integrative mechanisms of the central nervous system.

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

Biochemistry 54 Hours
The metabolism of proteins, lipids, nucleic acids and carbohydrates will be emphasized, followed by an introduction to the biochemical aspects of the visual, digestive, muscular, respiratory and endocrine systems.

Microbiology
Chairman & Professor: H.E. Laubach; Associate Professors: H. Hada, S.D. Obenauf

Microbiology (Medical Microbiology/Embryology) 75 Hours
The course covers immunology, bacteriology, mycology, parasitology and virology with emphasis on infectious diseases of the eye.

Optometric Basic Science
Associate Professors: W. Abel, B. Gilman, B.V. Graham, M. McKay, S. Schatz

Geometrical Optics 105 Hours
The principles of geometric optics will be taught with examples and optical applications where possible. The course will include study of linear propagation, reflection, refraction, prisms, thin lenses alone and in combination, thick lenses, lens aberrations and some ophthalmic instruments.

Physical Optics 90 Hours
Optical principles, primarily those of wave optics, will be taught with applications, examples and laboratory demonstration. Included are wave equations, interference, diffraction polarization, dispersion, photometry, spectroscopy, lasers and holographs.

Ophthalmic Optics I 108 Hours
Students apply knowledge of geometrical and physical optics to ophthalmic equipment, ophthalmic lenses and prisms, frames, and spectacle prescriptions (writing and verifying). The laboratory has frames, lenses and fabrication sections.

Ophthalmic Optics II 108 Hours
Design and construction of multi-focal lenses are covered. Guidelines for frame and lens choices, alignment and fitting procedures for various prescription requirements are provided. Students gain hands-on experience in selecting, ordering, fabricating, fitting and dispensing spectacles.

Visual Science I (Visual Optics & Psychophysics) 54 Hours
Optical properties of the eye will be considered. Topics include refractive state of eye, retinal image formation, accommodation and entopic phenomena. A discussion of classical and modern methods used to measure visual thresholds will be included. Attempts to formulate a psychophysical law and an alternate to threshold determination, namely, signal detection theory, will be presented.

Visual Science II (Monocular Sensory Vision) 54 Hours
An introduction to perceptual properties of the visual system. Major topics will be: spatial and temporal aspects of vision, theories of color vision, color vision testing, rationale for construction of color vision tests and photoreceptor properties that affect visual perception, i.e., the Stiles-Crawford effect.

Visual Science III (Binocular Vision) 54 Hours
Sensory aspects of depth perception will be covered as well as the physiological substrate for stereopsis, the nature of the horopter, tests which measure stereocuity and principles underlying these tests.
Anomalies of Binocular Vision I
54 Hours
A overview of eye movements. Measurement techniques, types of eye movements and the physiological sub-systems involved in moving the eyes. Emphasis will be on understanding the interaction of eye muscles and physiological signals.

Ocular Anatomy
36 Hours
This course is a detailed study of the gross and microscopic structures of the eye and its adnexa to better understand the alterations that occur in ocular disease and abnormality.

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

Optometric Clinical Science
Professors: S. Abel, R. Gaudette, L. Janoff; Associate Professors: W. Abel, A. Aran, S. Crossman, S. Gorman, S. Holbrook, M. McKay, M. Silverman, J. Solomon, J. Wolfe; Clinical Associate Professors: R. Hutchinson, J. Sowka; Assistant Professors: E. Besada, C. Morrison, H. Purcell; Clinical Assistant Professors: R. Coulter, P. Oliver; Instructor: M. Bergman; Clinical Instructors: B. Forrest, M. Tescher.

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

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

Anomalies of Binocular Vision II
72 Hours
The testing, analysis, diagnosis and management of strabismus and amblyopia will be covered in detail, as well as utilization of lenses, prisms and vision therapy to ameliorate strabismus and amblyopia.

Low Vision (Vision Rehabilitation)
60 Hours
Presents information regarding the etiology, demography, and clinical characteristics of low vision to permit a better understanding of the functional implications of visual impairment in the child and adult. The course presents a systematic approach to the diagnosis and management of visual disorders presenting within these special populations with an emphasis on improving the quality of life and functional capacity of visually impaired persons through the application of magnifications, illumination control and visual field enhancement.

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

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

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

Primary Care Clinic I
72 Hours
Examination of patients in satellite clinics. Presents the procedure for managing clinical patients. It also presents special testing procedures and indications for their application, such as exophthalmometry, worth 4-DOT, gonioscopy, autorefraction, autokeratometry, and Goldmann visual fields.

Primary Care Clinic II
160 Hours
This course continues student training in patient examination. It also presents special testing procedures and indications for their use in clinical practice, such as the Goldmann fundus lens, foreign body removal, rust ring removal, palpation of lymph nodes and carotid pulse auscultation.
Primary Care Clinic III
160 Hours
This course continues student training in patient examination. It also presents special testing procedures and indications for their use in clinical practice, such as computer application in practice, dynamic retinoscopy, examination of children, Schirmer tear test and Jones test.

Primary Care Clinic IV
288 Hours
Students' clinical experience continues with additional information being presented on electrodiagnostic and other specialized testing.

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

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

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

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

Pediatric Optometry
54 Hours
Provides information concerning the visual needs of children and youth. This enables students to put into action their knowledge of anomalies of binocular vision, abnormal vision development and visually-related learning disabilities.

Contact Lenses I
72 Hours
An introduction to contact lenses. It explores the historical, technical and clinical aspects of lens materials as well as lens design and fitting.

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

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

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

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

Optometric Economics III
48 Hours
Prepares the fourth year student to enter the world of optometry by combining and refining the techniques covered in Optometric Economics I and II using practical problem solving. Personal resumes are designed and interview techniques for professional placement are practiced with each student.

Environmental Optometry
30 Hours
Students learn the optometrist's role in assessing and caring for patients.

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

Dissertation—Selected Topics in Optometry
36 Hours
Students will be required to complete a scholarly investigation into an approved topic after the presentation of the elements of a scholarly project, fundamentals of scientific inquiry, experimental design and analysis of data, and presentation of results.
Ocular Diseases
Chairman and Associate Professor: S. Holbrook; Associate Professor: A. Aran; Assistant Professor: A. Woods; Instructor: D.A. Russo

Ocular Disease I (Pathophysiology & Genetics)  54 Hours
This introduction to the study of disease covers each organ system. Special emphasis is placed on how a disease manifests itself in the eye.

Ocular Disease II  54 Hours
Covers the diagnosis and pharmacological management of the ocular adnexa, cornea and external diseases. Clinical rotations emphasize treatment and modalities.

Ocular Disease III  54 Hours
Covers the diagnosis and management of disease processes associated with the crystalline lens and the structures that constitute the posterior segment of the eye.

Ocular Disease IV  54 Hours
Covers the diagnosis and management of disease processes associated with the ocular system in the areas of neuropathology, oncology, and radiology. Clinical rotations emphasize diagnosis and treatment.

Ocular Disease V  54 Hours
Deals with ocular manifestations of specific systemic diseases. It addresses the physician's treatment modalities and effects on the ocular systems. Clinical grand rounds aid in inter-disciplinary management of these problems.

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

Pharmacology
Chairman: Vacancy; Assistant Professor: J. Barakeh; Adjunct Assistant Professor: L. Crespo

Pharmacology I (General Pharmacology)  90 Hours
A thorough grounding in the principles of drug action. The classes of drugs used in clinical practice will be examined in detail, with particular emphasis on structure and activity, mode of action, side effects, toxicity and drug interactions. The pharmacological intervention of pathophysiological processes will be stressed as well as the clinical application of each drug class.

Pharmacology II (Ocular Pharmacology)  36 Hours
A study of the drugs used in the eye or capable of exerting a pharmacological or toxicological effect on the eye.

Physiology
Professor & Chairman: H.J. Lyons; Associate Professor: S. Taraskevitch; Assistant Professor: H. Benghuzzi, C. Woody

Human Physiology/General Physiology  54 Hours
A comprehensive study of human physiology presented with an organ systems approach. Includes the study of general (cell, membrane, muscle and blood) and cardiovascular physiology.
College of Allied Health
Medical centers and industrial and military facilities. PAs have proved to be cost effective, to promote better distribution of health care and to improve access to medical care. Where PAs are employed, waiting periods are reduced, patients receive greater attention, and patient satisfaction is high.

Requirements for Admission

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

Pre-Physician Assistant Studies

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

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

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

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

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

3. All applicants who will not receive a bachelor’s degree prior to the time of matriculation are required to submit official scores from either the Allied Health Professions Admission Test (AHPAT), Scholastic Aptitude Test (SAT), or the American College Test (ACT). (SAT and ACT scores are acceptable only if taken as part of the applicant’s high school sequence. These test scores must be less than five years old.)
The AHPAT is designed to measure general academic ability and scientific knowledge in the areas of biology, chemistry, verbal ability, quantitative ability and reading comprehension. Applicants should schedule pre-physician assistant coursework so that they complete biology, chemistry and algebra courses before taking the AHPAT.

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

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

4. Prior to registration, all accepted applicants must submit proof of current certification in Cardiopulmonary Resuscitation (CPR).

Application Procedure

Candidates for admission must submit:
1. A completed application form along with a $50.00 non-refundable application fee.
2. Three letters of evaluation from individuals, other than a relative, such as academic professors, instructors, health professionals, co-workers, or supervisors.
3. One letter of evaluation must be from a physician assistant.
4. Official AHPAT scores, (SAT or ACT scores, if the applicant does not have a bachelor’s degree at the time of matriculation).
5. Official college transcripts from all undergraduate and graduate institutions attended.
6. Copies of all professional certifications, registrations, licenses or relevant credentialing materials.

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

All application documents should be received by February 15th in order for the applicant to be considered for admission in the summer of the same year. Notice of acceptance or other action by the Committee on Admissions will be on a “rolling” or periodic schedule. Early completion of the application is, therefore, in the best interest of the candidate.

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

Student Housing

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

Tuition and Fees

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

1. Tuition - $8,950 for Florida residents and $9,950 for out-of-state students for the 1993-94 academic year.
2. Acceptance Fee - $100. This fee is required to reserve the accepted applicant’s place in the entering first year class. This advance payment will be deducted from the tuition payment due on Registration Day, but is not refundable in case of a withdrawal. It is payable within two weeks of an applicant’s acceptance.
3. Deposit - $400. This is due February 15, under the same terms as the Acceptance Fee.
4. Pre-registration Fee - $500. This is due April 15, under the same terms as the Acceptance Fee.
5. Student Activities Fee - $100, payable at time of first semester registration.

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

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

Expenses and Financial Aid

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

The purpose of the Student Financial Aid Program at Southeastern University is to help as many qualified students as possible to complete their health professions education. Various loans, scholarships and grants are available to qualified students to help ease the high cost of a health professions education. These assistance programs are described in a separate University publication.
The demands of the PA program limit the number of hours a student can work an outside job. During the twelve months of clinical rotations in the second year, it is difficult or impossible for the student to work.

Course of Study

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

Upon successful completion of this Physician Assistant Program the student will receive a certificate of completion and will be awarded the Bachelor of Science degree. Graduates will be eligible to sit for the National Board Certification Examination administered by the National Commission on Certification of Physician Assistants (NCCPA), upon full accreditation of the P.A. program.

CURRICULUM OUTLINE

First Year, Summer Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Lecture</th>
<th>Laboratory</th>
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<tbody>
<tr>
<td>Anatomy</td>
<td>68</td>
<td>66</td>
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<tr>
<td>Interpretation of Medical Literature</td>
<td>12</td>
<td>0</td>
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<td>The Physician Assistant Profession and Legal Issues</td>
<td>12</td>
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<td>Basic Trauma Life Support</td>
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<td><strong>Credit Hours</strong></td>
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First Year, Fall Semester

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<td>Physiology</td>
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<tr>
<td>Microbiology</td>
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<tr>
<td>Pathology</td>
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<td>Clinical Pathology</td>
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<tr>
<td>Electrocardiography</td>
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<tr>
<td>Introduction to Clinical Medicine</td>
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<tr>
<td>Physical Assessment Skills</td>
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<td>36</td>
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<td>Communication Skills and</td>
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<td>Interviewing Techniques</td>
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<td>Health Care Delivery Systems</td>
<td>18</td>
<td>0</td>
</tr>
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<td>Health Promotion and Disease Prevention</td>
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<tr>
<td><strong>Hours</strong></td>
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First Year, Spring Semester

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<td>Clinical Pharmacology</td>
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<td>Clinical Medicine</td>
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<td>Medical Ethics</td>
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<td>Primary Care in Rural and Underserved Communities</td>
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<td>Psychosocial Issues in Medicine</td>
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<td>Clinical Problem Solving</td>
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<td>Surgical Patient Care and Procedures</td>
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<td><strong>Hours</strong></td>
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Second Year
Clinical Rotations

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<tr>
<td>Internal Medicine</td>
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<td>General Surgery</td>
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<td>Emergency Medicine</td>
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<td>Obstetrics/Gynecology</td>
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<tr>
<td>Pediatrics</td>
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<td>Geriatrics</td>
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<td>Rural Medicine</td>
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<td>Selective</td>
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<td>Total Hours</td>
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ANNOUNCEMENT

The College of Allied Health intends to develop programs in Physical Therapy and Occupational Therapy with a target date of June, 1994. Official licensure and accreditation for those programs will be sought at the appropriate time. This serves as a notice of intent, and not as an official offering.

Physician Assistant Courses
FACULTY ASSIGNMENTS WILL BE ANNOUNCED. TEACHING FACULTY WILL BE DRAWN FROM OUR FULL TIME PHYSICIAN ASSISTANT STAFF AND FACULTY OF THE COLLEGE OF OSTEOPATHIC MEDICINE, COLLEGE OF PHARMACY AND COLLEGE OF OPTOMETRY. THIS WILL BE SUPPLEMENTED BY MEMBERS OF THE CLINICAL AND ADJUNCT FACULTY OF ALL THREE SCHOOLS, AS WELL AS PRACTICING PHYSICIAN ASSISTANTS FROM THE COMMUNITY.

Basic Sciences

Anatomy

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

Clinical Neuroanatomy

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

Microbiology

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

Pathology

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

Pharmacology

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

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

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

Clinical Sciences

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

Communication Skills and Interviewing Techniques
54 Hours lecture, 12 hours laboratory
This course provides instruction and opportunity for PA students to learn and develop essential and effective interviewing and communication skills necessary for the Physician Assistant to perform a competent medical interview and elicit a comprehensive health history. The students will learn to record accurately the medical history and give an oral case presentation in a concise, organized and professional manner. Instructional methods include lecture, class discussions, role playing, video taping and supervised clinical experience.

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

Geriatrics
16 Hours
This course focuses on the comprehensive care of the elderly patient. Emphasis is given on differentiating the normal aging process from pathological changes; identifying common clinical disease entities and disabilities of the elderly; and developing effective planning and medical management of the geriatric patient with multiple chronic problems. Home health care, community agency resources, recreation, nutrition, socioeconomic and social psychological consequences of aging and illness are topics to be included.

Health Care Delivery Systems
18 Hours
An introduction to the structures and administrative principles in health care organizations. The role of the PA in health care delivery system is emphasized. Topics include third party reimbursement, quality assurance, Medicaid/Medicare Programs, home health care, rural health care, National Health Insurance, WIC Programs and community resources.
Health Promotion and Disease Prevention 18 Hours
Through lectures and small group assignments the students will learn health strategies to incorporate in the primary care setting that will promote wellness through preventive interventions and services. Emphasis is on the individual’s responsibility for health and the community’s efforts to protect against disease and environment hazards. Epidemiology, risk factors, screening tests and community resources are identified with each health issue presented.

History and Physical Examination Practicum 72 Hours laboratory
Scheduled clinical hours one day a week provide the PA student supervised contact time with patients in the clinical setting. Using the skills learned in the Communication Skills and Physical Assessment Skills Courses, the students will elicit a comprehensive medical history, perform a complete physical examination and record the pertinent information in the proper format. The completed write-ups are submitted to the PA faculty for critiquing and grading.

Introduction to Clinical Medicine 60 Hours
This course is an introduction to pathophysiology and disease entities through the study of common presenting signs and symptoms.

Medical Terminology 2 Hours
This is a self-study, programmed course with no formal classroom instruction. The students will learn at their own pace to acquire a good medical vocabulary and working knowledge of medical terminology used in the medical profession.

Physical Assessment Skills 36 Hours lecture, 36 Hours laboratory
Detailed instructions are provided in the principles and practice skills required to perform the physical examinations and to interpret the findings and the physical examination. Normal physical findings will be emphasized. Variants of normal and common abnormal physical findings will be introduced. Laboratory sessions will provide supervised small group practicums. At the completion of the course, each student is required to demonstrate proficiency and competency in systematically performing a complete physical examination on an adult patient.

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

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

Behavioral Sciences

Interpretation of Medical Literature 12 Hours
This course provides the Physician Assistant student a working knowledge essential to read critically and to analyze medical and scientific publications and to judge their relevance to clinical use. Small group assignments of practical application are included. Instructions will be given on the effective use of the medical library.

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

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

The Physician Assistant Profession and Legal Issues 12 Hours
This course is designed to address current issues in the PA profession, its past, present and future and the unique role of PAs within the health care system. Through lectures and panel discussions, the student will gain practical insight to risk management, political and legal issues and how the law is applied to medical practice and malpractice. The students will be introduced to the national and state PA organizations, Florida statutes and regulations, and current legislative issues in Florida.
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>University/Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linh P. Barclay</td>
<td>Assistant Professor of Pharmacy Practice</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Frank C. Barone</td>
<td>Assistant Professor of Osteopathic Manipulative Medicine</td>
<td>University of Buffalo, Philadelphia College of Osteopathic Medicine</td>
</tr>
<tr>
<td>Charles C. Barton</td>
<td>Clinical Associate Professor of Psychiatry</td>
<td>American University, Meharry Medical College</td>
</tr>
<tr>
<td>Edward Becker</td>
<td>Clinical Instructor in Surgery</td>
<td>University of Central Del Este San Pedro</td>
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<tr>
<td>Jeffrey S. Beitler</td>
<td>Clinical Assistant Professor of Surgery</td>
<td>Bowman Gray College of Medicine</td>
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<tr>
<td>Michael Belotti</td>
<td>Clinical Instructor in Family Medicine</td>
<td>Allegheny College, University of Dayton, University of Dayton</td>
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<tr>
<td>Robert L. Bentz</td>
<td>Clinical Assistant Professor of Ophthalmology</td>
<td>University of Notre Dame, Philadelphia College of Osteopathic Medicine</td>
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<tr>
<td>Richard Berger</td>
<td>Visiting Professor of Internal Medicine</td>
<td>Tulane University</td>
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<tr>
<td>Manuel Bergman</td>
<td>Instructor in Optometric Practice</td>
<td>Spardus College, Illinois College of Optometry</td>
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<tr>
<td>Donald C. Bergmann</td>
<td>Professor Emeritus of Pathology</td>
<td>Baldwin-Wallace College, Kirksville College of Osteopathic Medicine, Fellow, American College of Emergency Physicians</td>
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<tr>
<td>Andrew Bern</td>
<td>Clinical Instructor in Emergency Medicine</td>
<td>S.U.N.Y. at Stony Brook, Downstate Medical Center S.U.N.Y.</td>
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<tr>
<td>Eulogio Besada</td>
<td>Assistant Professor of Optometry</td>
<td>University of Puerto Rico, University of Houston, University of Houston</td>
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<td>Satish Bhalla</td>
<td>Professor of Family Medicine</td>
<td>Panjab University, India</td>
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<td>Joseph F. Barakeh</td>
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<td>Daniel R. Barkus</td>
<td>Professor of Obstetrics and Gynecology</td>
<td>Philadelphia College of Osteopathic Medicine, Fellow, American College of Osteopathic Obstetricians and Gynecologists</td>
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<td>Richard B. Antosik</td>
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<td>Lee Adler</td>
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<td>Graciela M. Armayor</td>
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<td>Dean L. Arneson</td>
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<td>Harold Baftia</td>
<td>Clinical Instructor in Surgery</td>
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<td>D.O.</td>
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<td>Ph.D.</td>
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<th>Name</th>
<th>Degree(s)</th>
<th>Institution</th>
<th>Position</th>
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<td>Thomas Chaille</td>
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<td>Louis Chaykin</td>
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<td>Gerald R. Conover</td>
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<td>Rachel Anastasia Coulter</td>
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<td>Paul E. Dermer</td>
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</table>
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D.O. - 1958 - Philadelphia College of Osteopathic Medicine  
Fellow, American College of Osteopathic Internists  

Maxwell Greenhouse  
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B.A. - 1939 - Webster University  
D.O. - 1939 - University of Osteopathic Medicine and Health Sciences  
M.S. - 1943 - Kansas University  
D.P.H. - 1943 - Kansas University  

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Clinical Assistant Professor of Surgery  
B.S. - 1945 - Temple University  
D.S.C. - 1949 - Temple University  
B.S. - 1950 - Philadelphia College of Pharmacy and Science  
D.O. - 1954 - Philadelphia College of Osteopathic Medicine  
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M.D. - 1957 - University of Amsterdam (Holland)  
Fellow, American Academy of Otorhinolaryngology and Ophthalmology  
Fellow, American College of Surgeons  
Fellow, American Academy of Facial Plastic and Reconstructive Surgery  
Fellow, American Society of Head and Neck Surgery  

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D.O. - 1981 - New York College of Osteopathic Medicine  

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Duff L. Gula  
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Ph.D. - 1981 - University of Houston  

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D.O. - 1968 - University of Osteopathic Medicine and Health Sciences  

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M.S. - 1959 - University of Wyoming  
Ph.D. - 1973 - University of Arizona  

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D.O. - 1968 - Chicago College of Osteopathic Medicine  

Ralph E. Hathaway  
Clinical Assistant Professor of Family Medicine  
B.A. - 1964 - University of Health Sciences College of Osteopathic Medicine  

FACULTY MEMBERS
### FACULTY MEMBERS

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree(s)</th>
<th>Institution</th>
<th>Field</th>
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<tbody>
<tr>
<td>Daniel Hauser</td>
<td>B.A. 1970, M.D. 1978</td>
<td>Tulane University</td>
<td>Clinical Instructor in Emergency Medicine</td>
</tr>
<tr>
<td>Anna Hayden</td>
<td>B.S. 1983, D.O. 1988</td>
<td>Seton Hall University</td>
<td>Assistant Professor of Community Medicine</td>
</tr>
<tr>
<td>Shirley M. Haynes</td>
<td>B.S. 1975, D.O. 1978</td>
<td>Tulsa University</td>
<td>Clinical Associate Professor of Pediatrics</td>
</tr>
<tr>
<td>Frederico Herrera</td>
<td>M.D. 1947</td>
<td>University of Havana School of Medicine</td>
<td>Clinical Assistant Professor of Family Medicine</td>
</tr>
<tr>
<td>Edward D. Hersh</td>
<td>D.O. 1940</td>
<td>Kirksville College of Osteopathic Medicine</td>
<td>Professor Emeritus of Ophthalmology</td>
</tr>
<tr>
<td>A. Curtis Higginbotham</td>
<td>B.S. 1935, Ph.D. 1939</td>
<td>Northwestern University</td>
<td>Professor Emeritus of Anatomy</td>
</tr>
<tr>
<td>Frances Higginbotham</td>
<td>A.B. 1962, M.S. 1964, Ph.D. 1966</td>
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<td>Professor Emeritus of Anatomy</td>
</tr>
<tr>
<td>Bruce Hindin</td>
<td>B.S. 1976, D.O. 1980</td>
<td>University of Illinois, Chicago College of Osteopathic Medicine</td>
<td>Clinical Instructor in Anesthesiology</td>
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<tr>
<td>Kirtland E. Hobler</td>
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<td>Robert A. Hoffberger</td>
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<td>Steven E. Holbrook</td>
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<tr>
<td>Kirby Hotchner</td>
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<td>James G. Hull</td>
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<td>Howard M. Israel</td>
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<td>Jeffrey I. Jackerson</td>
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<td>Marvin Jaffee</td>
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<tr>
<td>Deanna R. James</td>
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Ph.D. - 1977 - Oklahoma State University

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<table>
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<tr>
<th>Faculty Members</th>
<th>Clinical Associate Professor of Pediatrics</th>
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<tbody>
<tr>
<td>Max Marcus</td>
<td>B.A. - 1942 - Brooklyn College</td>
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<td></td>
<td>D.O. - 1945 - Philadelphia College of Osteopathic Medicine</td>
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<tr>
<td>Elias J. Margareten</td>
<td>B.S. - 1933 - University of Rochester</td>
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<td>M.S. - 1953 - Columbia University</td>
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<td>Fellow, American Academy of Optometry</td>
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<tr>
<td>Michael E. Margareten</td>
<td>B.S. - 1959 - Pennsylvania State College of Optometry</td>
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<td>O.D. - 1961 - Pennsylvania State College of Optometry</td>
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<td>Fellow, New York Academy of Science</td>
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<tr>
<th>Faculty Members</th>
<th>Professor Emeritus of Optometry</th>
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<tr>
<td>Andrew T. Mariassey</td>
<td>B.S. - 1969 - University of California, Davis</td>
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<td>M.S. - 1972 - University of California, Davis</td>
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<td></td>
<td>Ph.D. - 1980 - University of California, Davis</td>
</tr>
<tr>
<td>Elsa J. Marsh</td>
<td>B.S. - 1963 - St. Mary-of-the-Woods College</td>
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<tr>
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<td>D.O. - 1971 - Chicago College of Osteopathic Medicine</td>
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<tr>
<td></td>
<td>Fellow, American College of Osteopathic Physicians</td>
</tr>
<tr>
<td>Donald McBeth</td>
<td>B.A. - 1957 - University of Florida</td>
</tr>
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<td></td>
<td>D.O. - 1969 - University of Health Sciences College of Osteopathic Medicine</td>
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<tr>
<td>Malcolm H. McDonald</td>
<td>B.S. - 1965 - Michigan State University</td>
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<td>D.O. - 1969 - Chicago College of Osteopathic Medicine</td>
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<tr>
<td>William Howard McGill</td>
<td>B.A. - 1976 - Brown University</td>
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<td>D.O. - 1981 - Meharry Medical College</td>
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<tr>
<td>Martha McKay</td>
<td>O.D. - 1983 - Pacific University College of Optometry</td>
</tr>
<tr>
<td></td>
<td>Associate Professor of Optometric Practice</td>
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<tr>
<td>Archie McLean</td>
<td>A.B. - 1977 - Bowdoin College</td>
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<td></td>
<td>M.P.H. - 1978 - University of South Carolina</td>
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<tr>
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<td>D.O. - 1988 - Southeastern University College of Osteopathic Medicine</td>
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<tr>
<td>Arnold Melnick</td>
<td>A.B. - 1941 - Temple University</td>
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<td></td>
<td>D.O. - 1945 - Philadelphia College of Osteopathic Medicine</td>
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<td>M.A. - 1948 - Temple University</td>
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<td></td>
<td>M.Sc. - 1953 - Philadelphia College of Osteopathic Medicine</td>
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<tr>
<td></td>
<td>Fellow, American College of Osteopathic Pediatrics</td>
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<td></td>
<td>Fellow, American College of Osteopathic Obstetricians and Gynecologists</td>
</tr>
</tbody>
</table>
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<td>Dwight Reynolds</td>
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D.O. - 1971 - Kirksville College of Osteopathic Medicine  
Fellow, International Council of Sex Education and Parenthood
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<td>Dennis M. Spiller</td>
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<td>Hai Sussman</td>
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<td>B. Boyce Swartz</td>
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<td>Scott A. Swigart</td>
<td>B.S. 1979</td>
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<td>Pharm.D. 1982</td>
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<td>P. Stephen Tarasevich</td>
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<td>Associate Professor of Physiology</td>
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<td>Stanley Tenenbaum</td>
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<td>Matthew A. Terry</td>
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