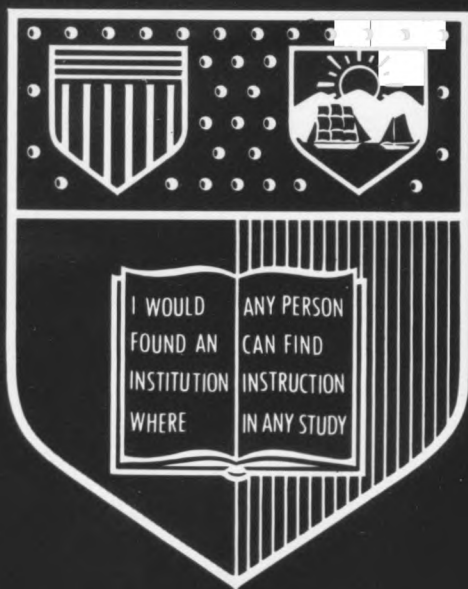
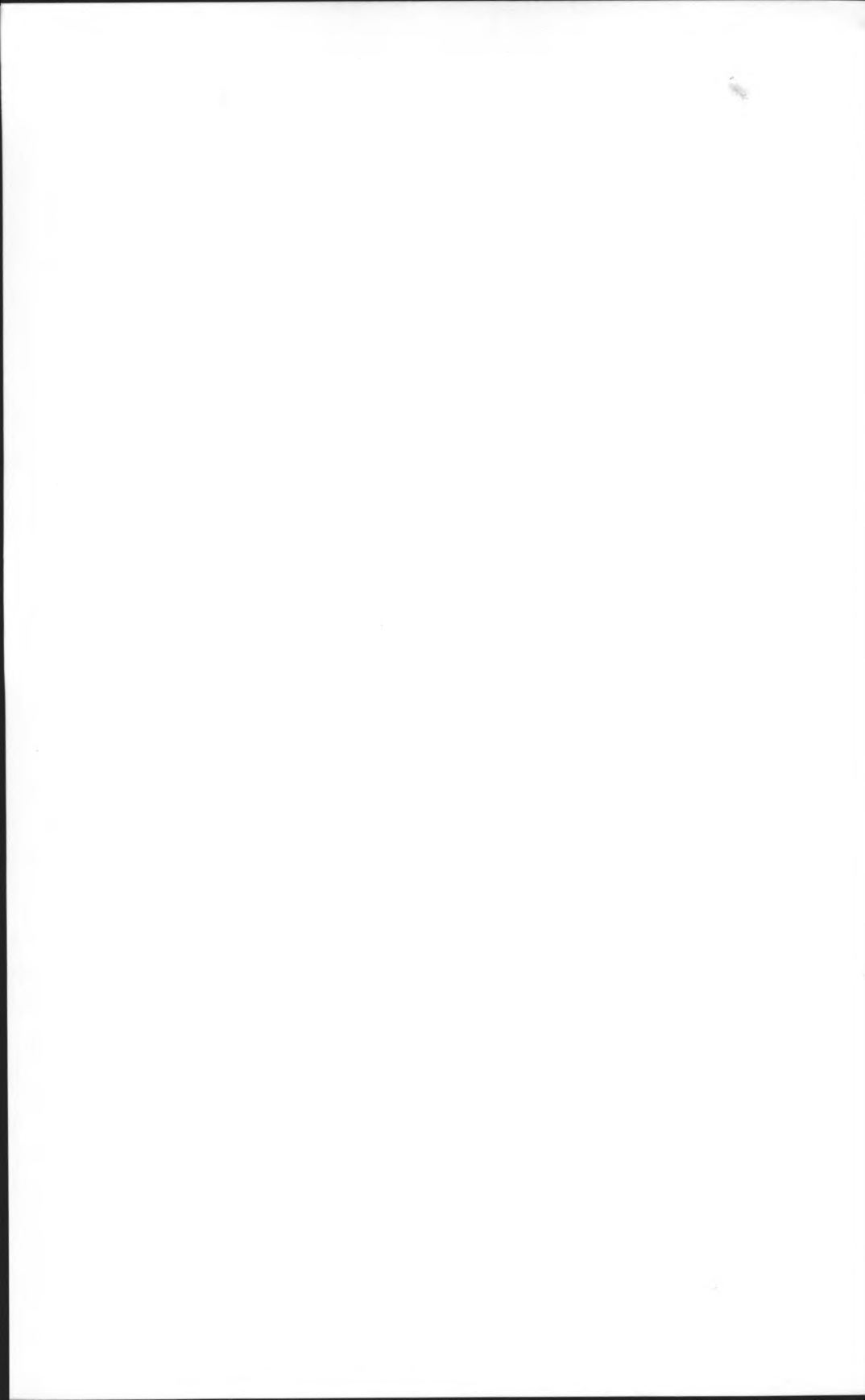


Cornell
University
Announcements



Medical
College



Cornell University

**Medical College
1300 York Avenue
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1977-78

Cornell University Announcements

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The provisions of this publication are not to be regarded as an irrevocable contract between the student and Cornell University Medical College. The University reserves the right to change any provision or requirement at any time.

1977-78

Medical College Calendar

First Year

1977

Monday, September 5
Tuesday, September 6-Wednesday, September 7

Wednesday, September 7
Thursday, September 8
Wednesday, November 16
Thursday, November 17-Wednesday, November 23
Thursday, November 24-Friday, November 25
Monday, November 28
Friday, December 16

Labor Day
Registration and Orientation; opening
exercises, 3 p.m.
Registration and orientation
Instruction begins, 9 a.m.
First trimester ends, 5 p.m.
Examinations
Thanksgiving Holiday
Second trimester begins, 9 a.m.
Christmas recess begins, 5 p.m.

1978

Monday, January 2
Monday, February 20
Friday, February 24
Monday, February 27-Friday, March 10
Monday, March 13
Saturday, April 8-Sunday, April 16
Monday, April 17
Monday, May 29
Friday, June 2
Monday, June 5-Friday, June 9

Christmas recess ends, instruction begins, 9 a.m.
Washington's Birthday
Second trimester ends, 5 p.m.
Examinations
Third trimester begins, 9 a.m.
Spring Recess
Instruction resumes, 9 a.m.
Memorial Day
Instruction ends, 5 p.m.
Examinations

Second Year

1977

Monday, September 5
Tuesday, September 6–Wednesday, September 7
Wednesday, September 7
Thursday, September 8
Wednesday, November 16
Thursday, November 17–Wednesday, November 23
Thursday, November 24–Friday, November 25
Monday, November 28
Friday, December 16

Labor Day
Registration; opening exercises, 3 p.m.
Registration
Instruction begins, 9 a.m.
First trimester ends, 5 p.m.
Examinations
Thanksgiving Holiday
Second trimester begins, 9 a.m.
Christmas recess begins, 5 p.m.

1978

Monday, January 2
Monday, February 20
Wednesday, February 22
Thursday, February 23–Friday, March 3
Saturday, March 4–Sunday, March 12
Monday, March 13
Friday, May 26
Monday, May 29
Tuesday, May 30–Friday, June 2

Christmas recess ends, instruction begins, 9 a.m.
Washington's Birthday
Second trimester ends, 5 p.m.
Examinations
Spring Recess
Third trimester begins, 9 a.m.
Memorial Day
Instruction ends, 5 p.m.
Examinations

Third Year

1977

Monday, September 5
Tuesday, September 6

Monday, October 24
Monday, November 21
Thursday, November 24
Saturday, December 17

Labor Day
Registration, instruction begins, 9 a.m.; opening exercises, 3 p.m.
First rotation, sections II C, D, and E
First rotation, sections I A & B
Thanksgiving Holiday
Christmas recess begins, 1 p.m.

1978

Monday, January 2
Monday, February 20
Tuesday, February 21
Saturday, April 8–Sunday, April 16
Monday, April 17
Monday, May 15
Monday, May 29
Monday, June 12
Tuesday, July 4
Friday, July 28

Second rotation, sections II C, D, and E
Washington's Birthday
Midyear rotation of all sections
Spring recess begins, 1 p.m.
First rotation, sections I C, D, and E
First rotation, sections II A & B
Memorial Day
Second rotation, sections I C, D, and E
Independence Day
Instruction ends

Third Year Rotations

Sept. 6		Nov. 21		Dec. 17		Feb. 21	
I A	Medicine			Sur			Surgery
I B	Surgery			Med			Medicine
II C	Obstetrics		Pediatrics		Neurology, Psychiatry, Public Health		
II D	Pediatrics		Neurology, Psychiatry, Public Health		Obstetrics		
II E	Neurology, Psychiatry, Public Health		Obstetrics		Pediatrics		
Sept. 6		Oct. 24		Jan. 2		Feb. 21	

CHRISTMAS RECESS

Feb. 21		Apr. 8		June 12		July 28
I C	Obstetrics	SPRING RECESS		Pediatrics		Neurology, Psychiatry, Public Health
I D	Pediatrics			Neurology, Psychiatry, Public Health		Obstetrics
I E	Neurology, Psychiatry, Public Health			Obstetrics		Pediatrics
II A	Medicine			Med	Surgery	
II B	Surgery			Sur	Medicine	
Feb. 21		Apr. 17		May 15	July 28	

SPRING RECESS

Fourth Year

1977

Monday, September 5	Labor Day
Tuesday, September 6	Registration; opening exercises, 3 p.m.
Thursday, November 24	Thanksgiving Holiday
Saturday, December 17	Christmas recess begins

1978

Monday, January 2	Christmas recess ends
Monday, February 20	Washington's Birthday
Friday, May 19	Instruction ends
Wednesday, May 24	Commencement, 3 p.m.

Elective Modules

Module A	September 6-October 7
Module B	October 10-November 11
Module C	November 14-December 16
Module D	January 2-February 3
Module E	February 6-March 10
Module F	March 13-April 14
Module G	April 17-May 19

In enacting this calendar, the Medical College has scheduled classes on religious holidays. It is the intent of the College that students missing classes due to the observance of religious holidays be given ample opportunity to make up work.



Cornell University

The Medical College

Purpose and History

Cornell University Medical College has as its aim excellence in its students who are chosen for admission with the expectation that they will be leaders in the field of medicine. It encourages research and the advancement of medical knowledge not only as an end in itself but also because science is the most important underpinning of the broad knowledge that a medical student must obtain in preparation for further graduate study. To the end that students may become leaders, Cornell strives to stimulate creativity and foster independent thought and study. That they may develop a sense of social commitment, it attempts to expose students to real-life responsibilities in a variety of practice settings, always with attention to the optimal care of patients.

Cornell University Medical College was established on April 14, 1898, by the Board of Trustees of Cornell University. Although the University, which had been founded in 1865, was situated in Ithaca, New York, the Medical College was established in New York City in order to take advantage of the clinical teaching opportunities available in a large metropolitan area. The original faculty was composed of a group of distinguished professors who previously had operated a teaching institution known as the Medical College Laboratory. The Laboratory was at one time affiliated with the medical department of New York University.

The Trustees of Cornell University had wanted to form a medical education unit at various times since the founding of the University and, in 1898, the generous gifts of Colonel Oliver H. Payne made possible the establishment of the Medical College. Colonel Payne, who provided funds for the support of the College for several years, later created a permanent endowment by donating a gift of more than \$4 million to the College.

The first dean of the Medical College was Dr. William Mecklenburg Polk. Among the early

faculty members were such renowned scientists as Dr. Lewis A. Stimson, professor of surgery; Dr. James Ewing, professor of pathology, and Dr. Graham Lusk, professor of physiology. The College has been well known from the time of its establishment for a faculty composed of persons distinguished both as scientific investigators and as teachers.

In 1900, the College occupied its first permanent headquarters at Twenty-eighth Street and First Avenue. In 1927, the College entered into its first formal affiliation with The New York Hospital. The College was one of the first in the country to admit women as well as men. It was also one of the first to require a degree from an undergraduate college as a standard for admission.

The Medical College moved to its present location in 1932, which marked the opening of The New York Hospital-Cornell Medical Center.

Facilities for Instruction

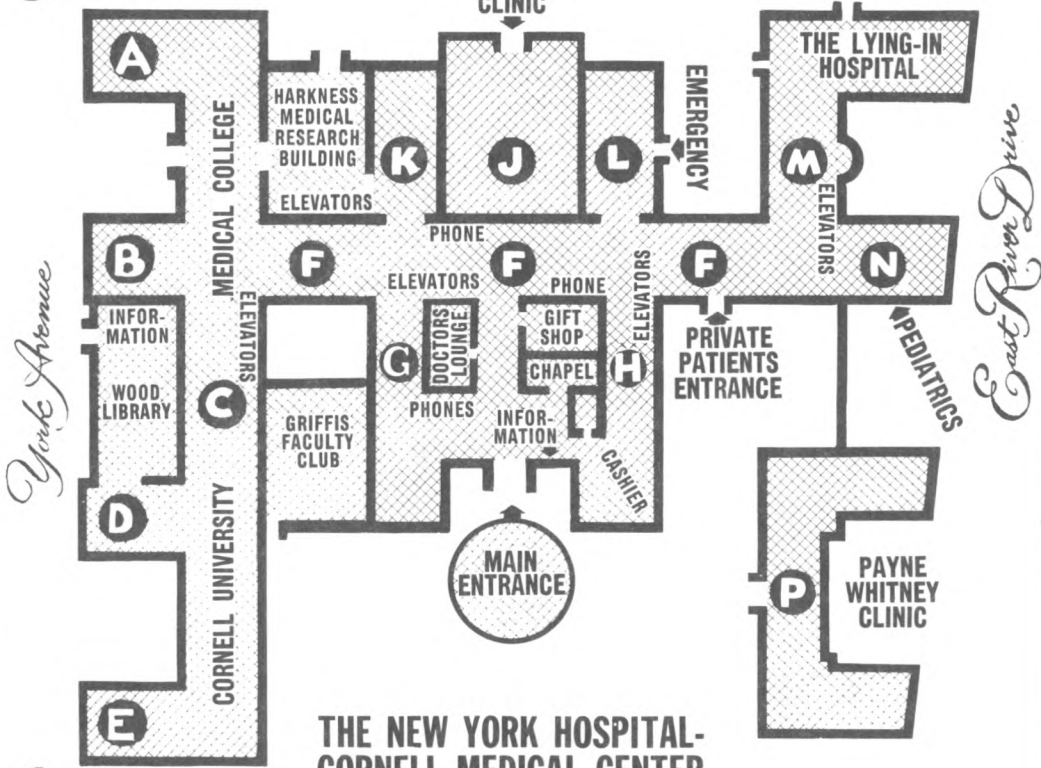
The Medical College

Instruction in the medical sciences is conducted in a series of joined buildings along York Avenue from Sixty-eighth to Seventieth Streets. The entrance to the Medical College, at 1300 York Avenue, is in the Samuel J. Wood Library and Research Building. The main reading room, the catalog and reference sections, and the area for the current journals of the library are on the first floor of this building. The B and D areas of the Medical College adjoin the Wood Building on the north and south sides. Additional research and teaching facilities, as well as the central animal care laboratories, are located between the A and B buildings in the new William Hale Harkness Medical Research Building. The upper floors of the central portion of the Medical College house the Departments of Microbiology,

East 71st Street



East 70th Street



East 68th Street

THE NEW YORK HOSPITAL-
CORNELL MEDICAL CENTER

Pathology, Physiology and Biophysics, and Public Health, along with the research laboratories for several of the clinical departments.

The Department of Anatomy is in the building at Seventieth Street (Area A), and the building at the Sixty-eighth Street end of the college (Area E) houses the Departments of Biochemistry and Pharmacology. The central buildings of the College are joined to the main hospital buildings on each of the seven floors. The college auditorium, the student laboratories and lecture rooms for the basic science departments, and the extensive research facilities for staff and students are also housed in the buildings along York Avenue.

Graduate School of Medical Sciences

The Graduate School of Medical Sciences, one of the three academic units on Cornell's New York City campus, was organized in 1952 as a semiautonomous component of the Graduate School of Cornell University and is responsible for administering all advanced general degrees granted for study in residence on the New York City campus. The School is composed of two divisions: the Medical College Division, consisting of faculty members principally from the basic science departments of the Cornell University Medical College, and the Sloan Kettering Division, consisting of staff members from the Sloan-Kettering Institute for Cancer Research.

The Graduate School of Medical Sciences currently offers graduate programs leading to the M.S. and Ph.D. degrees in eleven biomedical fields: biochemistry, biological structure and cell biology, biology, biostatistics, biophysics, genetics, microbiology, neurobiology and behavior, pathology, pharmacology, and physiology. These programs are designed for students interested in careers in teaching and research in the various basic biomedical sciences.

All of the facilities of the Cornell University Medical College and the Sloan-Kettering Institute for Cancer Research are available to graduate students. Such facilities include, in addition to well-equipped classrooms and libraries, unexcelled modern laboratories and equipment for research. For further details, refer to the *Announcement of the Graduate School of Medical Sciences*.

The New York Hospital

Clinical instruction is given in the eleven separate departments forming The New York Hospital. The Medical and Surgical Departments occupy the central hospital building, the Women's Clinic (Lying-in Hospital), the Pediatric Department, and the Psychiatric Department (Payne Whitney Clinic) extend from north to south, overlooking the East River.

Each clinic contains facilities for bed patients, an outpatient department, lecture rooms, and laboratories for clinical study and research. Special provision has also been made for student laboratory work. The Department of Medicine occupies the second to fourth floors of the central hospital building with semiprivate areas for bed patients and three floors for the outpatient department. There are extensive laboratories for chemical, physiological, and biological research. The Department of Surgery utilizes the fifth to the ninth floors for semiprivate beds and outpatient services as well as facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above these are six floors containing 128 rooms for private patients. Living quarters for the resident staff are in the new house-staff residence across York Avenue. The entire hospital has a capacity of approximately 1,350 beds. The Westchester Division in White Plains, New York, contains an additional 281 beds. This Division, together with the Payne Whitney Clinic, forms the Department of Psychiatry of The New York Hospital-Cornell Medical Center.

The chairman of each department is responsible for the care of patients and the conduct of professional services in the hospital. The chairman is also the professor in charge of the corresponding department in the Medical College. Every clinical department is staffed by a corps of salaried faculty members, including the chairman, who devote their full time to the service of the College and the hospital. Other members of the faculty devote part of their time to private practice.

The Hospital for Special Surgery

The Hospital for Special Surgery, maintained by The New York Society for the Relief of the Ruptured and Crippled, was founded in 1863 as the first institution in the United States for the treatment of orthopedic conditions. It affiliated with The New York Hospital-Cornell Medical Center in 1949 and moved to its present location at 535 East Seventieth Street in 1955. The hospital consists of a modern facility containing 204 beds, caring for some 3,500 inpatients a year and 11,000 outpatients in nineteen subspecialty clinics. Twenty-four residents are trained in a three-year program in orthopedic surgery with an elective fourth year. The hospital maintains a school for the training of practical nurses.

The Philip D. Wilson Research Foundation was opened in 1960 to investigate the causes, prevention, and improvement in the treatment of orthopedic and rheumatic diseases.

The Hospital for Special Surgery provides the orthopedic and rheumatic diseases services for The New York Hospital-Cornell Medical Center.

The Burke Rehabilitation Center

The Burke Rehabilitation Center, 785 Mamoroneck Avenue, White Plains, New York, was founded in April, 1915, by John Masterson Burke as a tribute to the memory of his mother, Winifred Masterson Burke. On March 14, 1968, the Burke Center became affiliated with The New York Hospital-Cornell Medical Center.

A 150-bed rehabilitation center accredited by the Joint Commission on Accreditation of Hospitals, the Burke Rehabilitation Center offers a multidisciplinary approach to the rehabilitation phase of total medical care. Since the primary objective of its program is the integration of the disabled patient into the community as a responsible individual functioning at maximum potential, the center offers its diagnostic, evaluative, and treatment services to those of all ages who have need for medical rehabilitative care.

The comprehensive program includes: services of physicians trained in rehabilitation and all other medical specialties, nursing care, nutritional research and therapy, occupational therapy, physical therapy, speech and hearing services, psychological and psychiatric services, social services, and vocational evaluation and training.

Among the research and study programs being conducted at the Burke Rehabilitation Center are: a demonstration research program in nutrition and metabolic disease, a stroke research study, a Parkinsonism research study, a cardiopulmonary study, and sociomedical studies.

Manhattan Eye, Ear, and Throat Hospital

One of the world's principal centers for the diagnosis and treatment of disorders of sight, hearing, and speech, Manhattan Eye, Ear, and Throat Hospital became affiliated with Cornell University and The New York Hospital in 1968. In addition to its programs of patient care and treatment, this hospital now serves as Cornell University Medical College's teaching facility in ophthalmology and otorhinolaryngology and as a patient referral center for those specialties. Medical teaching is under the direction of the Medical College which, along with The New York Hospital, provides a wide range of consultative and other services not ordinarily available in a specialty hospital.

Memorial Sloan-Kettering Cancer Center

Memorial Hospital is the clinical unit of the Memorial Sloan-Kettering Cancer Center. The Sloan-Kettering Institute for Cancer Research is the research unit.

In the terms of the Douglas Deeds of Trust set up by the late Dr. James Douglas, who

provided the hospital with an endowment for the study and treatment of cancer and allied diseases, Memorial Hospital became affiliated with the Cornell University Medical College in 1914. The agreement between Memorial Hospital and the College requires that the professional staff of the hospital be named by the Council of the Medical College, subject to the approval of the Board of Managers of the Hospital. The facilities of Memorial Hospital offer unusual opportunities for instruction in the pathology, diagnosis, and treatment of neoplastic diseases. Memorial Hospital, which includes the James Ewing Pavilion, has 600 beds.

Sloan-Kettering Institute, founded in 1945, brought a major research establishment into this large and active cancer treatment center.

North Shore University Hospital

North Shore University Hospital is a 450-bed, general care, voluntary institution in Manhasset, Long Island, serving heavily populated portions of Nassau, Suffolk, and Queens Counties. It became formally affiliated with Cornell University Medical College in 1969.

All members of the medical staff of North Shore University Hospital are appointed to the faculty of the Medical College and participate in its teaching programs. In addition, each clinical service has a staff of full-time faculty members involved in research, teaching, and clinical activities. Through outpatient and educational services, emergency facilities and outreach clinics, North Shore University Hospital's community-oriented program provides an important experience for students in the Medical College. Opportunities for clinical instruction are provided in medicine, neurology, surgery, pediatrics, pathology, psychiatry, radiology, and obstetrics-gynecology at the second-, third-, and fourth-year student levels. Since 1967, joint programs of internship, residency, and fellowship training have been offered in conjunction with The New York Hospital and Memorial Sloan-Kettering Cancer Center.

The Loomis Laboratory

The original Loomis Laboratory, which was founded in 1886 at 414 East Twenty-sixth Street, provided research and teaching facilities for Cornell faculty members before the Medical College was moved to its present location. A teaching laboratory in the Department of Pathology is named the Loomis Laboratory in recognition of the earlier institution.

The Russell Sage Institute of Pathology

The Russell Sage Institute of Pathology has been associated with the Medical College since 1913 and was incorporated into The New York

Hospital in 1932. The institute supports work in metabolism and human genetics that is conducted by members of the Departments of Medicine and Physiology. The medical director of the Institute is Dr. Alexander G. Bearn, professor of medicine.

Libraries

Samuel J. Wood Library

The main library of the Medical College is located on the first floor of the Samuel J. Wood Library and Research Building, to the right of the 1300 York Avenue entrance at Sixty-ninth Street.

Fifteen hundred current journals are received and the total collection has reached more than 100,000 volumes. Participation in communication and library networks enables the library to produce needed items quickly.

The library is equipped with a communications terminal linked to a computer to provide searches of the medical literature. The information and reference department receives requests for these searches. Typing and duplicating services and, most importantly, a staff willing to help, are also available.

The library is open during the week from 8:45 a.m. until 11:00 p.m., on Saturdays from 9:00 a.m. until 5:00 p.m., and on Sundays from 1:00 p.m. until 11:00 p.m. The library is closed on Christmas and New Year's Day and the other holidays noted in the calendar, pp. 4-5.

Department Libraries

Several departments also have libraries housing journals and books pertaining to specific areas. These collections, photocopies of materials from other libraries, including the National Library of Medicine and all major medical and academic libraries in the United States, supplement the holdings of the main library.

The Oskar Diethelm Historical Library

Begun in 1936, the Oskar Diethelm Historical Library has grown to be an excellent collection of nearly 10,000 original works published before 1920 relating to the history of psychiatry and allied subjects. Together with a modern reference collection, the library serves as the center of research and training activities of the section on the history of psychiatry and the behavioral sciences in the Department of Psychiatry.

Admissions

Requirements

In defining the qualifications for admission, the faculty of Cornell University Medical College

attaches particular importance to the liberal and general education implied by the acquisition of a college degree. Although most applicants to the Medical College will have completed four years of college, possession of an undergraduate degree is not a requirement of candidates for the degree of Doctor of Medicine from Cornell University. Applications will be seriously and carefully considered from students who will have completed only three years of undergraduate work and whose personal, educational, and social maturation seems to warrant earlier admission to the study of medicine. Some of these applicants may be able to satisfy the requirements for a baccalaureate degree in their colleges by successfully completing the first year of medical school.

The basic premedical requirements that all students must fulfill in order to qualify for admission to the study of medicine in New York State are published in the Regulations of the Commissioner of Education. In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least six semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry. Although these requirements form the basis of eligibility for admission to the medical course, they should be considered as representing an irreducible minimum.

A sound preparation in biology, chemistry, and physics is essential for a student planning to study medicine, and course work in the behavioral sciences is becoming increasingly important. A student not majoring in one of the sciences should realize that a thorough basic training in the concepts and methods of science can only be acquired through rigorous laboratory experience. A science major, on the other hand, should not overlook the broad educational value of study in the humanities and social sciences. In planning premedical work, students are advised to elect subjects that will lay a broad foundation for medical study rather than to anticipate courses required in the medical curriculum.

Selection

Each year the Committee on Admissions of Cornell University Medical College selects a class of about one hundred students from over 6,500 applicants. In doing so, the committee's goal is to accept students who they feel are best prepared to provide future leadership in the field of medicine. Selection of students is influenced by the type of undergraduate preparation and demonstrated academic accomplishment. Also important are motivation and other personal characteristics such as maturity and stability of the individual. Cornell attempts

to maintain a heterogeneous student body by selecting well-qualified students from diverse geographic, academic, and racial backgrounds. The number of students from any one college, region, race, or sex may thus vary from year to year. Well-motivated students from particularly adverse economic or social backgrounds who have had substandard educational opportunities are also admitted.

It is the policy of Cornell University actively to support equality of educational opportunity. No student shall be denied admission to the University or be discriminated against otherwise because of race, color, creed, religion, national or ethnic origin, or sex.

The University does not discriminate against qualified handicapped persons in its admissions or recruitment activities.

All policies regarding admissions, employment, and educational programs and activities are established and administered in conformity with the Education Practices Act of New York as well as state and federal civil rights laws, specifically including Title IX of the Education Amendments Act of 1972, and regulations thereunder, prohibiting practices or policies in admissions, educational programs, or employment which are in any way discriminatory on the basis of sex.

Application

Application to Cornell University Medical College can be made only through the American Medical College Application Service (AMCAS) application process: American Medical College Application Service, Suite 301, 1776 Massachusetts Avenue, N. W., Washington, D. C. 20036. AMCAS is the sole distributor of application forms and instructions. These are obtained by forwarding an application request card to AMCAS. Request cards are available from premedical advisers and from medical schools. Upon receipt of the AMCAS application by Cornell, additional information will be requested and instructions will be given about submission of letters of evaluation. The evaluation of a premedical advisory committee is preferred. If this is not available, two letters of evaluation from members of the undergraduate science faculty of the applicant's college, well acquainted with the student, may be substituted. After receipt of the supplementary information, the letters of evaluation, and the \$25 application fee, the Committee on Admissions will review carefully the completed application and will select students for personal interviews. The fee can be waived for financial reasons for those applicants who are eligible for AMCAS fee waivers.

From among the large number of applicants, the committee selects for a personal inter-

view those students under serious consideration. Only rarely are students accepted by the Medical College without a personal interview.

The Committee on Admissions does not require an applicant to take the Medical College Admission Test (MCAT) but will review the scores if the examination has been taken.

The committee will notify accepted applicants of its decisions after February 1. If the committee takes favorable action, a letter of acceptance is forwarded to the applicant who has two weeks to: (1) hold a place in the class in order to make a final decision at a later date, but not later than March 1, or (2) accept a place in the class by sending a deposit of \$100. This deposit is deductible from the first tuition payment.

Advanced Standing

When vacancies occur, students may be admitted with advanced standing. Only those students who have completed and passed examinations in their basic science course work as matriculated medical students in an accredited medical school are eligible to apply for transfer to Cornell University Medical College. Applications for a place in the second- or third-year class may be obtained from the Office of Admissions, 411 East Sixty-ninth Street, New York, New York 10021.

Applicants who are accepted are required to make a deposit of \$100 which is deductible from the first tuition payment. Candidates seeking admission with advanced standing must furnish evidence of having completed satisfactorily, in an approved medical school, all of the work required of students in the class that they wish to enter. Applicants must also have sent to us two letters of evaluation from their medical school faculty, as well as a certificate of good academic standing from the medical school, or schools, they attended. In addition, these candidates must have fulfilled the conditions for admission to the first-year class at Cornell University Medical College. They may be required to take examinations in any of the medical courses taken in another school.

Additional information about the Medical College is contained in the booklet, *Information for the Applicant—1977*, which may be obtained from the Office of Admissions.

Special Students

Special students are those students who are permitted to take courses at the Medical College or Graduate School of Medical Sciences, but who are not degree candidates in either school. Generally, special students must be degree candidates at other institutions and the courses taken at Cornell must be essential to their degree pro-

gram, as certified by the institutions at which they are candidates. Enrollment as a special student is not intended as preparation for admission to degree programs at Cornell or elsewhere.

Special students are accepted only with the approval of the head of the department in which they will study and must demonstrate special qualifications in terms of preparation and ability. They must register with the appropriate student affairs office and pay all tuition and fees before being permitted to attend classes or laboratories. There is a registration fee of \$10 and an administration fee of \$5. Tuition may vary, but is generally computed on the basis of the ratio of course hours taken to regular hours of instruction for the entire year.

Educational Policies and Plan of Instruction

The Medical College is divided into seventeen departments. Seven of the departments are concerned primarily with the sciences underlying clinical medicine; they are the Departments of Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, Physiology and Biophysics, and Public Health. Ten departments have as their major function the study, treatment, and prevention of human diseases, and maternity care; they are the Departments of Anesthesiology, Medicine, Neurology, Obstetrics and Gynecology, Ophthalmology, Otorhinolaryngology, Pediatrics, Psychiatry, Radiology, and Surgery.

Responsibility for the educational policies of the Medical College is shared by the Executive Faculty Council, consisting of the academic administrative officers and the chairpersons of those departments with major teaching commitments to medical students, and the General Faculty Council composed of elected faculty representatives from all departments of the Medical College. The Medical Student Executive Committee consists of elected representatives from each of the four classes of medical students and serves as a forum for student opinion and for communication between faculty and students.

Each department offers courses that must be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University. The courses are arranged in their sequence and duration to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation with the degree of Doctor of Medicine.

In order to fulfill its responsibility and desire to continue and further the high standards and excellence of the academic programs at Cornell, the faculty reserves the right to make changes in the curriculum at any time.

The various departments also offer courses and

opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine who are not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study in the Medical College curriculum. The time devoted by the prospective physician to preparation for the practice of medicine includes at least one year, and often many more years, of graduate medical education as intern or resident in a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his or her course of study according to special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not a requirement for graduation, but students are encouraged to engage in individual work, as time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote time to a single subject in which they have a special interest. The development of great technical proficiency in the various fields of clinical medicine is not expected during the regular medical course but must await adequate training after graduation.

First-Year Curriculum

The first year of study is devoted to anatomy, biochemistry, physiology, neurosciences, and introductory medicine, including the basic elements of physical examination, interviewing techniques, and the sociological determinants of disease. Clinical conferences are presented in these courses to illustrate the application of the basic sciences to clinical medicine. A series of weekly interdisciplinary sessions explores a wide range of medical topics, again emphasizing the interrelationships of the basic sciences to each other and to clinical medicine.

Second-Year Curriculum

In the second year, the basic sciences of microbiology, pharmacology, and pathology are completed and the full-time clinical curriculum is begun with physical diagnosis, neurology, psychiatry, and public health. Weekly clinical pathological conferences serve as a continuing point of integration of the basic and clinical sciences.

Summers

In addition to scheduled time for electives during the first two years, the summers following the first and second years are free and may be used to acquire or to further experience in investigative work, if a student wishes.

Third-Year Curriculum

Clerkships of seven to twelve weeks' duration, in the forty-five week (September through July) third-year curriculum, provide a sound basic introduction to all the major clinical fields. When students have completed this clinical core curriculum, they are sufficiently acquainted with the various clinical specialties to have identified their primary areas of interest, both in the clinical and basic science fields. Accordingly, they are prepared to plan an educational program for their final medical school year which is best suited to their interests and needs.

In the spring of the third year, each student chooses a senior faculty member as an adviser to help in planning the fourth-year program. Numerous elective opportunities available in the Cornell Medical Center are described in the *Catalog of Electives*. Other electives in the center or in other educational institutions may be arranged with the approval of the student's elective adviser.

Fourth-Year Curriculum

The fourth year is a time when students can correlate the preceding experiences of medical school, begin to function effectively in the physician's role, and sharpen their clinical skills in preparation for residency training. Presently at Cornell, the fourth year curriculum is largely elective and students have latitude in choosing their own programs. Under consideration is a curriculum which will provide for each student a "subinternship", substantial longitudinal experiences in the Out-patient Department and opportunities for basic research or clinical investigation in addition to a number of elective choices.

Summer Fellowships

Several fellowships are available for selected students who wish to participate in investigative work during the summers following the first and second years.

One-Year Research Fellowships

Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to pursue research in the field of choice. Such

research opportunities are available in all departments of the Medical College. A leave will be considered for investigative work in other institutions. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

Coordinated M.D.-Ph.D. Programs

For students interested in teaching and research careers in the basic biomedical sciences or in clinical medicine, two combined M.D.-Ph.D. programs are offered at Cornell University Medical College.

1. One M.D.-Ph.D. program is coordinated between Cornell University Medical College and the Cornell University Graduate School of Medical Sciences, and is described in the *Announcement of the Graduate School of Medical Sciences*. Graduate programs are offered in the fields of biochemistry, biological structure and cell biology, biology, biomathematics, biophysics, genetics, microbiology, neurobiology and behavior, pathology, pharmacology, and physiology. Students in this program work under the supervision of faculty members at the Medical College and the Sloan-Kettering Institute for Cancer Research. This intramural M.D.-Ph.D. program can be entered at any time by matriculated Cornell medical students or by resident physicians on the house staff of hospitals affiliated with the Medical College.

2. The second M.D.-Ph.D. program is coordinated between Cornell University Medical College and the adjacent Rockefeller University and is described fully in a special announcement of this program. Students in this program pursue their medical education at Cornell and their graduate education in the many areas of study available at Rockefeller University, under the direction of the Rockefeller faculty. Students completing this program receive an M.D. degree from Cornell University and a Ph.D. degree from Rockefeller University. Applicants to this program must be accepted by the Cornell-Rockefeller Committee in the spring of the year of joint matriculation. In addition to the AMCAS application form, applicants to this program must also file a special application form that is available from: Rockefeller University, York Avenue and East Sixty-sixth Street, New York, New York 10021.

In selecting between these two programs, an applicant should carefully survey the different areas of graduate study offered by the Cornell University Graduate School of Medical Sciences and Rockefeller University and then select the program most consistent with his or her research and career goals. Both coordinated programs are normally expected to require about six calendar years of study.

Questions about these programs should be addressed to the Office of Admissions, Cornell University Medical College, 411 East Sixty-ninth Street, New York, New York 10021.

Summer Fellowship Program for Minority Students

A summer fellowship program for minority-group premedical students has the specific aims of increasing the number of minority-group students in medical schools and of increasing their awareness of the great variety in medical career opportunities. Premedical students who have completed their junior year spend ten weeks as summer fellows at the Medical Center.

Fellows work three days a week at a variety of research activities with sponsors who are faculty members from different departments. The students in this program are often involved jointly with medical students who hold similar fellowships. Two mornings a week are devoted to a specially designed course in cardiovascular physiology. The afternoons of these days are used for a series of discussions about health problems of various communities, and visits to a neighborhood health center program.

Information regarding applications for fellowships and all other aspects of minority-group admissions can be obtained by writing to James L. Curtis, M.D., Associate Dean, Cornell University Medical College. Application should be made early in the junior year, and not later than April 15.

Advancement and Examination

The curriculum of Cornell University Medical College is divided into four successive academic years, each year building on the subject material of preceding years. A student must successfully complete all of the course work of one academic year before being approved for promotion to the next year. Any student who, by quality of work or by conduct, appears unfit to enter the medical profession may be required at any time, after an opportunity to be heard, to withdraw from the Medical College.

At the end of each academic term, a student's performance in all required and elective courses is evaluated and recorded. A student's final rating in a course is determined by the appropriate department after evaluation of the student's performance in all aspects of the course work, including the results of examinations.

At the end of each academic year, a student's final rating is based on the results of evaluations in all of the courses in the

curriculum of that year. These final ratings are reviewed by the Committee on Promotion and Graduation and are submitted to the Faculty Councils for final approval. Guidelines for the Committee on Promotion and Graduation have been established and are distributed to all entering students.

A transcript of the Medical College record of a student or graduate will be mailed on the student's request to accredited hospitals and to educational or other well-recognized institutions as credentials in support of his or her application for a position or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College.

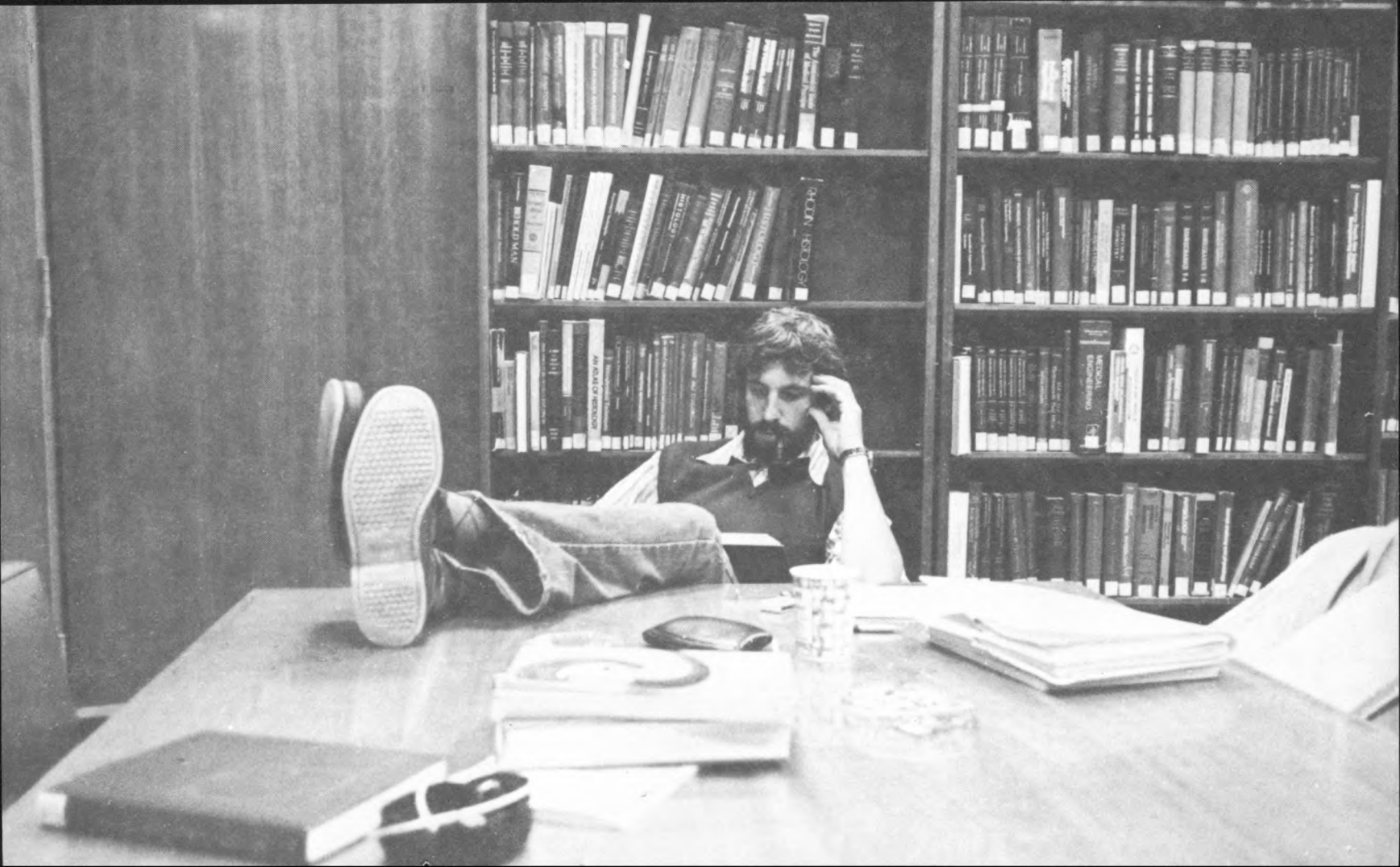
Requirements for Graduation

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character. They must have completed successfully four full courses of at least eight months each as regular matriculated medical students. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. Every candidate for a degree must pay, or satisfactorily arrange, all accounts due the University at least ten days before commencement.

Graduation from Cornell University Medical College fulfills one of the requirements necessary to apply for a license as a physician in the various states. Most of our graduates, however, take further training. Stipends for this postgraduate experience vary from place to place, but range from approximately \$10,000 to 14,000 per year.

Examinations for Medical Licensure

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States. Certified students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by a majority of the state and federal territory licensing agencies and by the respective authorities of England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board



of Medical Examiners is not to be confused with a federal governmental agency. For information, write to the National Board of Medical Examiners, 3930 Chestnut Street, Philadelphia, Pennsylvania 19104.

Fees and Expenses

All fees for instruction and other charges are paid at the Accounting Office of the Medical College, Room D-07, 1300 York Avenue, New York, New York 10021. Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-07, immediately after registering.

Any individual who owes money to the University will not be allowed to register or reregister in the University, receive a transcript of his or her record, have his or her academic credits certified, be granted a leave of absence, or have a degree conferred.

Application fee. A nonrefundable charge of \$30 is made for reviewing each application.

Acceptance Deposit. Each student admitted is given notice of acceptance and a limited time (usually two weeks) in which to decide if he or she will enroll in the entering class. The student's name is not placed on the class list until the acceptance fee of \$100 is paid. The fee is credited toward the tuition charge and is not refundable if the student fails to enter.

Tuition

Tuition for one academic year is \$5,100 starting July, 1977. (The tuition may be revised during the academic year). It is payable at the beginning of the academic year or in two equal parts, the first of which must be made within 30 days after classes begin, and the second in January 1978. No refund will be made in any instance. The following are included in the tuition fee:

1. **Matriculation fee.**
2. **Student hospital insurance.** This calendar-year insurance coverage is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to spouses and families of married students at additional cost. The plan covers all hospital costs for a limited period of time for any student in good academic standing who is hospitalized in The New York Hospital. It assures the usual Blue Cross coverage for hospitalization in other hospitals.
3. **Personnel health service.**
4. **Graduation fee and rental fee for cap and gown for graduation exercises.**

Books, Instruments, and Microscopes

The average cost of books and instruments is approximately \$600 a year. Each student is required to have a microscope of an approved type. The instrument should have scanning (3-5X), low-power (10X) and medium-power (40X) dry objectives. It

is important that the coarse adjustment of the scope permit a clearance of at least 30 mm between the 10X objective and the stage. The scope should also be equipped with a well-working oil immersion system. The oil immersion objective, substage condenser, and light source should produce sharp images of good resolution in a well-illuminated viewing field. Binocular microscopes are available for rental at \$110 per academic year. Information on rental will be furnished each entering student prior to registration.

Financial Aid

The Medical College has scholarship funds and loan funds to assist medical students who are in need of financial aid. These funds are described below.

New York State programs for financial aid to New York State residents are mentioned at the ends of the sections on scholarships and loans.

Scholarships

Scholarship income is derived from the several endowed and invested funds and other resources listed below, and from an appropriation from the Medical College budget. Scholarship awards are made, to the extent of the funds available, on the basis of comparative financial need. Any student in good standing in the Medical College who has real financial need is eligible to apply for assistance. Financial need is not a factor in the selection of students at Cornell University Medical College.

Awards to entering students are made on the same basis as to students already enrolled. An applicant who has been accepted for admission and has indicated the intention of enrolling at the Medical College may file a formal application for scholarship aid.

Awards, unless specifically indicated below, are made for one year only, and the financial situation is reviewed each year by the Committee on Financial Aid.

Vivian B. Allen Scholarship Endowment.

Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to provide income to aid needy students of good scholastic standing who otherwise would not be able to complete their medical education.

Becker Family Scholarship Fund. The income from this endowed fund, established by a generous gift from the estate of Louis Becker, is to be used to provide scholarships for deserving students.

The Lois and Max Beren Foundation may award a scholarship to a promising student accepted for admission at Cornell University Medical College in an amount to be determined by consultation between the college and the foundation. The student shall be selected by the College, subject to the approval of the foundation, and may be a candidate for either the Ph.D. or M.D. degree. It is the desire of the foundation to assist a student who possesses great eagerness to

pursue studies but who would find it impossible or impractical to do so without the financial support of the foundation.

H. Meredith Berry Scholarship Fund. The income from this endowment fund, established by gifts from Dr. H. Meredith Berry '41, is used to help a needy and deserving student.

Siegfried and Josephine Bieber Scholarship Endowment. The income from the endowment, given by the late Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation, provides scholarships for students in good academic standing who need financial aid.

The John V. Bohrer Scholarship Fund was endowed by a bequest from Laura S. Bohrer in memory of her husband, Dr. John V. Bohrer. Scholarships from the income are awarded to students "who shall express a willingness and intention to restore to the trust fund the amounts received by them, as and when their circumstances permit."

Lucien and Ethel Brownstone Merit Medical Scholarship. Generous gifts to Cornell University Medical College and to three other New York City medical schools by the Lucien and Ethel Brownstone Foundation established the first American Merit Medical Scholarships. The income from the endowment established by the gift is to be awarded as a four-year scholarship to one or two students. The donors hope to encourage the most innately gifted, best educated, and most mature individuals to enter the complex and humane field of medicine. The first award was made in 1968.

Mary E. C. Cantle Scholarship Fund. The income from this invested fund, which was established by a bequest from Mary E. C. Cantle, provides scholarships for worthy students in the Medical College.

Lillian M. Charles Scholarship Endowment. The income from this fund, which was established by a generous gift from the late Mrs. Howard W. Charles, provides scholarship assistance for needy students who are in good academic standing.

Citibank Medical Scholarship. This scholarship was established by the First National City Bank to be awarded to a first-year student who is a resident of New York State and has demonstrated financial need.

Coppermines Foundation Scholarship Endowment. Endowed by a generous gift from the Coppermines Foundation, Inc., the income provides financial assistance for needy and worthy students.

Jean Davidoff and Elizabeth Cohen Scholarship Fund. This endowment was established through a gift by Dr. Harry S. Berkoff '23, in memory of his sisters. The income is available annually to a student, or students, in the third- and fourth-year classes who are in need of financial aid and who, by their scholarship and conduct, have proved

worthy of this. Such students should express their willingness and intention to return to the fund the amounts received by them as and when their circumstances permit.

Dean's Special Scholarship Fund. This invested fund was established through the generosity of many contributors. The income is used to provide scholarships for worthy students who are especially in need of financial assistance.

Kate and Henry Eichel Scholarship Fund. This gift, from the estate of Kate Eichel, is an invested fund. It has been given in memory of Kate Eichel and her brother, Dr. Henry Eichel '07. The investment income will be used for scholarships for students in need of financial assistance.

Dr. Harry Eno Scholarship Endowment. Established in 1955 by the gift of the late Dr. Harry Eno, the income from this endowment provides scholarships for needy and worthy students in the Medical College.

The Jeremiah S. Ferguson Scholarship Fund was established by the Board of Trustees of Cornell University in memory of Jeremiah S. Ferguson who, throughout his connection of more than forty years with the Medical College, devoted a great deal of his time to helping students with their individual problems and promoting their professional careers. The investment income is awarded annually by the Committee on Financial Aid to a student or students in the third- and fourth-year classes in the Medical College who are in need of financial aid.

Anthony Ferrara Memorial Scholarship Fund. The mother of Anthony Ferrara and his fellow students and friends established this fund. The investment income provides scholarship assistance to deserving students.

Joseph P. Ferrigan Endowment. The income from this endowed fund, established by an anonymous gift, is to be used to benefit a worthy and meritorious student in need of financial assistance.

The Wallace D. Garbrandt Scholarship Endowment was established by the late Mabel G. Gormley, and the income is to be awarded annually to a regularly matriculated student of high academic achievement who is in need of financial assistance.

The Judge and Mrs. Samuel Jordon Graham Memorial Scholarship Endowment was established by a bequest from the estate of E. Norman P. Graham. The income provides scholarship assistance for deserving students of the Medical College.

Connie Gulon Scholarship. Providing annual tuition for a student of the Medical College, this scholarship was established by Ambassador and Mrs. Vincent de Roulet to express their gratitude to the late Dr. Connie Gulon '17.

The Haddad Foundation Scholarship. The R. G. Haddad Foundation has made available grants to

medical students who are United States citizens of Syrian or Lebanese descent and who are in need of financial assistance. The grant is for one year and may be renewed upon application.

Lawrence W. Hanlon Scholarship Fund. This fund was established in memory of Dr. Lawrence W. Hanlon, who had given twenty-five years to the service of the Medical College. In the last fifteen of those years, he was associate dean and, in that role, did as much as any one person ever has to shape the lives and careers of the students. Contributions from his associates and friends make this fund possible.

Health Professions Scholarship Program. At the present time, the Health Professions Scholarship Program, administered by the Public Health Service of the U.S. Department of Health, Education, and Welfare, contributes some funds each year for students who demonstrate financial need.

Dr. John A. Heim Scholarship Endowment. The income from this fund, which was established under the will of John A. Heim '05, provides as many scholarships in the Medical College as there are funds available for that purpose. The awards are made to regularly matriculated students who are in need of financial assistance as provided for in the terms of the bequest. First-year students who meet the prescribed standards are eligible.

The Irma T. Hirschi Scholarship. This fund, supported by a trust under the will of Irma T. Hirschi, grants annual scholarships to students. The will makes the following statement of the donor's wishes:

"All payments to medical schools selected by my individual Trustees . . . shall be applied by such schools as student financial aid for medical education of deserving students who may be deemed worthy of such aid by the Scholarship Committee (or its equivalent) of each such school.

All payments herein shall be designated as The Irma T. Hirschi Scholarship. I direct that the Scholarship Committee (or its equivalent), in designating the recipients of such financial aid, be guided by the following criteria: Financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life. No discrimination shall be made against applicants for financial aid on the ground of sex, race, religion, or national origin. It is my desire, but I do not require, that a student, once selected for financial aid on the basis of the criteria set forth above, shall continue to receive financial aid throughout the years of such student's dedicated and successful study, provided the student continues, in the judgment of such Scholarship Committee (or its equivalent), to meet the criteria set forth above."

Several other medical schools in the city are also beneficiaries under the trust.

Maier and Shantsya Hitzig Scholarship. Through a generous gift, Dr. William M. Hitzig '29 established this endowed scholarship in memory of

his father and mother. The income is allotted annually as a scholarship, with preference given to students who have done meritorious work in internal medicine.

The Dr. Edward Hoenig Scholarship Fund was endowed by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40 in memory of their father, Dr. Edward Hoenig '10. The income is to provide financial assistance to needy but worthy students.

Samuel Hollander Prize Endowment. The income from an endowed fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy student as a prize for scholarship by the Committee on Financial Aid.

The Ruth Hollohan Scholarship Fund was established under the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The investment income is used for scholarships in the Medical College with first consideration given to entering students of high academic achievement who are in need of financial assistance.

Elizabeth and Neill Houston Scholarship Endowment. The scholarship was established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and the income from the endowment provides a room-rent scholarship.

Professor Andrew Hunter Scholarship. This fund was established by the late Maurice H. Givens Trust in honor of the late Professor Andrew Hunter, who was professor of biochemistry at the Ithaca Division of Cornell Medical School, where Mr. Givens served as Professor Hunter's assistant from 1909 to 1914. The income from this endowment provides scholarships to needy and worthy students in the Medical College.

Dr. Charles I. Hyde '10 and Eva Hyde Scholarship Endowment. Established by the late Dr. Charles I. Hyde and Mrs. Eva Hyde in memory of their daughter, Anita Shirley Hyde, this endowment provides that income be available annually to meritorious students who have completed one year of the regular medical course and are in need of assistance.

Robert Wood Johnson Foundation Student Aid Program. This grant provides support for scholarship awards for woman students, students from rural backgrounds, and those from the country's black, Indian, Mexican-American, and United States mainland Puerto Rican populations. The individual recipients and the amounts will be determined by the Medical College and not by the Foundation.

The Dick Katzin M.D. Scholarship Fund was established in 1966 by Dick Katzin '65. The annual gift will be used to give financial aid to needy students.

Samuel Farrar Kelley M.D. Scholarship Fund. Contributions for this invested fund are being given

by Mrs. Lillian E. Kelley in memory of her husband. Support from the income from this fund is available to students in good standing who need financial assistance.

The 1936 John and Katherine Mayer Scholarship Fund. The investment income is available annually to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only but may be awarded for a second or third year provided the qualifications of the candidate merit it.

The 1939 John and Katherine Mayer Scholarship Endowment. The income is available annually to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only, but may be awarded for a second or third year provided the qualifications of the candidate merit it.

Charles M. McLane Memorial Scholarship. This generous gift was established by the Merlin Foundation. The investment income is to be used to provide a scholarship for a needy student from the third- or fourth-year class whose record reflects dedication and personal achievement of a high order.

Medical College Dormitory Fund No. 2. This invested fund, established by gifts made in the Greater Cornell Campaign, provides income for rental scholarships to be awarded to students residing in the Medical College dormitory.

Medical College Memorial Scholarship Consolidated. This endowment fund is supported by various gifts given in memory of individuals for scholarship purposes. The income is used for scholarships to worthy students who are in need of financial assistance.

Margaret, Henry, Rosalie, and Henry E. B. Meyer Educational Fund. The income from this very generous trust fund shall be used toward paying a portion of the cost of tuition of one or more students, such students to be selected each year from the entering class. This trust fund was established by a gift from the estate of Henry E. B. Meyer '07, in memory of his parents, his wife, his sisters, and himself.

Li Ming Scholarship Fund. The income from this endowment fund, established by a bequest from the estate of Li Ming, is used for scholarship purposes and, in accordance with the donor's stipulation, preference is given to students of Chinese birth or descent or nationality or, if there are no such qualified applicants, then scholarships are awarded to other qualified students.

Dr. George A. and Nora W. Newton Scholarship Endowment. The income from this fund, which was established by a bequest from the estate of Nora W. Newton, provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Committee on Financial Aid on the basis of high scholarship and character.

New York Community Trust Scholarship. These funds are provided by the New York Community Trust from a gift received from the late Charles F. Iklé. They are to extend "scholarship assistance to needy and overburdened students so as to decrease the necessity of their spending many hours of extraneous work in order to continue their medical studies."

The Gustave J. Noback Memorial Fund for Advanced Study and Teaching in the Field of Anatomy. In 1963, a second fund to honor Dr. Gustave J. Noback was established by Miss Berthe Manent to help meet the needs of young men and women entering the field of anatomy for advanced study and teaching. The income is to be awarded yearly at the discretion of the professor in charge.

The Maurice and Cecelia Nordlicht Scholarship Fund. Established by Dr. Stephen Nordlicht, the income is available annually as a scholarship, with preference given to students who have done meritorious work in psychiatry. If, in any year, there is no student in need of such assistance, the income may be utilized for research in the Department of Psychiatry.

Evelyn Buckalew Ochester and Charles W. Ochester Memorial Scholarship Fund. This endowment fund was created by Alfred J. and LeMoine R. Buckalew in memory of their sister, Evelyn Buckalew Ochester, and her husband, Charles W. Ochester. Income from the fund is used to provide financial assistance or incentive recognition awards to worthy students who are in need.

Dr. E. Cooper Person Memorial Scholarship Fund. Friends of the late Dr. Person established this invested scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

John Metcalf Polk Scholarship Endowment. A gift under the will of William Mecklenburg Polk, the first dean of the Medical College, established an endowed fund. The income is to be used to provide for scholarships for students of the Medical College.

Thomas C. Rennie Scholarship Fund. Friends of the late Dr. Rennie, professor of social psychiatry, have set up an endowed fund; a portion of the income is available to students interested in carrying out research work in social psychiatry.

Jessie Ridley Scholarship Fund. This fund was established by the Jessie Ridley Foundation, Inc., and will provide scholarships for deserving young men and women to assist them in attending institutions in this country. Financial need and physical handicaps of the individual shall be considered in awarding these scholarships.

Anna E. Ray Robinson Education Fund. The income from this endowed fund, established under the will of Anna E. Ray Robinson, provides scholarship assistance for students. A preference is to be given to descendants of Anna E. Ray Robinson and of her husband's brothers and sisters.

The Louls and Rachel Rudin Scholarship Fund.

This annual gift from the Louls and Rachel Rudin Foundation, Inc., shall be used for a scholarship in recognition of Dr. Lawrence Sonkin and shall be available to students without regard to age, sex, creed, or race, who demonstrate financial need, who show merit and great promise as students, and who are citizens of the United States. The scholarship shall be for the payment of tuition and support of students who otherwise would not be able to pursue careers as physicians.

The Dr. Jacques Saphier Scholarship Endowment

was established by Dr. Saphier's father, the late Conrad J. Saphier, in memory of Dr. Jacques Conrad Saphier (lieutenant, j.g., U.S.N.R.), class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in performance of his duty. The endowment income is awarded annually to a meritorious student of the Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

Anna and David C. Schilling Scholarship Fund.

The income from this endowment fund, established by a bequest from the estate of David C. Schilling, is used to provide first year scholarships for needy students of high scholarship and character in the Medical College.

The Carl J. Schmidlapp Memorial Scholarship Fund

was endowed by Dr. Jean Schmidlapp Humes '49, in memory of her father, Carl J. Schmidlapp, Cornell University '08. The income is awarded annually to a deserving student in any class of the Medical College, selected on the basis of need and ability.

Joseph M. Seider Scholarship Fund. This fund, financed by an annual gift from Mr. Seider, provides scholarships for worthy students who are in need of financial assistance.

The Thorne Shaw Endowment Scholarship Fund

provides the income to support three scholarships. A gift from the estate of Julia Shaw established the endowment. One scholarship is available to students after at least two years of study in the Medical College and two scholarships are available to students after at least one year of study in the Medical College.

The Robert E. Speno Endowment Scholarship Fund

was established in 1952 by a gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and the income from the endowment provides a room-rent scholarship.

Charles Rupert Stockard Scholarship. An invested fund was established in 1939 by a friend of the late Charles Rupert Stockard, professor of anatomy in the Cornell University Medical College, 1911-39. The income from this fund is to be awarded to either one or two students who have shown promise in the work in the Department of Anatomy and who are desirous of doing advanced

work in that department. The scholarships are to be awarded by the Executive Faculty Council upon nomination by the head of the Department of Anatomy.

The Walter C. Teagle Scholarship Fund,

an endowment fund established in 1963 by a very generous gift from The Teagle Foundation, Inc., is a permanent memorial in honor of Mr. Teagle, with the recipients of the income from the fund to be designated Teagle Scholars. The letter establishing the fund explains the goal of the award as follows: "It is further the desire of the Directors of the Foundation that each student given an award be urged—but in no way required in any legal way—to consider in later life making a gift to Cornell University for the benefit of some student in the Medical College, in order that future generations of students may have available further funds to help defray the rising costs of medical education."

Training in Psychiatry Fund. A grateful patient, recognizing the value of psychiatric therapy in helping people achieve a more normal, fruitful life, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne Whitney Psychiatric Clinic.

Dr. Samuel M. Weinreb Medical Scholarship Fund.

This endowed fund was established by the family, friends, and former patients of Dr. Samuel M. Weinreb '23, in his memory. The income from this fund is available to a needy fourth-year student who intends to practice in a medically underserved area.

Weld Fund Scholarship. Established by David and Mary Blake Weld, the income from this endowment fund provides scholarship assistance for needy students who are in good academic standing.

Philip G. Woodward Scholarship Fund.

The income from this fund, which was established by a bequest to The Society of the New York Hospital from Philip G. Woodward, is available to be used for Philip G. Woodward Scholarships, to be awarded to third- or fourth-year students of the Medical College who have demonstrated interest, initiative, and ability in the field of psychiatry, neurology, and/or behavioral biology.

Mary Louise Wuester Scholarship Endowment.

The income from this endowment fund, which was established in memory of his mother by Dr. William O. Wuester '33, is awarded annually to a regularly matriculated student of good scholarship who is in need of financial aid.

New York State Scholarships for State Residents

Information about scholarships for New York State residents may be obtained by writing to the New

York Higher Education Services Corporation, Student Financial Aid Section, Tower Building, Empire State Plaza, Albany, New York 12255. The scholarships granted are:

Tuition Assistance Program. Applications should be filed before September 1 each academic year. However, applications may be filed later in the school year. Annual application is required.

Regents Scholarships for Graduate Study in Medicine and Dentistry. Applications should be filed by October of the last year of preprofessional study.

Scholarships for Woman Students

Frances N. and John A. Cashman Scholarship Fund. This endowed fund was established by a generous gift from the Trust of Frances Nevins Cashman. The income from this fund shall provide a scholarship to a woman student who, in the opinion of the faculty, is deserving of such assistance.

Mary F. Hall Scholarship Endowment. The income from a fund established by bequest of Miss Mary F. Hall is available to any woman student in the Medical College who needs its aid, who is a bona fide resident of the state of New York, and was such prior to admission to the college.

Mary Putnam Jacobi-Anna Forrest Rowe Scholarship. A bequest from William Vincent Rowe endowed this fund. The income provides financial assistance for woman students.

The Elise Strang L'Esperance Scholarship Endowment. established by a bequest from Dr. L'Esperance, provides income for financial assistance for woman students at the Medical College.

The Elizabeth C. Lowry Scholarship Fund was endowed by Dr. Lowry, a member of the class of 1935, in memory of her late husband, Dr. Thomas Lowry, who was also a member of that class. The income is to be used to provide financial assistance to woman students in the Medical College. If, in any year, there is no woman student in need of such assistance, the income available may be awarded to a woman candidate for a Ph.D. in the Graduate School of Medical Sciences.

Dr. Leona E. Todd Scholarship Endowment. A gift from the estate of Alzina T. Elliott established this endowment fund, the income to be used for scholarships for woman students in the Medical College.

Marie and John Zimmermann Fund. The income from this endowed fund, established by a gift from the late Marie Zimmermann and the Marie and John Zimmermann Fund, Inc., is used to aid needy and worthy woman students. In addition to the endowment income, a generous annual gift is being given by the Zimmermann Fund, Inc., for supplemental scholarships to be made to a few needy and worthy woman students.

Loan Funds

The 1923 Loan Endowment. The income from this endowment fund is available as a loan to a student needing financial assistance.

Alumni Association Loan Fund. The Medical College makes loans available to students from a portion of the income from an endowment fund that is provided through the Alumni Association. Students in the upper classes will be given preference.

Student Loan Funds. Revolving funds contributed through different sources, including the Kellogg Foundation, the Charles Hayden Foundation, the Student Bookstore, and the Bristol-Myers Fund, are available to students in all classes who are in need of assistance. Every effort is made, within the limitations of the financial structure of the institution, to help students who, by reason of unforeseen circumstances, are having financial difficulties. A special committee considers each case on its individual merits.

Joseph C. Hinsey Loan Fund. Established through the generosity of the Olin Foundation and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.

Federal Loan Fund. The Medical College is participating with the Department of Health, Education, and Welfare in a Health Professions Student Loan Fund. This fund provides loans, if justified by financial need. The details of this loan program are available in the Student Affairs Office, Room C-118.

Lawrence W. Hanlon Student Loan Fund. This fund was established by the Medical College in memory of Dr. Lawrence W. Hanlon, associate dean of students, who died in 1970. Dr. Hanlon devoted his life to the welfare of the students at the Medical College, and this fund is designed to help continue his good work.

State Guaranteed Loans. Students may apply for federally guaranteed student loans from their banks in any state. Students seeking New York State guaranteed loans should apply to the New York Higher Education Services Corporation, Student Financial Aid Section, Tower Building, Empire State Plaza, Albany, New York 12255.

There are other student loan funds available from organizations with which Cornell University has a working agreement. For further details, please inquire in the Office of Student Affairs, Room C-118.

Prizes

Mary Aldrich Fund. In memory of William Mecklenburg Polk, M.D., LL.D., first dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Medical College. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented, in writing, of

research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are to be submitted in octuplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Office for Student Affairs, Room C-118, not later than the first Monday in April.

In 1977, this prize was not awarded.

The Clarence C. Coryell Prize in Medicine was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize, financed by the income, is to be awarded annually to the student having the highest general average in medicine up to the end of the junior year. For 1977, the prize was awarded to Kenneth A. Brown, Mark H. Goldgeier, and Greg Zorman.

The Clarence C. Coryell Prize in Surgery was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize, financed by the income, is to be awarded annually to the student who attains the highest marks in surgery during the fourth year. For 1977, the prize was awarded to David Hill Serfas.

Dean's Research Prize. Cash awards are offered to matriculated medical students of any class for excellence in research. For 1977, the prizes were awarded to Joseph H. Antin, Frank J. Green, and Steven W. Werns.

Oskar Diethelm Prize for Excellence in Psychiatry was established in honor of Oskar Diethelm, who was chairman of the Department of Psychiatry of Cornell University Medical College from 1936 to 1962. It is awarded annually to the medical student who has demonstrated exceptional interest and ability in psychiatry through research, clinical activities, or scholarly work. For 1977, this prize was awarded to Thomas Richard Kosten.

Sarah O'Laughlin Foley Prize in Clinical Medicine. Dr. William T. Foley, clinical associate professor of medicine and a member of the class of 1937, established this annual prize in memory of his mother. The recipient, a member of the graduating class, is selected for excellence in clinical medicine by the chairperson of the Department of Medicine. For 1977, the prize was awarded to David Hill Serfas.

The Louis Gibofsky Memorial Prize. This prize is a cash award offered to the medical student who submits the best research paper in nephrology, dialysis, transplantation, or immunobiology. The award is in memory of Louis Gibofsky. In 1977, the prize was awarded to Suzanne M. Wright.

The Good Physician Award. A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded to that member of the graduating class who, by vote of the class, best exemplifies the in-

tangible qualities of "The Good Physician." For 1977, the award was presented to David Hill Serfas.

Charles L. Horn Prize Fund. The income from this invested fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

The Herman L. Jacobius Prize Endowment in Pathology was established in 1945 by a gift from Dr. Lawrence Jacobius and his friends in memory of his son, Dr. Herman L. Jacobius '39, who was killed in action in the Netherlands on September 28, 1944. The income is available annually to the student of the third- or fourth-year class who, in the opinion of the Department of Pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If, in any year, no student merits the distinction, the award will be withheld. For 1977, this prize was awarded to Vincent Paul deLuise.

The Dr. Harold Lampert Biomedical Research Prize. A cash award is offered to the medical student who submits the best thesis reporting original biomedical research while a candidate solely for an M.D. degree. The award includes a framed certificate and is in memory of Dr. Harold Lampert. In 1977, this prize was awarded to Kenneth A. Brown.

The George S. Meister Prize in Pediatrics has been established in memory of Dr. George S. Meister '26, as an expression of the warm esteem in which he was held. The prize consists of income derived annually from an invested fund contributed by members of his family, his close friends and associates, his classmates in chemical engineering at New York University, and his classmates in medicine at the Medical College. Awarded initially in 1967, the prize is given each year for efficiency in pediatrics to a member of the graduating class selected by the Department of Pediatrics. For 1977, this prize was awarded to Laura Jean Brandt.

Alfred Moritz Michaelis Prize Endowment for Efficiency in General Medicine. The income is offered as a prize for general efficiency in the Department of Medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from the Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital on April 24, 1926. The award is presented at the end of the fourth year to a member of the graduating class who has taken the full course of study at the Medical College. In 1977, this prize was awarded to Mark Howard Goldgeier.

National Foundation Merit Award. The National Foundation offers a cash merit award to the student who is judged by the Committee on Prizes in Research to have written the best thesis, or equivalent, on any subject relating to birth defects. The thesis should be submitted in quintuplicate to the Office for Student Affairs, Room C-118, by April 15.

The Gustave J. Noback Memorial Fund in Anatomy. Established in 1962 by Miss Berthe

Manent, a graduate of The New York Hospital School of Nursing, in memory of Dr. Gustave J. Noback. Dr. Noback will be remembered for his great kindness and generosity to all his students, and also for his work in research and sculpture. The income from this fund is to be awarded yearly at the discretion of the professor in charge to a student who has performed outstanding work in anatomy. In 1977, this prize was awarded to Joan O. Richter.

Arthur Palmer Prizes for Efficiency in Otorhinolaryngology. These prizes are made available from the income of the Arthur Palmer Fund, which was provided by the members of the Division of Otorhinolaryngology in honor of Dr. Palmer. The prizes are given to the students in the graduating class who have the best records in this specialty. For 1977, these prizes were awarded to Sherry Horn Kesden and Howard Barry Baum.

John Metcalf Polk Prizes for General Efficiency. These prizes, financed by the income from an endowed fund, are given in commemoration of John Metcalf Polk '99, who was an instructor in the Medical College at the time of his death on March 29, 1904. The prizes are presented at the end of the fourth year to the three students who have the highest academic standing for the four years of work. Only those students who have taken the full course of study at the Medical College are eligible. For 1977, these prizes were awarded to Ellen Spielman Gitler, Mark Howard Goldgeier, and David Hill Serfas.

Gustav Seeligmann Prizes Endowment for Efficiency in Obstetrics. Two prizes, financed by the income from an endowment established by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, are given to the two students of the graduating class who have made the best record in obstetrics. For 1977, the prizes were awarded to Mark Howard Goldgeier and Santana Lee Sienna.

Sondra Lee Shaw Memorial Fund. The income from an endowment fund established by Mrs. Joan S. Friedman in memory of her sister, Sondra Lee Shaw, supports an annual prize given in memory of Sondra Lee Shaw. The prize is awarded to the student who has produced an outstanding research paper in the fields of neurology, pharmacology related to the nervous system, or behavioral science. The prize winner is chosen by the Committee on Prizes in Research. This prize was not awarded in 1977.

Mitchell Spivak Memorial Prize in Pediatrics. Various donors contributed to the endowment for this prize as a memorial to the father of Jerry L. Spivak, Class of 1964. The prize financed by the endowment income, is awarded annually to the member of the graduating class who has made the best record in pediatrics. In 1977, this prize was awarded to Ciro Joseph Carafa.

T. Campbell Thompson Prize for Excellence in Orthopedic Surgery. A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery

established this endowed fund. The income is to be awarded yearly to that member of the graduating class who has demonstrated the greatest proficiency in orthopedic surgery. This award is to be made by the dean upon recommendation of the faculty staff members of the Hospital for Special Surgery. In 1977, this prize was awarded to Paul Francis Lachiewicz and Patrick Vincent McMahon.

The William C. Thro Memorial Prize Endowment was established in memory of William C. Thro '01, whose deep interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938. The income from the endowed prize is awarded to the student who attains the best record in the pathophysiology course. The candidate for the prize is recommended by the professor of pathophysiology. In 1977, this prize was awarded to Barbara Kilburn Richardson.

Upjohn Achievement Award. This annual award to a member of the graduating class is given in recognition of outstanding achievement in research. Consisting of a cash award and a plaque, the award is supported by the Upjohn Company. This prize was not awarded in 1977.

The Anthony Seth Werner, M.D., Memorial Prize was established by Dr. Aaron S. Werner to honor the memory of his son, Dr. Anthony Seth Werner, who was an assistant professor in the Department of Medicine at the time of his death in 1968. The prize is awarded annually to a member of the graduating class for excellence in the study of infectious diseases. This prize was not awarded in 1977.

The Harold G. Wolff Research Prize is presented in memory of the late, famed chief of neurology at The New York Hospital-Cornell Medical Center. The prize consists of a cash award and a selection of writings representing Dr. Wolff's most creative scientific contributions. The award is given to the medical student of any class who has completed the most outstanding piece of original research in the neurological or behavioral sciences. This prize was not awarded in 1977.

Named Professorships

The following are the named professorships at Cornell University Medical College.

The Winifred Masterson Burke Professorship in Rehabilitation Medicine was established in 1971 with a gift from the Winifred Masterson Burke Relief Foundation. The first and present occupant of the chair is Dr. Fletcher H. McDowell.

The James J. Colt Professorship of Urology in Surgery was established in 1970 through a gift from the James J. Colt Foundation. The first and present occupant of this chair is Dr. Victor F. Marshall, who is surgeon-in-charge of the James Buchanan Brody Urological Foundation at The New York Hospital.

The Livingston Farrand Professorship of Public Health and Preventive Medicine, established in 1944 upon receipt of a gift from the Milbank Memorial Fund and the Rockefeller Foundation Fund, is named for Livingston Farrand, who was the president of Cornell University at the time The New York Hospital-Cornell Medical Center was organized. The first occupant of the chair was Dr. Walsh McDermott. The current occupant is Dr. George Reader, chairman of the Department of Public Health.

The Given Foundation Professorship of Obstetrics and Gynecology was established in 1963 with funds from Irene Heinz Given and the John LaPorte Given Foundation. The foundation's gift was designed to provide endowed support for the chairman of the Department of Obstetrics and Gynecology.

The Stanton Griffis Distinguished Medical Professorship was established by the Board of Trustees of Cornell University in honor of the late Mr. Griffis, Cornell University '10. Mr. Griffis was a distinguished member of the Board of Trustees for twenty-one years, a trustee emeritus for twenty-four years, and a presidential councillor for eight years. The first Stanton Griffis Distinguished Medical Professor is Dr. Alexander G. Bearn, former chairman of the Department of Medicine.

The Roland Harriman Professorship of Cardiovascular Medicine was established with a gift from Mr. and Mrs. E. Roland Harriman in 1963. The first occupant of the chair was Dr. Thomas Killip III, formerly head of the Division of Cardiology in the Department of Medicine.

The Barklie McKee Henry Professorship of Psychiatry, established in 1968, honors the memory of the late Mr. Henry, who was president of The Society of the New York Hospital in 1940 and a moving force in the development of The New York Hospital-Cornell Medical Center's Department of Psychiatry into the eminent treatment, research, and teaching unit it is today. Dr. William T. Lhamon, who was chairman of the department and professor of psychiatry since his appointment at Cornell in 1962, was the first occupant of the chair. The present occupant of the chair is Dr. Robert Michels, chairman of the Department of Psychiatry.

The Joseph C. Hinsey Professorship of Anatomy, established in 1966, upon receipt of a gift from Nicholas Noyes, is the only professorship named for a living member of the faculty. A former dean of Cornell University Medical College, Dr. Hinsey was director of the center until his retirement in 1966. He is an emeritus professor in the Department of Anatomy of the Medical College. The first and present occupant of this chair is Dr. Roy C. Swan, a 1947 graduate of the Medical College, who has been professor of anatomy and chairman of the department since 1959.

The Johnson & Johnson Distinguished Professorship in Surgery was established in 1972 through a grant from the Johnson & Johnson Associated Industries Fund. The present occupant of the chair is Dr. P. W. Curreri.

The Hilda Altschul Master Professorship was established in 1971 in memory of the late Mrs. Master, who was the wife of Dr. Arthur M. Master '21. Endowment of the chair is made possible by gifts from Dr. Master; Mr. Arthur M. Master, Jr.; Mrs. Herbert H. Lehman, sister of Mrs. Master; and the Overbrook Foundation, whose president is Mr. Frank Altschul, Mrs. Master's brother. The present occupant is Dr. John H. Laragh.

The John Milton McLean Professorship of Ophthalmology was established in 1972 in memory of the late Dr. McLean who headed the Department of Ophthalmology for twenty-seven years. A graduate of the Medical College in 1934, his reputation as an eye surgeon, investigator, and teacher was worldwide. The memorial was initiated by Dr. McLean's former residents, the "eye alumni," whose inspiration and generosity brought together his former patients, associates, and friends, and their combined gifts endowed the chair. This chair has not yet been filled.

The Israel Rogosin Professorship of Biochemistry was established in 1965 when Mr. Rogosin made a substantial gift to The New York Hospital-Cornell Medical Center's Fund for Medical Progress. Dr. Vincent du Vigneaud, who received the Nobel Prize in chemistry in 1955, was Cornell's first Israel Rogosin Professor. The chair has been held since Dr. du Vigneaud's retirement in 1967 by Dr. Alton Meister, current chairman of the Department of Biochemistry, whose research centers on the chemistry and intermediary metabolism of amino acids.

The Lewis Atterbury Stimson Professorship of Surgery was established in 1935 by an anonymous gift presented to the Medical College in memory of Dr. Stimson, who was Cornell's first professor of surgery. A second gift was added to the endowment in 1944 by the late Candace C. Stimson, Dr. Stimson's daughter. The first occupant of this chair was Dr. Frank Glenn. The present occupant of this chair is Dr. G. Thomas Shires, chairman of the Department of Surgery.

The William D. Stubenbord Visiting Professorships were established in 1968 with an endowment from the Louis Calder Foundation "in memory of Louis Calder, Sr. and Louis Calder, Jr., and in recognition of the outstanding professional services and long friendship of William D. Stubenbord '31, for them and members of their families." The departments of the College will, in rotation, be host to visiting scholars. Each visiting professor will reside at the College for approximately one week and in that time will deliver a special lecture and hold seminars with faculty and students.

The Anne Parrish Tiltz Professorship in Neurology was established in 1958 by a substantial gift from a grateful patient of the late Dr. Harold G. Wolff, head of neurology at The New York Hospital-Cornell Medical Center from 1932 until his death in 1962. Dr. Wolff's successor to the chair is Dr. Fred Plum, current chairman of the Department of Neurology.

The Maxwell M. Upson Professorship of Physiology and Biophysics, established in 1970, honors the memory of Mr. Upson who had been a member of the Cornell University Board of Trustees for thirty-five years. The first occupant of this chair was the late Dr. Robert F. Pitts, who was chairman of the Department of Physiology and Biophysics from 1950 through 1972.

The Harold and Percy Uris Distinguished Professorship in Reproductive Biology was established in 1976 with an endowment from the Uris Brothers Foundation, Inc. The first occupant of this chair is Dr. Fritz Fuchs.

The Bruce Webster Professorship of Internal Medicine was established with a bequest from the estate of Dr. Bruce Webster, and gifts from Mr. Roy E. Larsen and Dr. Webster's sister, Mrs. Flora Shefrin. This chair has not yet been filled.

In addition to the professorships described above, a chair, occupied by Dr. Alexander G. Bearn, chairman of the Department of Medicine, has been endowed by Mr. Rogosin, but not yet named.

Form of Bequests

The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center." Gifts or bequests should be made to the College, to the hospital, or to the center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$..... for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

If for the hospital, the language may be: "I give and bequeath to The Society of the New York Hospital, the sum of \$....."

If for the center, the language may be: "I give and bequeath to The New York Hospital-Cornell Medical Center Fund, Inc., the sum of \$....."

Honorary Societies

Alpha Omega Alpha

Alpha Omega Alpha is a nonsecret medical college honor society, in which membership is based upon scholarship and satisfactory moral qualifications. It was organized at the College of Medicine of the University of Illinois, Chicago, on August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four-year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class may be elected. Open-

mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth are considered aspects of true scholarship and indispensable to it.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1977 are: Kenneth A. Brown, Ira M. Dauber, Vincent P. deLuise, Ellen S. Gitler, Mark H. Goldgeier, Alan E. Kilby, Mark G. Kris, Paul F. Lachiewicz, Molly H. Levin, James W. Ostroff, Joan O. Richter, Ronald P. Schwarz, David H. Serfas, Carol L. Storey, Francesca M. Thompson, Herbert P. Wiedemann, Mitchell M. Wolfson, Greg Zorman.

Sigma Xi

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University in Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proven ability to carry on original research and on nomination by active members of the Cornell chapter.

Alumni Association

Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association. Dues are \$25 a year. The activities of the association include a biennial reunion and banquet, student and faculty parties, meetings and panel discussions on topics of general interest, and a placement service. The association maintains an office in Room C-103. An annual appeal for unrestricted funds for the Medical College is made to the members of the association.

Officers

Neil C. Klein '60, President
Thomas J. Fahey, Jr. '59, Vice President
William T. Stubenbord '62, Secretary
George R. Holswade D'43, Treasurer
William A. Barnes '37, chairman, Medical College Fund
C. Richard Minick '60, Editor, *Alumni Quarterly*

Directors

Robert R. Abel '56
Lewis M. Drusin '64
Kathryn H. Ehlers '57
Robert S. Grayson '53
Frederick Martens, Jr. '57
Denis R. Miller '59
Rowland W. Pritchard '67
Arthur W. Seligmann, Jr. '37

Executive Assistant

Elizabeth Drahman

Military Advisers

The following members of the staff are available to students for consultation on the program offered by the various military units:

E. Lovell Becker, professor of medicine (Air Force)
Carl A. Berntsen, Jr., clinical associate professor of medicine (Navy)

Cosmo La Costa, assistant director, The New York Hospital (Army)

Personnel Health Service

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first-year class and students transferred to advanced standing from other schools are required to have a physical examination that is given by a member of the Health Service staff. In addition, each student must have a chest X ray, tuberculin test, and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for X rays, laboratory tests, or similar procedures when they are needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance unless some similar hospitalization is currently in effect through a previous policy. The cost of the insurance for each student is included in the tuition. It is strongly recommended that student dependents be covered by medical insurance. All cases of illness must be reported to the Health Service. Students may have in attendance physicians of their own choice, but

cooperation between such physicians and the Health Service is expected. Spouses and families of students are not eligible for care through the Health Service but will be referred to appropriate members of the hospital staff for medical care.

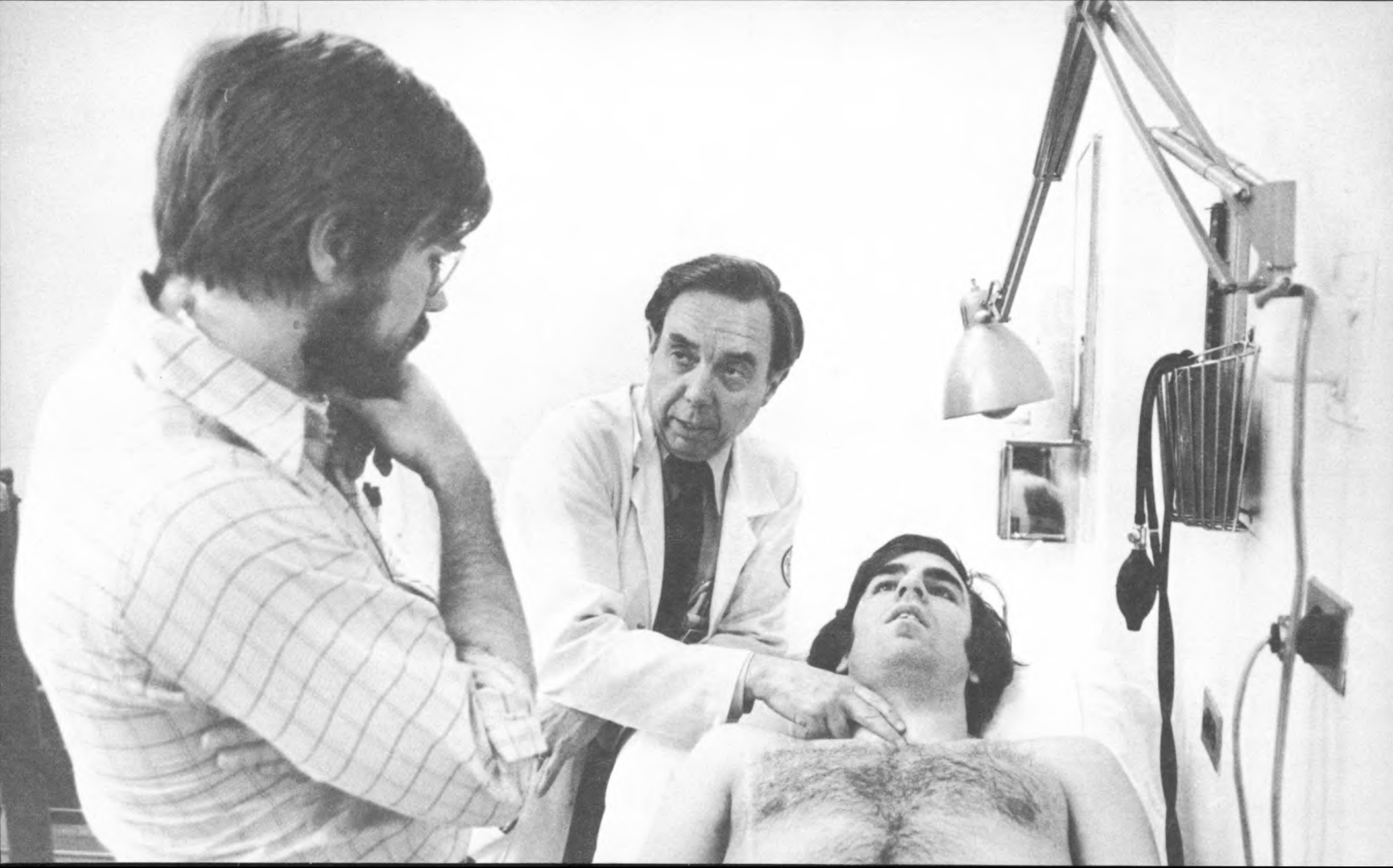
Residence Halls

F. W. Olin Hall, a student residence completed in 1954, is at 445 East Sixty-ninth Street, directly across from the Medical College entrance on York Avenue. Olin Hall contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room houses the George T. Delacourt, Jr. Book Collection, as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study but, since two rooms share a connecting bath, they may be used as a suite for two students, if desired. The rooms are completely furnished and linen service is provided.

Student rental for an academic year is \$1,110; for a full year (twelve months), \$1,332; and for periods of less than an academic year, \$111, per month. (These prices are subject to change). Several cafeterias are available in the main college and hospital buildings.

There are apartments available in Livingston Farrand Apartments as well as in some buildings on East Seventieth Street, for married students

Jacob S. Lasdon House, an apartment residence at 420 East Seventieth Street, is the newest student residence and was opened for occupancy in September, 1974. This building, which was made possible by a gift from the estate of the late Mr. Lasdon, contains studio, one-, and two-bedroom apartments. The rents for the various units in Lasdon House range from \$231 per month to \$389 per month.



Cornell University

Departments of Instruction

All academic courses of the University are open to students of all races, religions, ethnic origins, ages, sexes, and political persuasions. No requirement, prerequisite, device, rule or other means shall be used by an employee of the University to encourage, establish or maintain segregation on the basis of race, religion, ethnic origin, age, sex, or political persuasion in any academic course of the University.

Anatomy

Professors

R. C. Swan, Joseph C. Hinsey Professor of Anatomy, chairman; J. M. Bedford, D. C. Brooks, W. D. Hagamen, J. L. Sirlin

Clinical Professor

A. E. Inglis

Associate Professors

F. G. Girgis, T. H. Meikle, Jr., T. C. Rodman, J. C. Weber

Clinical Associate Professors

J. L. German III, G. Stassa

Assistant Professors

R. Bachvarova, G. Cooper, D. Gomez, B. B. Kaplan, J. M. S. Winterkorn

Adjunct Assistant Professors

M. D. Hamburg, John Hefton

Clinical Assistant Professor

J. L. Marshall

Visiting Assistant Professor

D. Soifer

Instructors

G. M. Hucko (Computer Science), M. Risley

Adjunct Instructors

M. W. Panio, P. Pellicci

Research Associate

J. Hirsch

Visiting Research Associate

S. B. Murphy

Teaching Assistants

M. Baran, M. Costello, D. Falcone, C. Herz, G. M. Jonakait, L. Manber, L. Morioka, E. Sturm

The study of medicine reasonably begins with the study of the normal structure of the human body, for the first question usually asked in any analysis of a biological system is: What are its spatial relations, its form, its configuration, and the time courses of development of these spatial relations? This is the substance, and this is the unique aspect of biological systems that constitutes the anatomical sciences.

The objective is to bring this unique aspect of the human organism into focus for the first-year medical student and to present the major structures, concepts, and principles. The presentation aims toward some appreciation of how these concepts have evolved, how these principles have been established, and what the outstanding questions are. The student is provided with firsthand experience in some of the methods of anatomy and is encouraged to understand the principles and major limitations of most of the modern methods of anatomy. Preceding a comprehensive, but necessarily superficial, study of human structure, an analysis is offered of representative structures, aiming to develop in the student confidence and competence for further independent study of anatomy in the years ahead. However powerful and indispensable current anatomical concepts are in the analysis of medical problems, they will eventually be replaced in the minds of the best physicians by much more powerful concepts.

The supervised study of anatomy, in the first and second trimesters of the first year, is organized into two courses for practical reasons. Gross Anatomy is most effectively studied by regions; microscopic and developmental anatomy, by structural and functional systems. In the third trimester the brain and spinal cord are studied concurrently in their gross and microscopic aspects. A student studies under the direct supervision of one of five tutors in each course. The correlation of understanding of structure gained from these courses is encouraged by participation of staff members as tutors in two or more of these courses in the same or successive years.

Required Courses

First Year

Microscopic Anatomy and Development Selected concepts of fine structure, the mechanisms by which structure develops, differentiates and ages, and the genetic control of these mechanisms are presented in lectures to indicate a pattern of study and depth of analysis which the student can be expected to apply to the informal study of cells and tissues not formally presented in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research methods in phase, polarizing, fluorescence and electron microscopy, and in microtomy, cytochemistry, tissue culture, autoradiography, X-ray diffraction analysis, and electron probe are demonstrated. The functional and biochemical significance of fine structure is developed.

Gross Anatomy Regional anatomy is studied, principally through dissection of the human body. Supplementing this are prosections by instructors, tutorial group discussions, and radiographic and endoscopic demonstrations.

Neuroscience The gross and microscopic structure of the brain and spinal cord is taught in an inter-departmental course in neuroscience in cooperation with the Departments of Neurology and Physiology. Lectures correlate with structure, function, and clinical significance of the principal concepts of the nervous system. Opportunity is provided in laboratory for gross dissection of the preserved human brain and for the study of serial histological sections of the human brain in three different planes. The effects of stimulation and interruption of specific neural pathways are demonstrated in experimental animals.

Elective Options

Clinical Anatomy First trimester: eleven weeks. Unlimited enrollment. F. G. Girgis and R. C. Swan.

During a one-hour conference each week a patient will be presented whose case illustrates the application of anatomical concepts. Following each case presentation, the concepts will be discussed in depth.

Radiographic Anatomy First trimester: eleven weeks. Unlimited enrollment. G. Stassa.

A weekly conference demonstrating, with modern radiographic methods, regional and systemic structural and functional relations and their clinical application.

Graduate Genetics Seminar Course First and second semesters: thirty weeks. Unlimited enrollment. Special requisite: at least one course in formal genetics. A. Bearn, S. Litwin, and R. Norum (first semester); R. Bachvarova and Z. Harsanyi (second semester).

Fall 1977: Human Genetics
Spring 1978: Molecular Genetics

Clinical Anatomy of the Extremities and Back Second trimester: eleven weeks. Unlimited enrollment. F. G. Girgis, A. Inglis, M. Panio, P. Pellicci, G. Stassa.

A functionally and clinically oriented introduction to the extremities and back. Each week there will be a one-hour conference on radiographic anatomy, a one-hour clinical conference with case presentation, and a three-hour laboratory for dissection, supplemented with prosections. Offered jointly by the staffs of the Departments of Anatomy and Radiology and the Division of Orthopedics of the Department of Surgery.

Embryology First trimester: eleven weeks. Unlimited enrollment. R. Bachvarova.

A series of weekly lectures that cover development of the human embryo from fertilization through the appearance of the major organ systems. Basic principles of development derived from experimental analysis will be discussed.

Anesthesiology

Professors

J. F. Artusio, Jr., chairman; W. S. Howland, A. Van Poznak

Clinical Professors

B. E. Marbury, M. J. Topkins

Associate Professors

P. Goldiner, O. Schweizer

Clinical Associate Professors

H. L. Erlanger, S. Lynch, D. Tausig, J. McCormick

Clinical Assistant Professors

L. L. Balazs, R. G. Barile, I. Berlin, D. Borovac, G. G. Curtis, J. L. Fox, A. H. Goulet, A. F. Kass, L. J. Maggio, L. Da Graca Miranda, P. Nonkin, S. M. Rooney, R. A. Rossi, C. Sanger, J. Schwartz, D. Susman, M. Tjeuw, L. Turner, D. Vuckovic, F. Sun Yao, J. Weingram

Clinical Instructors

G. Balint, S. Gunasti, D. Jascott, I. Lin, R. Lin, E. L. Lobrin-Farcon, T. V. Miles, J. Nagy, R. C. Natoli, J.

Planner, A. N. Rachleff, J. P. Ragasa, S. J. Restituto, K. J. Rosenbaum, S. Rosenbaum, M. Schnapp, J. E. Shahmoon, H. Shifrin, L. D. Silver, A. E. Wightman

Fellows

R. Altschuler, R. G. Briones, G. C. Carlon, A. Cheng, A. Desai, B. Gelbard, H. Hwang, S. Jain, C. H. Kim, Y. S. Kim, W. Malloy, V. Malhotra, C. K. Ong, I. Pineda, J. Solanki, B. A. Spinelli, F. Towayer

Required Course

Third Year

Anesthesiology is taught during seminar-discussion periods. The subjects covered are: cardiac and respiratory resuscitation; the medical care of the surgical patient; inhalation therapy; and evaluation, diagnosis, and treatment of pain.

Elective Options

Second Year

The Department of Anesthesiology participates in the teaching of pharmacology. Anesthetic agents are considered, not only as depressants of the central nervous system, but also as illustrations of the general pharmacological phenomena of drug uptake and distribution. The department also assists in the teaching about drugs that affect respiratory mechanisms. It participates in lectures, laboratory demonstrations, and student seminars. During the summer between the second and third years, selected students are offered a preceptorship in anesthesiology under a program supported by the American Society of Anesthesiologists.

Fourth Year

A clinical or research program is offered by the department to fourth-year students. In the clinical program, the student is assigned to an attending anesthesiologist. His time is spent with the attending anesthesiologist, making preoperative visits, administering anesthesia, and in postoperative and recovery care. Emphasis is placed on respiratory, physiology, therapy, and resuscitation. Progressive participation and responsibility is given to the student. A research elective can be arranged either at The New York Hospital or Memorial Hospital for individual students.

Biochemistry

Professors

A. Meister, Israel Rogosin Professor of Biochemistry, chairman; R. H. Haschemeyer, A. S. Posner, J. R. Rachele, A. L. Rubin (surgery), R. L. Soffer (medicine), K. H. Stenzel (surgery)

Adjunct Professors

B. L. Horecker, C. -Y. Lai

Visiting Professor

R. L. Beamer

Associate Professors

E. M. Breslow, D. S. David (surgery), J. S. Goldstein, R. R. Riggio (surgery), S. S. Tate, D. Wellner, K. R. Woods

Adjunct Associate Professor

J. M. Manning

Visiting Associate Professors

A. K. N. Nandedkar, A. Novogrodsky

Assistant Professors

A. L. Boskey, J. S. Cheigh (surgery), J. S. Cornell, T. E. Duffy (neurology), G. F. Fairclough, J. D. Gass, H. Gilder (surgery), W. B. Rowe, E. T. Schubert (pediatrics), J. F. Sullivan (surgery), L. Tapia (surgery), R. P. White (surgery)

Adjunct Assistant Professor

P. P. Trotta

Instructors

J. Chami, A. J. L. Cooper

Research Associates

J. F. Betts, N. Blumenthal, C. E. Deutch, M. Fotino (surgery), T. Miyata (surgery), V. P. Wellner

Fellows

L. H. Byrd (surgery), J. M. Conroy, A. M. DeFabritus (surgery), K. B. Field (surgery), R. A. Fischman (surgery), O. W. Griffith, J. L. Hartley, S. J. Kim (surgery), M. J. Kleiner (surgery), S. L. Lundt, J. Montoliu (surgery), L. Oppenheimer, S. G. Powers, M. C. Rudy (surgery), J. R. Sterret (surgery), S. Sur, G. A. Thompson, J. M. Williamson

Assistants

D. S. Masters, J. R. W. Schuh, M. Shen, C.-L. Wang, E. Grau, J. MacGregor

Courses

Medical Biochemistry Offered during the first and second trimesters.

Designed for medical students. The chief concern is with the biochemical principles that are fundamental to medical problems. Basic biochemical information will be presented and integrated with selected nutritional and health problems of concern to physicians, by means of lectures, group conferences, and participation in clinical rounds.

First trimester: Chemical and physical properties of biomolecules, enzymology, and metabolism of carbohydrates, lipids, amino acids, and nucleic acids; associated clinical problems.

Second trimester: Greater emphasis on the metabolic aspects of biochemistry and the medical consequences of disturbances in intermediary metabolism; special topics in biochemistry that are relevant to current medical problems.

1. General Biochemistry (Biochemistry 2A and 2B)

Offered by the staff of the Field of Biochemistry, Medical College Division, and of the Biochemistry Unit, Sloan-Kettering Division. Fall trimester: M T Th F 2-3. Winter trimester: T Th F 2-3. E. Breslow, J. D. Gass, L. Kopelovich, and staff.

This is an introductory course designed to provide the student with a knowledge of the fundamentals of biochemistry and an appreciation of the molecular basis of biological phenomena. Graduate students in biochemistry are required to pass this course (or its equivalent) prior to pursuing advanced courses.

2. Advanced Biochemistry A graduate course in biochemistry is offered jointly by the faculties of the Medical College Division and the Sloan-Kettering Division. In each trimester, two lectures are given each week. It is not essential that students take the course in any particular sequence. The following subjects will be considered at an advanced level, with particular attention to contributions of recent research.

Winter trimester—Physical Biochemistry: Meth-
odology. R. S. Bockman and staff.

Spring trimester—Cellular Regulation and Control.
A. Bendich and staff.

3. Research in Biochemistry By arrangement with the chairman of the department.

4. Molecular Medicine Faculty members of the Department of Biochemistry participate in the Cornell University Medical College Program for Molecular Medicine. Information about this program may be obtained from the department.

Elective Options

First Year

General Biochemistry (Biochemistry 2A and 2B, see above) is offered as an elective course to medical students.

Fourth Year

Opportunity for biochemical research on a variety of topics is offered to medical students during their fourth-year program of study. The options available for 1977-78 are:

Neurophysin-hormone interaction (Dr. Breslow)

Protein-metal ion interactions (Dr. Breslow)

Serum lipoprotein variation and its role in disease (Dr. Fairclough)

Research on the lung surfactant system (Dr. Gilder)

Role of macromolecules and protein synthesis in the maturation of red blood cells (Dr. Goldstein)

Geometry and interactions among components in animal viruses (Dr. Haschemeyer)

Human brain enzymes (Dr. Meister)

X-ray diffraction study of bone (Dr. Posner, Dr. Betts, Dr. Boskey)

Infrared study of bone (Dr. Posner, Dr. Blumenthal)

The utilization of methionine analogues and homologues by wild and methionine-requiring strains of *neurospora crassa* (Dr. Rachele)

The role of immunological enhancement in allograft survival (Dr. Riggio)

Collagen as a biomaterial (Dr. Rubin)

Threonine deaminase (Dr. Wellner)

The isozymes of L-amino acid Oxidase (Dr. Wellner)

Structure of antibodies (Dr. Woods)

Molecular basis of the fibrinogen to fibrin transition (Dr. Woods)

For detailed description of these options and others available, the student is referred to the *Catalog of Electives*.

Medicine

Professors

C. L. Christian, acting chairman; D. Armstrong; A. G. Bearn, Stanton Griffis Distinguished Medical Professor, D. V. Becker, E. L. Becker, M.D. Bogdonoff, W. A. Briscoe, J. H. Burchenal, B. D. Clarkson, F. Daniels, Jr. (dermatology), R. L. Engle, Jr., R. A. Good, S. J. Hadley, P. C. Harpel, H. O. Heinemann, L. E. Hinkle, Jr., N. B. Javitt, A. Kappas, J. H. Laragh, Hilda Altschul Master Professor of Medicine; E. H. Luckey, A. J. Marcus, W. P. Laird Myers, R. L. Nachman, H. F. Oettgen, R. E. Peterson, G. G. Reader, Livingston Farrand Professor of Public Health; R. B. Roberts, A. L. Rubin, B. B. Saxena, L. Scherr, P. Sherlock, G. W. Siskind, R. L. Soffer, M. Sonenberg, K. H. Stenzel, L. Thomas, D. D. Thompson

Clinical Professors

J. A. Barondess, J. W. Dougherty (dermatology), M. Dworetzky (allergy), W. J. Eisenmenger, A. Feder, A. W. Feinberg, J. L. German, III, M. Horwith, B. H. Kean (tropical medicine), F. T. Kirkham, Jr., A. B. Ley, M. A. Payne, R. A. Rees Pritchett, R. T. Silver, H. Steinberg, D. P. Torre (dermatology)

Adjunct Professors

E. H. Ahrens, Jr., V. P. Dole, J. Hirsch, J. G. Hirsch, H. G. Kunkel, R. H. Palmer, D. E. Rogers, A. H. Samiy, M. Siniscalco

Associate Professors

M. H. Alderman, R. S. Benua, N. Brachfeld, M. Coleman, B. S. Danes, D. S. David, T. J. Degnan, E. E. Deschner, L. M. Drusin, K. D. G. Edwards, M. Gardy, E. L. Gottfried, S. J. Gulotta, R. W. Houde, J. R. Hurley, W. Insull, Jr., E. A. Jaffe, W. D. Johnson, Jr., T. C. Jones, L. J. Kagen, T. K. C. King, M. Lipkin,

S. D. Litwin, M. D. Lockshin, D. S. Lukas, J. B. Morrison, W. Nagler, P. E. Phillips, T. G. Pickering, M. J. Polley, M. M. Reidenberg, R. R. Riggio, S. S. Scheidt, J. E. Sealey, R. L. Sherman, M. E. Shils, J. K. Smith, P. E. Stokes, P. Vanamee, B. B. Weksler, M. E. Weksler, S. J. Winawer, C. W. Young

Clinical Associate Professors

S. Advocate, W. A. Anderson, L. I. Arditi, S. C. Atkinson, L. T. Barnes, C. A. Berntsen, R. T. Binford, Jr., E. L. Bodian, J. L. Brown, Jr., D. J. Cameron, W. N. Christenson, V. A. Cipollaro, H. E. Claremont, J. A. Covey, R. E. Eckardt, H. Erle, E. Ettinger, T. J. Fahey, Jr., J. T. Flynn, A. H. Freiman, D. L. Globus, J. M. Glynn, R. B. Golbey, H. Goldin, C. H. Goodrich, G. W. Gorham, E. J. Greenberg, K. O. Guthrie, Jr., L. L. Heimoff, R. A. Herrmann, R. Hochman, D. W. Hoskins, M. Isaacs, A. S. Jacobson, D. S. Kent, H. Klein, S. A. Kline, H. Koteen, M. Kurtz, C. S. LaMonte, B. J. Lee, III, R. D. Leeper, L. R. Lese, J. S. Lieberman, L. B. Lowe, Jr., N. M. Luger, N. T. Macris, D. Margouleff, K. Mayer, A. W. Mead, D. G. Miller, W. J. Noble, I. Nydick, L. H. Pederson, M. Perlmutter, F. S. Perrone, A. A. Pollack, J. Richard, E. A. Riley, W. C. Robbins, T. N. Roberts, I. Rosenfeld, N. Rosenthal, E. Rudd, R. Schaefer, E. Scheiner, R. E. Schneekloth, E. Schwartz, S. D. Shappell, C. Sheard, III, J. P. Smith, Jr., L. S. Sonkin, C. R. Steinberg, P. H. Stern, L. Strauss, M. Tulin, G. I. Wadler, L. A. Wallis, C. G. Weiman, H. S. Weiss, A. O. Wells, A. L. Winston, S. D. J. Yeh

Adjunct Associate Professors

P. J. Imperato, R. J. Winchester

Assistant Professors

K. E. Anderson, Z. A. Arlin, H. Z. Benjamin, K. J. Berenyi, P. A. Bluestone, R. Bockman, R. L. Braham, B. D. Brause, D. B. Case, J. P. Christodoulou, G. J. Darlington, P. C. Taylor Dickinson, A. Dimich, J. E. Franklin, Jr., T. S. Gee, E. A. Goidl, R. Green, S. Gupta, J. A. Hansen, M. B. Hayes, Y. Hirshaut, H.-C. Hsieh, J. L. Imperato, N. E. Kerneny, S. J. Kempin, Y. T. Kim, P. D. Kligfield, J. Klugler, B. Koziner, R. Kurtz, C. J. Lightdale, S. D. Lindo, J. A. Lopez-Ovejero, G. B. Magill, L. U. Mailloux, J. A. Markenson, A. Moore, R. T. Mossey, A. P. Niarchos, R. Norum, M. Ochoa, Jr., V. Padmanabhan, S. Paget, M. W. Pasmantier, J. Pindyck, C. M. Pinsky, M. R. Post, E. M. Rabellino, P. Rathnam, A. Rifkind, G. D. Ross, E. O. Rothschild, B. Safai, C. D. Saudek, F. P. Siegal, C. Singer, C. Smithen, M. C. Sykes, P. Tallos, A. Ullmann, V. P. Vinciguerra, M. A. Weber, C. F. Whitsett, R. E. Wittes, T. M. Woodcock, A. Yagoda, N. L. Young

Clinical Assistant Professors

R. S. Aaron, H. E. Abel, R. R. Abel, J. Applebaum, R. S. Ascheim, R. A. Asherson, R. A. Baer, R. J. Baliff, B. Benjamin, M. Berkun, H. Bienenstock, R. S. Bodaness, M. J. Bradford, R. G. Brayton, M. A. Clark, D. E. Cohen, I. R. Cohen, R. Collier, C. S. Connolly, M. W. Conovitz, F. P. Coombs, L. R. Corn, D. S. Cox,

J. Cramer, V. E. Currie, M. T. Diamond, C. H. Diehl, K. Dittmar, A. L. Edwards, A. N. Ehrlich, R. A. Eske-sen, C. T. Failmezger, G. A. Falk, S. Farber, J. A. Finkbeiner, D. H. Fogel, C. E. Forkner, Jr., R. D. Geller, J. S. Gitlin, D. Gluck, B. H. Goldberg, M. J. Goldstein, C. H. Goodsell, J. H. Gordon, R. V. Gorman, M. J. Hanley, J. M. Hayes, J. G. Hayes, M. L. Heil-braun, E. J. Henry, A. C. Hill, N. J. Isaacs, L. A. Janoff, V. A. Joy, S. Katz, I. Katka, R. J. Kaufman, L. Klein, M. J. Kreek, L. S. Kryle, M. J. Lacher, M. C. Larsen, M. G. Lewisohn, K. Link, J. W. Magill, M. R. Marciano, M. Masur, D. G. McKaba, G. A. McLeomore, Jr., A. E. Mirkinson, D. W. Molander, E. Muss, R. R. Nenner, M. Nydick, L. D. Pace, G. E. Paley, B. Park, R. E. Perkins, G. A. Piccione, H. B. Pollak, A. Potor, M. I. Rehmar, L. M. Reich, M. Rivelis, C. S. Rosen, A. S. Rosenberg, A. M. Ross, C. M. Samet, S. Schutzer, L. Schuyler, D. G. Schwartz, P. C. Schwartz, F. A. Seixas, G. M. Silverman, H. A. Sinclair, A. G. Snart, L. M. Soletsky, H. A. Solomon, R. W. Speir, F. H. Streuli, R. J. Tim-berger, P. G. Tolins, F. A. Tomao, L. B. Turner, L. Vinnick, L. J. Vorhaus, J. M. Weiss, J. H. Weiss, J. M. Wertheim, K. A. Whelan, M. L. Wiedman, M. J. Wolk, D. A. Jackson

Instructors

S. A. Atlas, C. P. Bredin, E. W. Cheng, E. Cvitkovic, J. I. Drayer, D. L. Gibbs, C. Jarowski, R. C. Johnson, R. L. Jones, T. Kiehn, P. Klass, B. J. Klyde, R. G. Lahita, R. L. Letcher, H. Masur, A. Morganti, H. W. Murray, J. E. Parillo, Jr., R. A. Pizzarello, P. M. Reiser, S. T. Silk, R. Stern, M. Wilson

Clinical Instructors

E. M. Aronow, J. R. Bakke, J. A. Belladonna, B. J. R. Blom, I. H. Blumenfeld, B. Delli Bovi, E. V. Calvelli, Y. A. Cestero, F. B. Chu, J. L. Cohen, M. L. Cohen, L. B. Cooperman, A. H. Covey, A. J. de Silva, C. P. Deal, Jr., E. J. Desser, D. J. Deutsch, J. C. Dreyfus, III, R. L. Erickson, E. R. Esakof, K. A. Ewing, A. Faga, J. I. Franco, A. Fried, M. H. Fried, W. Gershenson, M. Goldberg, J. B. Graff, S. E. Greenstein, P. A. Hamlin, K. S. Hurst, T. P. Jernigan, A. Kallman, S. L. Kellman, R. Kloogman, P. Kuslansky, A. Lantz, M. Levine, F. C. Losito, I. S. Lowenthal, P. L. Margulies, R. S. Martin, I. I. Mason, H. A. McManus, Jr., S. C. Mead, S. I. Michael, G. Miller, G. P. Mirrer, C. J. Modny, F. X. Moore, R. W. Nagler, D. J. Nicoll, S. Alice O'Shaughnessy, P. A. Orens, W. A. Peters, A. Philson, I. Pravda, S. M. Reiss, C. Ressler, S. Richmond, N. S. Ritter, A. M. Rochwarger, J. S. Rodman, B. M. Rosoff, M. Rubenstein, R. M. Sarda, A. Schrenzel, K. C. Shah, B. H. Shalette, M. G. Smilay, A. B. Spindler, E. L. Stannard, R. A. Stephens, S. Strick, T. L. Tuttle, R. J. Ulberg, P. W. Wagner, D. J. Wolf, S. S. Yormak

The program for the Department of Medicine is based on a number of cardinal premises: (1) There is a minimal core of information, skills, and understanding that must be assimilated regardless of the student's choice of career. (2) The essence of medicine is continuous and independent inquiry, which should be fostered in all students through investigative work at clinical or laboratory level. (3) The scope and limitations of medicine are best revealed through the

demands and responsibilities of patient care. (4) The need and privilege to provide sympathetic understanding and support to the patient and the patient's family are prerequisites to being a good physician.

It is evident that a large number of options are open to those pursuing a career in medicine; a diversity that includes clinical, specialty, laboratory, and administrative areas. This diversity enables most students to select an area of medicine that satisfies their individual interests, abilities, and needs. There is no preconceived image of an ideal graduate except that he or she be competent and content in the career choice, and be sufficiently well prepared to adapt to the changes that will occur in the practice of medicine in the future. The program provides the student with certain fundamental concepts and skills that will allow thoughtful exploration and evaluation of career possibilities.

The growth and complexity of medical knowledge is proceeding at an astonishing pace. The physician who relies excessively on intuition and empiricism runs the risk of early obsolescence. A more reasonable alternative is a systematic analysis that utilizes concepts developed in the basic sciences. This approach to the interpretation of symptoms, signs, and laboratory data has been termed the pathophysiology of disease. There are unique advantages to such an approach. Existing concepts are continually evaluated so that the outmoded may be discarded. This system quickly reveals to the student the limitations of existing knowledge and exposes those facets of medicine where logic may be of little value. The depth to which each student pursues the pathophysiologic approach will vary from a study of the physical and emotional factors responsible for illness in a single patient to an investigation of a disorder at a fundamental level. Clearly, this spirit of inquiry is essential to all areas of medicine. The program of the department is designed to provide the challenges and opportunities to develop this quality.

It is hoped that through their experiences, students will blend habit with critical analysis, scientific thought with empathy, and competence with humility.

Required Courses

First Year

Introduction to Medicine The transition period between the undergraduate and professional level may be a bewildering experience. The knowledge and understanding to be acquired appears, at times, to be overwhelming—often becoming an end in itself rather than recognized as the foundation of medicine. The purpose of this course is to provide the student with an overview of medicine in order to gain perspective of his or her initial efforts and feelings. The areas to be explored and examined include (1) the patient-physician relationship, (2) methods and principles of diagnosis, and (3) clinical application of the concepts and knowledge derived from the basic sciences. The student will be instructed in basic skills of clinical medicine and provided with the opportunity to examine patients.

Second Year

Instruction begins in the last trimester and consists of two coordinated courses.

Physical Diagnosis The course is an intensive introduction to the basic bedside clinical skills, i.e. the taking of a medical history and the performance of a physical examination, with emphasis on the anatomic and physiologic principles underlying the important symptoms and signs encountered in clinical medicine. Lectures and demonstrations, supplemented by extensive use of audiovisual and electronic aids, form the didactic basis of the course; special attention is directed to the medical interview and the approach to the incurable or dying patient. In addition, students are assigned in small groups to clinical tutors, with whom they refine their bedside skills in biweekly examination of inpatients under close tutorial supervision. Patient examinations are carried out at the Cornell cooperating hospitals: The New York Hospital, Memorial Hospital, and the North Shore University Hospital.

Pathophysiology The course is designed to link the basic sciences with clinical medicine by demonstrating how laboratory methods and information may be used in clinical practice. Each of the divisions of the department participates with presentations, including lectures and case studies, that are discussed in small groups. Laboratory exercises are employed in the hematology and renal sections to provide an understanding of analysis of blood and urine. The approaches used to determine the degree and extent of deranged function of organ systems in the context of their pathophysiology are developed.

Third Year

Clerkship Each student is assigned to one or more of the medical services of the Cornell cooperating hospitals for a period of eleven weeks. He or she is an integral member of a medical team which is responsible for the care of patients. The student obtains the patient's history, performs the physical examination and basic laboratory tests, and records the findings. The student's results and analysis of the clinical problems are reviewed and discussed with the house staff and in small student groups under the supervision of a tutor. The student actively participates in the continued care of the patient, in part to verify or alter his or her initial evaluation, but also to develop an appreciation of the unique relationship that exists between patient and physician. These activities are supplemented by seminars and by the large number of conferences and lectures regularly held by the department.

Elective Options

Over fifty electives are offered throughout the four years. This comprehensive program includes participation in laboratory or clinical research or, if desired, further opportunities for patient care. Each year the elective list is revised and can be found in the *Catalog of Electives*.

Microbiology

Professors

W. F. Scherer, chairman; W. M. O'Leary

Associate Professors

R. W. Dickerman, L. B. Senterfit, D. H. Sussdorf

Assistant Professors

Z. P. Harsanyi, M. E. Wiebe

Assistants

T. Binder, M. Davey, E. A. Emini, G. Karpinsky, D. J. Oral, F. Pruslin, P. Rao, C. D. Rothermel, D. Seuffert, D. Sherr, C. E. Swenson, S. Urmacher, J. Van Hamont, D. Wallace, T. Wlodkowski

Required Courses

Second Year

Microbiology and an Introduction to Infectious Diseases First and second trimesters. Laboratory work includes an introduction to the procedures used in studying microorganisms, various physical and biological manifestations of antigen-antibody reactions, a survey of the microbial flora of the upper respiratory tract of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, bacteria, rickettsiae, and viruses. The lectures are directed toward the development of basic concepts, particularly as they relate to microbial physiology, and host-parasite relationships, including immunologic mechanisms in infectious disease. Emphasized are the etiology, pathogenesis, epidemiology, and prevention of infectious disease. Special attention also is given to the immunological principles underlying hypersensitivity, autoimmunity tolerance, and rejection of transplants. Students also may carry out research in the Department of Microbiology under guidance of individual faculty.

Elective Options

Completion of Microbiology and an Introduction to Infectious Diseases (or its equivalent) is a desirable prerequisite for elective work in microbiology.

Research in Microbiology Offered all year. Can be done entirely in the Department of Microbiology or may involve another preclinical or clinical department. Hours to be arranged with faculty sponsor.

Sponsors:

- R. W. Dickerman: involvement of birds and mammals in the ecology of mosquito-transmitted viruses
- Z. Harsanyi: genetics of viruses; genetic control of enzyme structure; drug and chemically induced chromosomal aberrations; genetics of *Aspergillus nidulans*
- W. M. O'Leary: microbial cellular composition; exo- and endotoxin structure and function; mechanisms of pathogenesis; microbial lipids; antibiotic function

- W. F. Scherer: cell-virus relationship; virus virulence; host defense mechanisms; ecology and epidemiology of arboviruses, especially mosquito-borne encephalitis viruses of tropical North and Central America
- L. B. Senterfit: antigenic structure of mycoplasma; pathogenesis of respiratory viral and mycoplasmic disease; vaccine development; clinical microbiology
- D. H. Sussdorf: function of the thymus and related lymphoid tissues in development of immunocompetence; immunology of the athymic ('nude') mouse; immunologic factors in chemical carcinogenesis
- M. E. Wiebe: molecular virology; mechanism of virus replication, host cell response, viral interference, and viral virulence

Microbiology Seminar

Scheduled biweekly. Topics in microbiology and infectious diseases are presented by faculty and graduate students of the Department of Microbiology and by visiting scientists from other institutions.

Microbial Chemistry and Physiology Third Trimester. Two lectures and two laboratory periods weekly. Dr. O'Leary.

Lectures stress the growth and death of microorganisms, their chemical composition and subcellular structures, nutritional requirements, microbiological assay and auxotrophic mutants, energy metabolism, degradations and biosyntheses, the physiology of pathogenesis, and important microbial products. Laboratory sessions provide experience with large-scale culture and recovery of cells, synthetic media, microbiological assay, extraction of cellular constituents, respirometry, and studies of substrate utilization employing radioactive metabolites.

Advanced Immunology Cornell-Sloan-Kettering interdivisional course. Second and third trimesters, two lectures weekly; third trimester, two laboratories weekly. Dr. Sussdorf.

Lectures, discussions, and assigned readings cover properties of antigens and antibodies; mechanism of antibody- and cell-mediated immunity; complement and other amplifiers; immunologic injury; regulation of the immune response; genetics and immunology of transplants and tumors. Laboratory work includes the isolation, quantitation, and characterization of antibodies, critical measurement of antigen-antibody reactions, and the dynamics of the in vivo antibody response.

Advanced Virology Third trimester. Two lecture-seminars and laboratories weekly. Dr. Wiebe.

Presents modern concepts and techniques, including physical and chemical properties of viruses; structure-function relationships; viral genetics; viral morphogenesis; mechanisms of viral infections; viral oncology; epidemiology; slow viruses; newer infectious agents (viroids); and the interferon system.

Advanced Microbial Genetics Third trimester. One lecture weekly. Laboratory demonstrations. Dr. Harsanyi.

Examinations of selected concepts of molecular genetics using both prokaryotic and eukaryotic micro-

organisms as models. Topics include intra- and interchromosomal complementation, mitotic and meiotic recombination, genetic control mechanisms, gene conversion, polyploidy and aneuploidy, genetic interference, mechanisms of suppression, and polarity. Emphasis is given to the genetic methods available for studying hereditary material.

Advanced Diagnostic Microbiology Third trimester. Two lectures and two laboratories weekly. Dr. Senterfit.

Techniques of management and procedures used in a clinical microbiology laboratory. Emphasized are the isolation and rapid identification of organisms from various types of clinical specimens. Liberal use is made of clinical materials available through the diagnostic laboratories of The New York Hospital.

Clerkship in Diagnostic Microbiology Any trimester. Dr. Senterfit.

Training in diagnostic microbiology as it is practiced in a large hospital laboratory, using the facilities of the diagnostic microbiology laboratories of The New York Hospital.

Fourth Year

A variety of activities in study, research, and teaching is available to fourth-year students during their elective program of study. Included are:

Externship in Microbiology
Teaching of Microbiology
Research in Microbiology
Clerkship in Diagnostic Microbiology (Dr. Senterfit)
Advanced Immunology (Dr. Sussdorf)
Microbiology Seminar (Dr. Senterfit)
Microbial Chemistry and Physiology (Dr. O'Leary)
Advanced Diagnostic Microbiology (Dr. Senterfit)
Advanced Virology (Dr. Wiebe)
General Microbiology (Dr. Hutchinson and Dr. O'Leary)
Microbial Genetics (Dr. Harsanyi)

For detailed descriptions of these options, the student is referred to the *Catalog of Electives*.

Neurology

Professors

F. Plum, Anne Parris Titzell Professor of Neurology, chairman; F. H. McDowell, J. B. Posner, D. J. Reis, W. R. Shapiro

Adjunct Professors

J. B. Brierley, M. S. Gazzaniga

Associate Professors

H. R. Beresford, G. Birnbaum, I. B. Black, N. L. Chernik, T. E. Duffy, T. H. Joh, H. Kutt, P. S. Papavasiliou, H. deC. Peterson

Clinical Associate Professors

M. A. Green, T. C. Guthrie, G. H. Klingon, G. E. Solomon, P. Tsairis, P. Zweifach

Adjunct Associate Professor

M. Kumada

Research Associate Professor

J. Z. Ginos

Assistant Professors

J. C. Allen, M.D. Coughlin, K. E. Foley, R. W. Hamill, M. S. Horwich, D. E. Levy, M. A. Nathan, M. Olson, F. Petito, V. Pickel, R. W. Price, D. A. Rottenberg, D. F. Young

Clinical Assistant Professors

W. A. Camp, R. H. Coll, J. T. Kessler, I. D. Schlesinger, L. N. Travis, B. C. Wilson

Instructors

G. C. Ebers, M. L. Eisenstadt, R. F. Gledhill, M. C. Graves, J. A. Kessler, R. J. Leigh, M. Mori, V. Suryanarayan Murthy, D. H. Park, W. A. Pulsinelli, W. H. Reichert, J. I. Rubin, J. A. Schaefer, D. W. Snyder, W. T. Talman, G. F. Wooten, Jr.

The department has three responsibilities: patient care, teaching, and research. The faculty supervises the care of patients with neurological diseases at The New York Hospital, Memorial Hospital, the Hospital for Special Surgery, and the North Shore University Hospital. This rich clinical exposure and the rewards of providing care to patients from many geographic and social backgrounds are shared by students and residents. The research laboratories and programs of the department are located within the Medical College and at the several hospitals. These laboratories conduct both fundamental and clinical research, seeking the basic answers to neurological diseases and new ways to improve the delivery of treatment to patients. Research projects include the search for new chemicals to treat brain cancer, investigations into the mechanisms and treatment of brain tissue damage in stroke, the discovery and analysis of chemicals in the brain that cause and control rage and aggression, and a search for basic mechanisms in epilepsy.

Two goals guide the teaching of students. One is to learn diagnosis and treatment by a thorough knowledge of the physiology and biochemistry of the major neurological diseases. The other is to transmit an initial understanding of the brain as an adaptive organ regulating man's internal milieu and outward behavior. Formal teaching begins in the second year and continues thereafter.

Required Courses

Second Year

An introductory course in neurological diagnosis is offered in the third term, closely linked to the general

physical diagnosis course. Lectures and seminar presentations describe the physiological basis of the neurological examination and abnormal signs and symptoms. Each week under an instructor's guidance, students examine patients with neurological disease.

Third Year

A one-month clinical clerkship is spent on the neurological pavilion of either The New York Hospital or Memorial Hospital. Students perform the initial work-up of patients, participate in all rounds and conferences, and share in the care of patients under the close supervision of house staff and tutors. Extensive reading is encouraged in order to develop a comfortable knowledge about major neurological problems, and to gain insight into still unsolved problems where current research is making important contributions. Daily seminars in psychiatry continue throughout the clerkship, reinforcing in the student's mind the close relationships between psychological disorders and brain dysfunction.

Elective Options

A variety of electives in either clinical work or laboratory research is available to fourth-year students. Dr. Plum provides an advanced seminar in behavioral topics. Inpatient clerkships are available for whole-time work in neurology at Memorial Hospital and in clinical neurology at The New York Hospital and North Shore University Hospital. Dr. McDowell provides a varied outpatient elective that guarantees the student exposure to almost all the major neurological disorders. Laboratory or laboratory-clinical electives are available with almost any of the full-time faculty, all of whom are engaged in active research programs.

Obstetrics and Gynecology

Professors

F. Fuchs, Harold and Percy Uris Professor of Reproductive Biology, chairman; P. A. McF. Auld (perinatal medicine), J. M. Bedford (reproductive biology), S. J. Birnbaum, A. N. Fenton, E. E. Kramer, J. L. Lewis, Jr., B. B. Saxena (endocrinology), S. Silagi (genetics)

Clinical Professors

H. R. K. Barber, E. W. Davis, Jr., W. P. Given, E. A. Graber, G. G. Hawks, R. Landesman, R. A. Ruskin, G. Schaefer, W. J. Sweeney, III, H. J. Tatum

Associate Professors

G. W. Cooper, Jr. (reproductive biology), A.-R. Fuchs (reproductive biology), R. G. Harper (perinatal medicine), W. B. Jones, R. J. Young (reproductive biology)

Clinical Associate Professors

J. M. Astrachan, M. I. Buchman, D. J. Casper, W. F. Finn, B. M. Garfinkle, J. C. Greenwald, S. T. Horwitz, J. Mahoney, F. W. Martens, M. A. Platt, S. F. Ryan,

E. D. Schwartz, F. Silverman, E. T. Steadman, L. B. Tyrer, L. F. Vosburgh, R. E. Wieche

Visiting Associate Professor

W. L. Freedman

Assistant Professors

L. L. Cederqvist, M. Y. Dawood, S. Dittmar, G. Farahani, J. H. Freel, N. H. Lauersen, V. F. Mastrota, P. Rathnam, D. L. Rosenfeld, D. J. Rothe, A. Toth, I. A. Zervoudakis

Clinical Assistant Professors

N. K. Basile, A. Brockunier, Jr., R. M. Caplan, S. Coh, P. Concannon, J. G. Davis, R. J. Derman, V. Du-Vigneaud, Jr., A. J. Felice, B. Garfinkel, W. Gladstone, H. Guyer, E. Hakim-Elahi, R. E. Hardy, A. Heltai, D. F. James, R. E. Kaye, W. L. Kron, E. O. Kubec, B. D. Lecher, B. Nathanson, G. G. Panter, V. K. Pierce, Z. I. Saary, S. Siegel, S. Soichet, F. Surur, K. Vasudeva, W. D. Walden, V. Werden

Instructors

F. J. Browne, G. Feldman, J. Finkelstein, W. Kim, S. Leon, B. D. Ramaley, H. K. Sela, M. Silver

Clinical Instructors

S. L. Bednoff, A. T. Bozza, H. J. Brander, J. D'Urso, M. Eichler, N. Fidel, R. Fitzgerald, C. Hamrang, S. Kahner, D. J. Leahy, B. Lieberman, L. J. Lippert, L. J. Lissak, J. W. Malkary, P. Mazzarella, R. Melnick, E. K. C. Mok, W. B. Paley, J. I. Paris, A. S. Sherwin, P. Soffer, J. A. Spiegel, M. J. Strongin, B. Tisch, D. B. Weinstein, E. Weisfogel, J. Zaia

Research Associates

T. A. Calvelli, J. Heaney-Kieras, S. Weintraub

Fellows

M. Berrios, J. Chabora, S. Chudow, C. Cistola, M. Cozzens-Kessler, J. A. Forrest, Y. Fujiki, J. B. Haile, M. A. Harris, R. Herzog, E. I. Jacobson, J. S. Kim, H. Kraft, H. Marchbein, J. Marin, A. Plotnik, R. Puckett, J. Rosen, K. Schrottenboer, I. E. Schwab, S. Seidman, I. L. Spill, P. Viriyapanich, P. von-Oeyen, O. Ylikorkala, B. Zipkin

Required Courses

Second Year

Orientation and Introduction to Gynecological Examination

During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Films and models for training in pelvic examination are presented.

Third Year

Introduction to Clinical Obstetrics and Gynecology

Combines theoretical instruction with

practical work in obstetrics and gynecology. Each student will study in the Lying-in Hospital for a period of seven to eight weeks. The first week will consist of daily lectures and seminars covering the physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology, and diagnosis of diseases of the genital organs. During the remainder of the period, the student will act as a clinical assistant in the obstetrical and gynecological departments. This includes activities in clinics and in the labor and delivery suite. The student will participate in the prenatal care of patients and attend them in labor and delivery. Concomitant with this program, all students will attend the subcourses listed below:

Course I Obstetrical and Gynecological Pathology Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Monday 9 to 10:30 a.m.

Course II Obstetrics and Perinatal Medicine An overview of obstetrics is presented within the framework of the modern techniques of fetal supervision and care for the "high risk" patient. Monday 1 to 2:00 p.m.

Course III Gynecologic Oncology Instruction in malignant neoplastic diseases and their early recognition and the basic concepts of radiation therapy of malignant disease in the female generative tract. Monday 10:45 a.m. to 12 noon; Friday 9:00 to 10:15 a.m.

Course IV Reproductive Biology The endocrine factors of the normal menstrual cycle and of pregnancy and labor. Monday 2 to 4 p.m.

Departmental Staff Conferences and Rounds A weekly staff conference is held on Mondays from 4 to 5 p.m.

Elective Options

A full program of fourth-year electives is offered in the department, including advanced clinical training, work in specialized areas of obstetrics and gynecology, and a variety of opportunities to participate in ongoing laboratory research. These electives are listed and described in detail in the *Catalog of Electives*.

Ophthalmology

Clinical Professor

D. M. Shafer, acting chairman

Clinical Associate Professors

H. Katzin, I. H. Kaufman, P. L. Laino, H. A. Lincoff, W. L. Peretz, A. I. Turtz, P. Zweifach

Clinical Assistant Professors

S. Bloomfield, H. J. Breslin, T. D. Cherubini, E. F. Constantine, B. Curtin, L. S. Harris, R. Harrison,

D. B. Karlin, A. King, M. Lieberman, A. Mamelok, S. Veronneau

Instructors

R. Diorio, F. Mallen

Clinical Instructors

L. C. Gordonson, H.-Z. Lin, R. Muchnick, P. Odell, S. Packer, J. Schutz, M. Smithline, E. Weise

Required Courses

Second Year

Instruction in ophthalmology begins as part of physical diagnosis instruction in the third trimester of the second year with practical demonstrations and lectures in use of the ophthalmoscope. Emphasis is placed on technique and features of the normal fundus. Basic neuro-ophthalmology is included in this course.

Third Year

During the third year, the class is divided into eight groups that participate in six weekly afternoons of presentation, discussion, and actual pathological case examinations. Each session concentrates on one phase of clinical ophthalmology. The entire series offers instruction in the most frequently encountered diseases of the eye.

Elective Options

Fourth Year

Two fourth-year students per module can participate in the elective period. During their modules, they examine patients hospitalized for surgery and review the cases with attending ophthalmologists. The student then observes the actual surgery and attends teaching rounds with the resident and attending staff who present interesting and problem cases for detailed review and discussion.

Otorhinolaryngology

Professor

J. A. Moore, chairman

Clinical Professor

J. R. Williams

Clinical Associate Professors

W. M. Glass, J. M. Holman, G. C. Mueller

Clinical Assistant Professors

W. F. Flynn, S. R. Geller, S. Howe, K. F. Mattucci, N. J. Pastorek, W. F. Robbett, W. S. Schley, R. W. Selve, J. H. Seward

Instructors

Y. Ahmadi, M. Katona, J. Kim, R. J. Perrotta, M. Wiederkehr

Clinical Instructors

B. Campbell, E. Greenfield, I. Kho

Required Courses**Second Year**

Instruction begins in the third term of the second year. The class is divided into two groups. One session of one hour is provided in otorhinolaryngologic problems as part of the course in physical diagnosis.

Third Year

The third year is divided into four terms. In each term, eleven or twelve students spend five or six periods of two hours each in the otorhinolaryngology outpatient clinic. These sessions are held on Tuesday afternoons from 1-3 p.m. in the outpatient clinic. Students gain experience with patients who are being considered for surgical therapy. They do the workup on the patients, taking full histories and performing physical examinations on the new patients to whom they are assigned. The workup on each patient is presented to an attending otorhinolaryngologist. Informal lectures are given at the beginning of the two hour afternoon sessions. To supplement these informal lectures, interesting cases are selected and presented to the group for examination and informal discussion. Ambulatory-care patients and inpatients are used in the case presentations.

Elective Options**Fourth Year**

Clinical clerkships in otorhinolaryngology are offered to students in the fourth year in modules of seven or fourteen weeks. Full-time attendance is desirable. However, half-time attendance may be arranged at the discretion of the department head. During the clerkship, the student's time is divided between duty on the ward, in the otorhinolaryngology outpatient clinic, and in the operating room. The student takes part in the ward duties and makes ward rounds with the resident staff, and has the opportunity to observe various otorhinolaryngologic surgical procedures in the operating room. The student also attends the weekly and monthly conferences.

Prerequisite: courses in the second and third years. The advisers to students planning this fourth-year elective are Dr. James A. Moore and Dr. James M. Holman.

Pathology**Professors**

J. T. Ellis, chairman; C. G. Becker, P. J. Fitzgerald,

G. F. Gray, R. C. Mellors, C. R. Minick, G. E. Murphy, G. C. Poppensiek, C. A. Santos-Buch, L. Thomas

Clinical Professors

S. Gross, A. Kellner, E. E. Kramer, J. F. Seybolt

Adjunct Professors

J. B. Brierley, R. Perper, L. H. Sobin

Associate Professors

D. R. Alonso, P. G. Bullough, E. Gottfried, S. I. Hajdu, A. H. Huvos, P. H. Lieberman, M. R. Melamed, L. B. Senterfit, S. S. Sternberg, J. F. Woodruff

Clinical Associate Professors

A. S. Carlson, J. A. Mouradian, A. M. Prince, T. Robertson, C. Solomon, M. Susin

Assistant Professors

E. P. Bassett, N. L. Chernik, M. H. Clements, E. L. Coffey, R. A. Erlandson, E. S. Gloster, B. C. Horten, H. Kahn, M. Oka, C. K. Petito, P. P. Rosen, L. R. Sharer, T. Sun, P. S. Symchych, C. W. Watson, C. F. Wolf, J. M. Woodruff

Instructor

A. R. Belson

Fellows

F. Allen, M. L. Alonso, S. Chasko, A. Cubilla, A. Firpo, G. Gottlieb, W. Harrison, M. King, M. Litrenta, P. Peterson, L. Rankin, M. Schwartz, G. Seligson, I. Wanless

Research Fellow

H. Ueno

Research Associate

T. Dubin

Assistant in Pathology

J. Bancroft

Facilities

The Department of Pathology occupies two floors of the central part of the College building, located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor where the autopsy room and demonstration room for pathological anatomy are located. Classrooms for microscopy are situated on the second floor. The third and fourth floors also contain unit laboratories for staff members and graduate students and for technical preparation. Animal quarters and facilities for experimental work are on the fifth and seventh floors.

The postmortem service of The New York Hospital, Hospital for Special Surgery, Rockefeller Hospital, and the Westchester Division affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies at The New York Hospital have been preserved since 1851, and, in recent years, protocols and microscopic slides have been carefully indexed and filed.

Required Courses

Second Year

General and Systemic Pathology First and second terms of the second year. Professor Ellis and staff.

Gross and histological lesions are studied and their pathogenesis and correlation with disturbed function considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with cell injury, inflammation, and repairs. It then proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systemic pathology, including an introduction to neuropathology.

Clinical Pathological Conferences These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

Elective Courses

Second Year

During the spring term, time is used for elective courses in pathology for research or for independent study. Electives are offered in postmortem pathology, cardiovascular pathology, cytopathology, forensic pathology, pathology of the gastrointestinal tract, laboratory medicine, neuropathology, oral pathology, pediatric pathology, pathology of renal disease and pathology in surgery.

Fourth Year

The following electives are offered: surgical pathology, cytology, forensic pathology, musculoskeletal pathology, neuropathology, pediatric pathology, obstetrical and gynecological pathology, renal pathology, cardiac pathology, anatomic pathology, computer application in pathology, and laboratory medicine. Please see *Catalogue of Electives* for description of courses, prerequisites, times, and instructors.

Pediatrics

Professors

W. W. McCrory, chairman; P. A. Auld, K. H. Ehlers, M. A. Engle, F. Lifshitz, R. A. Good, A. R. Levin, J. E. Lewy, D. R. Miller, M. L. Murphy, M. I. New, M. Silverberg

Clinical Professors

H. P. Goldberg, J. German, L. Salk, A. Scherzer

Adjunct Professor

S. Ulick

Associate Professors

R. G. Harper, M. C. Heagarty, L. Helson, M. W. Hiltgartner, L. Katkin, A. N. Krauss, L. Levine, W. N. Lim, H. deC. Peterson, J. C. Ribble, G. Rosen, M. Shibuya, E. M. Smithwick, C. T. Tan, R. Wapnir

Clinical Associate Professors

F. H. Allen, Jr., B. S. Ashe, R. R. Bass, C. H. Bauer, L. Charash, J. G. Davis, L. I. Ehrlich, B. L. Genson, R. M. Greenwald, M. T. Grossi, J. Q. Haralambie, A. C. Hoffman, I. Mauss, V. C. Mitty, R. F. Notterman, M. Orange, V. E. Pomeranz, I. Rappaport, S. F. Redo, D. I. Smith, G. E. Solomon

Adjunct Associate Professor

H. Koenig

Assistant Professors

T. Boland, P. Brill, M. Chandra, A. E. Currimbhoy, W. Frayer, F. Ghavimi, J. H. Graziano, H. Hagbin, H. Huebner, S. Isaacson, A. A. Klein, U. Lavy, R. I. Lopez, D. J. Louick, A. Markenson, M. McVicar, R. J. O'Reilly, B. E. Peterson, S. E. Read, M. J. Reitman, P. Saenger, S. Schechner, E. T. Schubert, M. M. Sokal, C. Sia, P. Steiner, N. W. Sternberg, S. Teichberg, T. A. Vandersall, P. H. Winchester

Clinical Assistant Professors

P. Axel, O. E. Billo, M. Boris, R. M. Brilliant, M. C. Buchanan, W. T. Carpenter, Jr., B. S. Caterinichio, J. N. DeHoff, A. DeMayo, J. Easton, D. B. Gareen, M. Gilbert, M. Harwin, P. R. Joseph, S. Kaplan, M. Levy, L. B. Lowe, Jr., A. J. Mistretta, K. Neumann, A. P. Nicosia, B. Nitzberg, S. D. Olicker, O. Pitkin, R. H. Reiman, M. S. Rosh, A. J. Salisbury, W. T. Seed, J. Shein, M. A. Shinefield, E. J. Siegal, M. Small, J. Soloway, G. Spielman, J. P. Viscardi, R. Waldbaum, B. X. Weinstein, H. I. Wolfe, S. S. Zipser

Instructors

W. Brown, Jr., A. C. Giardina, P. Landau, M. Olson, G. Silverberg, W. W. Price

Clinical Instructors

H. E. Bradley, S. Cruz, G. T. Edis, J. Goldstein, E. Gould, J. Goldstein, A. Greenberg, A. C. Holtzman, G. Izzo, R. L. Kandell, N. Kardon, A. Laciou-Petrucelli, R. H. Lieberman, E. McCarthy, F. N. Medici, I. Rayman, D. R. Skog, B. S. Slater, J. Steckelman, R. Stein, M. Tsai, H. L. Tsang, D. Zigelman

Research Associates

B. Granich, P. Klass

Fellows

C. Acharyakosol, S. Ajl, A. Alikapala, B. Altura, P. Baker, M. Bestak, A. Brem, K. Bromberg, N. Brown, B. I. Caparros, N. Carassco, S. Charlamb, D. Charles, M. Cooper, M. Cordoba, C. H. Feldman, R. Fried, P. Fort, W. Gerba, M. Kaminsky, A. Kapadia, E. Khuri, Y. Kim, E. LaGamma, E. Levine, L. Linday, J. O. Loughlin, K. Loughlin, J. Lukito, J. Marcus, R. McVie, P. Meyer, B. Miller, J. Mor, C. Mosende, J. Nyers, S. Oberfield, S. Pang, A. Parekh, E. Patel, N. Pawlowski, P. Pisciotto, H. Pniewski, D. Price, S. R. Ravi, C. V. R. Reddy, S. Rosler, E. Santos, M. Scher, J. Schlessel, C. Sekaron

Required Clerkship

Third Year

The major undergraduate teaching effort of the Department of Pediatrics occurs in the third year. In a period of seven and one-half weeks, a required program provides a core of pediatrics, as an overview of the subject is presented. The year is divided into six modules. During the module, the student is assigned to a pavilion service for three and one-half weeks at Lenox Hill Hospital Pediatric Service, and the New-born and Neonatal Intensive Care service for approximately two weeks. Throughout the rotation, students rotate in the Pediatric Outpatient Department and in the Emergency Unit. Both general pediatric problems and those of interest to the subspecialties are encountered when the student is on the Pavilion Service. Three or four students from each module spend their entire pediatrics clerkship at North Shore University Hospital. This rotation includes inpatient and outpatient experiences as well as time spent in the Neonatal Intensive Care Unit. During the third year experience, the student acts as a clinical clerk. Each admission is assigned to a student who does a history, physical examination, and formulates a differential diagnosis. The plan for the patient is developed by the student, intern, and senior resident. An attending physician supervises the team. Students are expected to follow their patients closely during the admission and to write pertinent progress notes. A number of formal teaching seminars are scheduled, highlighting various aspects of general pediatrics and the subspecialties. In addition, the student participates in daily attending rounds. The regularly scheduled rounds and teaching sessions of the Department of Pediatrics are part of the curriculum for the third year. The students are assigned to a tutor in groups of six or seven. Tutors are members of the full-time staff or the attending staff.

Elective Options

First Year

Elective courses are listed in the *Catalog of Electives*.

Second Year

Elective courses are listed in the *Catalog of Electives*.

Fourth Year

The department offers a variety of clinical pediatric electives encompassing general and subspecialty clinic outpatient activities at The New York Hospital, and combined inpatient and outpatient activities at The New York Hospital, Hospital for Special Surgery, Memorial Hospital, and North Shore University Hospital. Other electives are offered by subspecialty department heads in programs with either clinical, research, or combined clinical and research emphasis. Elective courses are listed in the *Catalog of Electives*.

Pharmacology

Professors

W. F. Riker, Jr., chairman; W. W. Y. Chan, A. Kappas, R. Levi, M. Okamoto, M. Reidenberg, A. Van Poznak

Clinical Professor

A. Shapiro

Adjunct Professors

J. J. Burns, E. J. Cafruny

Associate Professors

R. W. Houde, C. Inturrisi, H. Kutt

Adjunct Associate Professors

B. A. Berkowitz, E. Grunberg

Assistant Professors

T. Baker, D. Drayer, A. Rifkind, H. J. Rose

Clinical Assistant Professors

J. Franklin, J. Graziano

Adjunct Assistant Professors

K. E. Anderson, D. M. Benjamin

Visiting Assistant Professor

A. Sastre

Instructors

R. Kaiko, J. Romankiewicz, J. Zavec

Research Associate

S. Flor

Research Fellows

N. Boisse, E. Hall, B. Jones, C. Lee, M. Nozaki

Lecturer

H. S. Carlin

Required Course

Second Year

Basic Course Lectures, demonstrations, conferences, and clinical sessions. A major aim is to teach how selectivity of drug action is determined by pharmacologic principles. Emphasis is placed, therefore, on the application of pharmacologic principles to the understanding and evaluation of drug actions. In turn, the student is provided with a scientific basis for a rational approach to drug therapy. Prototype drugs considered systematically serve to illustrate the pharmacologic characteristics of the important drug classes.

Elective Options

Second Year; Fourth Year

In both the second- and fourth-year elective periods, opportunities are available to pursue supervised laboratory and/or clinical studies in neuropharmacology, cardiovascular pharmacology, endocrine pharmacology, renal pharmacology, clinical pharmacology, drug dependency, analgesic pharmacology, and drug metabolism. (See *Catalog of Electives*.)

Physiology and Biophysics

Professors

E. E. Windhager, chairman; B. Grafstein, R. L. Greif

Clinical Professor

W. A. Briscoe

Associate Professors

S. Baruch, C. Fell, T. Maack, A. Taylor

Clinical Associate Professors

T. K. C. King, A. N. Krauss

Visiting Associate Professor

E. Leal-Pinto

Assistant Professors

O. S. Andersen, L. S. Costanzo, B. H. Ewald, D. Gardner, C. O. Lee, C. Liebow, I. McQuarrie

Clinical Assistant Professor

V. E. Sealey

Research Associates

J. F. Figueiredo, P. A. Friedman, O. Gutierrez, S. T. Kau, N. Lanners, J. Procopio

Instruction in physiology and biophysics is concentrated in the second and third terms of the first

year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences. The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the field of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and The New York Hospital.

Required Courses

First Year

Second Term. Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood circulation, respiration, and gastrointestinal function.

Third Term. Laboratory work on all phases of physiology and biophysics, including applications of radioisotope methods to the study of body function. Conferences are devoted largely to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and the kidney. Laboratory exercises one full day each week.

Elective Options

A seminar course in topics in biophysics and one in fluid and electrolyte balance are offered to selected students during their second-year elective time. An opportunity is offered to not more than five students during their second-year elective period to participate as laboratory instructors in physiology. Research work for medical students during second- and fourth-year elective periods, and for members of any class during summer vacation periods, will be arranged on consultation with members of the department.

Psychiatry

Professors

R. Michels, Barklie McKee Henry Professor of Psychiatry, chairman; A. M. Cooper, W. A. Frosch, S. Goldstone (psychology), L. E. Hinkle, Jr., H. F. Hunt (psychology), O. F. Kernberg, R. N. Kohl, W. T. Lhamon, D. J. Reis (neurology), R. Schafer (psychology), T. Shapiro, G. P. Smith

Clinical Professors

S. S. Asch, E. T. Carlson, H. E. Daniells, S. L. Feder, S. Gaylin, J. F. Masterson, Jr., L. Salk (psychology), A. K. Shapiro

Adjunct Professors

N. Dain (history), J. T. English, S. Rettig (psychology), W. N. Schoenfeld (psychology), O. A. Will, Jr.

Associate Professors

M. D. Clayson (psychology), J. L. Curtis, F. Schwartz (psychology), J. A. Sechzer (psychology), D. N. Stern, P. E. Stokes, J. A. Talbott

Clinical Associate Professors

J. M. Astrachan, H. H. Barten, S. F. Bauer, H. R. Blank, H. Bolocan, E. Dulit, J. H. Egan, H. Fensterheim (psychology), B. Fisher (psychology), F. F. Flach, I. B. Harrison, L. J. Hatterer, T. F. Henley, P. T. Janulis, H. S. Kaplan, A. Kiev, L. G. Laufer, A. B. Lewis, Jr., E. Y. Liang, E. L. Lipton, L. Loeb, W. V. Lulow, R. C. Mastrovito, J. R. McCartney, A. A. McLean, W. A. Myers, E. L. Pinney, Jr., J. M. Quen, R. A. Ravich, J. S. Schomer, J. H. Spencer, Jr., T. G. Stauffer, M. H. Stone, L. R. Straub, J. S. Tamerin, T. A. Vandersall, M. Viederman, A. D. Weiner, P. G. Wilson, H. S. Wright

Adjunct Associate Professors

W. Sencer, C. Winkelstein

Assistant Professors

B. L. Ballard, J. Blum (psychology), T. B. Boland (psychology), J. F. Clarkin (psychology), J. F. Crow, S. C. Ettenson, A. J. Frances, R. J. Frances, J. G. Gibbs, Jr., R. K. Goodman (social work), R. A. Gross, F. J. Hamilton, Jr., J. A. Haycox, H. Huebner, J. H. Kocsis, K. W. Lieberman (biochemistry), A. W. Loranger (psychology), D. J. Louick (psychology), M. R. Mattson, S. G. Mortati, H. G. Nurnberg, S. W. Perry, III, S. Reich (psychology), A. H. Richmond (social work), L. H. Rockland, G. H. Rusk, M. H. Sacks, M. A. Schwartz, E. E. Seelye, C. A. Shamoian, S. E. Stearns

Clinical Assistant Professors

E. T. Adelson, A. A. Anderson, G. A. Anderson, R. Ascher, R. D. Baker (surgery), J. E. Baxter (surgery), M. Beldoch (psychology), M. B. Blitz, M. Breitman (psychology), P. M. Bromberg (psychology), J. Bronner-Huszar, J. W. Brown, B. Buchsbaum (psychology), J. Char, E. H. Church, C. J. Clark, H. N. Cooper, E. G. Dabbs, L. A. Downs, T. L. Doyle, Jr., S. C. Draghi, A. Dupuis, S. R. Edelson, G. Faretra, R. B. Fath (medicine), M. F. Fleetwood, R. J. Foraste, M. Fredland, E. D. Freeman, L. Friedman, M. P. Frogel, V. Fromberg, R. I. Ganeles, E. H. Gerchick, A. B. Gistrak, R. Glass, R. S. Grayson, S. Gruber, D. N. Hertz, R. K. Hill, R. Hirsch, F. D. Kane, S. E. Kapel, A. I. Kaplan, N. L. Kaplan, M. G. Karmason,

M. D. Kerr, H. A. Kim, A. B. Landolt, R. F. Lax (psychology), N. Lebowitz, R. E. Lee, H. J. Lefkowitz, E. A. Lerner (psychology), D. Y. Levine, E. Levy, D. Lieberman, S. Lituchy, J. N. Loomis, A. S. Maerov, J. F. McGrath, L. C. Miller, H. H. Moorhead, L. Moss, A. D. Nahas, J. Nahmias, W. Nathan, E. Nersessian, A. Newman, R. Nickerson, H. Nunberg, J. D. O'Brien, B. E. O'Connell, R. A. O'Connell, A. K. Offit, S. J. Orloff, W. Overholser, E. R. Ranzenhofer, M. M. Rick (psychology), S. Rosenbaum, G. Samios, C. S. Schaffer, M.-L. Schoelly, M. A. Selzer, D. A. Shapiro, E. R. Singer, D. E. Sobel, I. Sternschein, J. J. Stine, N. Straker, R. Suchinsky, J. D. Sullivan, G. M. Warner, M. J. Welch, W. M. Weisner, D. Weitzner, E. Wilson, Jr., M. C. Winestine (psychology), M. H. Witkin (psychology)

Adjunct Assistant Professors

J. L. Berg, D. Birger, S. J. Coen, H. Davidoff-Hirsch, Z. E. Dziewanowska, S. Eisenman, S. Feder, A. K. Frankel, M. G. Hart, A. R. Joyce, H. D. Kachalsky, R. S. Liebert, B. P. Lipton, R. B. Mencher, I. Mohacsy, G. Nachumi, G. Natchez, S. S. Pazner, D. B. Robbins, W. Rosenthal, C. Schmais (dance therapy), E. W. Shelden, B. L. Singer, J. L. Stamm, A. Tornuscuolo, N. Weiss

Instructors

R. W. Austrian (psychology), M. Barberie, J. Chapin, W. Eckerd, J. P. Gerring, M. M. Gilmore, E. Goldberg (psychology), D. Harlam, J. Kerman, H. Koenigsberg, B. J. Lasley (biochemistry), A. Malter, H. Owens, M. M. Peskin, T. Sacken, R. Santulli, M. L. Teitelbaum, J. Tolchin, G. Vintas

Clinical Instructors

N. F. Berk, G. Brownstone, R. D. Bruun, J. J. Cavanagh, R. P. Cohen, S. Constantinou, L. B. de Alvarado, M. V. Di Gangi, C. B. Diamond, C. Diaz-Matos, E. Einbinder, A. Eisen, K. Falk, S. Feinstein, G. I. Fogel, M. J. Gerson, S. Golub, S. Harris, B. Hogan, G. D. Igel, M. Z. Iqbal, R. J. Kaplan, R. Klein, S. Kramer, M. S. Kroop, P. A. Levi, M. Levine, G. L. Levitt, A. N. Looker, E. L. Macrae, J. Maze, J. G. Mendel, H. Mendelson, D. B. Nagel, L. M. Najarian, A. Nucci, D. J. O'Connell, M. A. Perelman, V. R. Piskacek, I. Potkewitz, J. Praver, A. Radomski, C. A. Reiner, R. L. Roth, M. G. Rothenberg, J. W. Schein, R. M. Schoen, M. Schwab, Z. Skolnik, N. Slavinska-Holy (psychology), M. Spital, H. Stern, R. T. Symons, L. Tallal, M. H. Tamaroff (psychology), S. G. Traube, K. F. Tucker, T. Van Allen, H. Weinberg, J. V. Weiss, S. H. Wells, M. Zimmerman

Required Courses**First Year, First Trimester****Part I: The Behavioral Science of the Clinical Situation**

These five meetings are the initial exposure to psychiatry. Several central psychological-behavioral phenomena will be discussed: motivation; thought and language; emotion; perception; and

cognition; and attachment. Each will be approached from biological, developmental, and clinical viewpoints. An attempt will be made to integrate an understanding of these phenomena with the material presented in Part II.

Part II: Introduction to Human Sexuality Psychobiological aspects of human sexuality, including anatomical, endocrine, neurophysiologic, and behavioral components of sexuality are discussed, emphasizing the complex unity of human behavior in health and illness.

First Year, Third Trimester

Psychological Aspects of Physical Illness Psychological processes and reactions related to physical illness are discussed as they occur in various patient populations (children, adults, elderly, different ethnic groups, the patient's family), and in a variety of physical illnesses. The physician's role in identifying, understanding, and responding appropriately to a physically ill patient's emotional state is elucidated. Basic psychodynamic mechanisms and interview methods are taught. Following each lecture, the students divide into small groups to discuss the lecture and each student interviews, under supervision, a patient whose physical illness or emotional reactions relate to the preceding lecture. These supervised interviews will also emphasize methods of observation and relating to patients.

Second Year

Psychopathology Major psychiatric disorders are discussed in terms of clinical features, diagnosis, etiology, and treatment. Following each lecture, small groups of students, under supervision, interview patients at the Payne Whitney Psychiatric Clinic. Emphasis is on interviewing methods relating to patients and demonstration of psychopathology.

Third Year

Clinical Psychiatry Clerkship The psychiatric clerkship is a four-week rotation. Students are assigned either to the Payne Whitney Clinic or to the Westchester Division of The New York Hospital-Cornell Medical Center. At both hospitals, clerks are assigned to acute, short-term inpatient units designed to provide medical students the opportunity for major responsibilities in the treatment and evaluation of selected patients. Students are supervised in this work by senior residents, a full-time faculty attending, and senior faculty tutors. Students also work with the families of inpatients and participate in all ward activities. Outpatient experiences with adults and children also are provided. Readings and videotapes of typical psychiatric syndromes are used to supplement the direct clinical experiences.

Elective Options

First and Second Years

Electives are available in many areas of psychiatry, including research, patient evaluation and treatment,

family studies, group dynamics, death and dying, psychobiology, psychiatric principles of general medical care, and psychoanalysis and literature. In selected instances, a student may treat a psychiatric patient, with supervision, for one to four years. Some stipends are available for summer study. A full listing is available in the *Catalog of Electives*.

Fourth Year

Clerkships and subinternships in inpatient and/or outpatient psychiatry—both adult and child—offer extensive opportunities to learn diagnosis and treatment of psychiatric patients by assuming direct responsibility, under supervision, for patient care. Electives are also available in other aspects of psychiatry: research, liaison, social and community psychiatry, long-term psychotherapy, etc. A special effort has been made to provide relevant clinical psychiatric electives in pediatrics, surgery, family practice, and internal medicine for students who do not plan a career in psychiatry. A complete listing is available in the *Catalog of Electives*.

Public Health

Professors

G. G. Reader, Livingston Farrand Professor of Public Health, chairman; F. Daniels, Jr. (dermatology), R. L. Engle, Jr., M. E. W. Goss (sociology), D. Schottenfeld

Clinical Professors

E. J. Cassell, B. H. Kean (tropical medicine)

Adjunct Professors

B. J. Flehinger (biostatistics), W. R. Lynn (health systems analysis)

Visiting Professors

P. D. Marsden, W. F. May

Associate Professors

M. H. Alderman, L. M. Drusin, T. C. Jones, V. Mike (biostatistics), A. L. Scherzer

Clinical Associate Professors

C. A. Berntsen, L. L. Heimoff, S. A. L. Howe, P. J. Imperato, F. T. Kirkham, Jr., E. G. McCarthy, Jr., D. G. Miller, R. B. Millman, F. A. Seixas

Adjunct Associate Professor

M. D. Hyman

Assistant Professors

J. F. Haas, D. Schwartz (nursing), A. Ullman (social work), G. I. Wadler

Clinical Assistant Professors

R. A. Berman, G. Bondi, G. L. Hobby, J. S. Lehman, Jr., C. E. Stevens

Adjunct Assistant Professor

W. Loery

Clinical Instructors

E. T. Khuri, C. H. Steinmetz

Research Associates

M. L. Finkel, D. W. Gordon, C. M. Hamill, R. C. Oliver, R. Rubenstein, L. Skopek

Research Fellows

R. S. Brody, N. F. McKenzie, J. M. J. Quan

Research Assistants

M. I. Auerbach, T. K. Davis, S. T. Gershman, M. McCarty, M. P. Middleman, S. Tam, M. J. Weisel

Teaching Associates

G. J. Fierstein, L. Glass, M. Hickerson

Lecturer

J. C. Seed

Teaching in the Department of Public Health focuses on problems of disease, disease control, and health behavior in human groups and communities. Society, rather than the individual, is the "patient." Major teaching aims of the department include increasing the student's understanding of the spread and control of disease in groups of people, of public health problems and potential solutions in industrialized societies, and of the significant environmental hazards to health that people have faced. To a considerable extent, teaching involves study of existing and emerging disease problems and the ways they are shaped by the multiple interrelations of heredity, culture, social relationships, health care, and the physical and biological environment. Methods of study and analysis used in epidemiology and biostatistics are emphasized. Because its concern is with the health of people in the aggregate, the department also has the responsibility for maintaining continuing examination of the effectiveness of various systems of health care delivery.

Required Courses

First Year

Social Determinants of Health and Disease This is part of the first-year course in Introductory Medicine and consists of two hours each Wednesday afternoon during the second trimester. It is aimed at orienting the student to the societal context in which illness occurs and the role of the physician and other health

professionals in coping with disease problems. Lectures and small group seminars. Coordinator, Dr. Millman.

Health Care Systems This is also part of the first-year course in Introductory Medicine and consists of one lecture hour each Tuesday during the third trimester. The course provides an introductory analysis of existing systems of health care in the United States and abroad, including examination of available health manpower, the organization of medical practice and its evaluation, facilities for inpatient and outpatient care in relation to community and national needs, methods of funding health care, the role of politics in health care planning, and proposals for modification of current systems. Coordinators, Dr. Reader, Dr. Goss.

Second Year

Introduction to Epidemiology During the second trimester, students learn about the epidemiologic method that is concerned with the distribution and causal determinants of diseases in man. By determining the attributes of high-risk groups, the epidemiologic method contributes to the primary prevention and earlier detection of disease. The initial lectures review the important indices of disease frequency, design of retrospective (case history) and prospective (cohort) studies, and the derivation of relative and attributable risk. These fundamentals are then illustrated by reviewing selected communicable and chronic degenerative diseases that are a major source of mortality and disability in our society. Dr. Schottenfeld.

Introduction to Biostatistics This course consists of a series of ten one-hour lectures aimed at giving the student a brief introduction to the basic concepts of probability and classical statistics, and the major statistical techniques generally encountered in the medical literature. Methods for collecting and summarizing clinical data are discussed, with emphasis on the design of controlled therapeutic trials. Students have the opportunity to learn how to solve statistical problems using a computer terminal. An exemption test is available for anyone with previous training in statistics. Tuesdays, 2-3 p.m., second trimester. Dr. Miké.

Parasitology The principal emphasis in this course is on disease caused by the larger parasites that are particularly prevalent in so-called economically underdeveloped areas. The course starts with the study of the host-parasite reaction as it is considered in microbiology and pathology and broadens out to include macroscopic parasites. Thus, although the initial and major emphasis of the course is on microscopy, it also serves to introduce the student to the main avenues for the study of diseases in man—clinical medicine and epidemiology. The important larger parasites of man are considered: the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Prevention and control of human parasitic diseases are given consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used

to illustrate the laboratory exercises and the lectures. Each Monday, Wednesday and Friday during the latter part of the second trimester, a lecture or demonstration is presented from 2-3 p.m. The laboratory exercises are carried on from 3-5 p.m. Dr. Kean, Dr. Jones, assisted by Dr. Marsden.

Third Year

Public Health and Community Medicine The third-year course in public health consists of morning field trips followed by afternoon seminars on eight consecutive Fridays during the term. The exercises are devoted to field experience and literature review, and discussion of major topics in public health as they relate to a metropolitan area. The teaching is conducted with groups of fifteen students and an instructor. Coordinator: Dr. Drusin.

Elective Options

Health Economics The delivery of health care is examined as an economic activity. Economic theory provides the basis for studying the health industry and national health insurance. Topics considered include the characteristics of health and medical services that distinguish the health industry, the implications of these distinctive characteristics for the competitive market system as a mechanism for delivering health services to the consumer for the manpower crises, rising costs, and forms of payment to hospitals and physicians including Medicare and prepaid insurance. The course includes elective readings and assignments. Second year, hours to be arranged. Dr. McCarthy.

Biostatistics I; Introduction to Statistical Reasoning It is the aim of this course to help participants gain some insight into the theory underlying a probabilistic approach to the treatment of observational or experimental data, and to acquaint them with the most basic techniques of statistical analysis. (Any first- or second-year medical student completing this course will be exempted from Introduction to Biostatistics.) Prerequisite: elementary algebra. Two one-hour lectures per week; first trimester. Dr. Miké and staff.

Biostatistics II: Methods of Statistical Science Application of concepts introduced in Biostatistics I to the fields of experimental design, curve fitting, and analysis of count data. Prerequisite: Biostatistics I or equivalent. Two one-hour lectures per week; second trimester. Dr. Miké and staff.

Evaluation of Quality Medical Care In this seminar, current approaches to evaluating the quality of medical care are examined, as are studies dealing with individual and organizational factors that affect quality of care, such as, physician characteristics, type of practice, and hospital and clinic settings. Problems involved in monitoring medical-care quality in different contexts such as neighborhood health centers also are considered, and specific methods in use are illustrated. Readings are assigned and original studies may be undertaken. First trimester, second year. One one-hour seminar weekly, by arrangement. Dr. Goss.

Problems of Health Care Delivery in New York City In this seminar, various problems that interfere with delivery of health service in New York City will be examined as an illustration of generic difficulties of health care delivery in metropolitan areas. Guest speakers from city agencies will be invited to report and participate in the discussions. Readings will be assigned. First trimester, first or second year. One one-hour seminar weekly, by arrangement. Maximum of twenty students can be accommodated. Dr. Reader.

Medical Information and Medical Decision Making The aim of this one-trimester course is to familiarize the medical student with (1) definition and types of medical information; (2) capture of medical information including the value of the personal interview; (3) storage of medical information including the patient's record in its various forms; (4) retrieval of medical information; (5) concepts of disease; (6) principles of medical decision making—diagnosis, treatment, and prognosis; and (7) automated aids to medical information handling and decision making. By arrangement, one one-hour seminar a week and another hour a week for laboratory experience, including work with decision-aids system under development. Open to students in any of the first three years. Special arrangements can be made for students in the fourth year. There are no medical course prerequisites. A maximum of six students can be accommodated. Readings will be assigned. Dr. Engle.

Application of Epidemiologic Methods to Problem Solving in Clinical and Community Medicine

This elective will parallel each lecture in the basic course, Introduction to Epidemiology. The epidemiologic approach to questions of disease causation, prevention, screening, treatment, and medical-care organization will be developed using examples drawn from the literature. Controversies over clinically relevant issues will be considered by examining appropriate observational and experimental studies with special attention to their design and the nature of inferences drawn from them. This series of exercises will provide the student with insight into the design of clinical studies and in the use of various epidemiologic investigative strategies. Offered in the second trimester. Open to second-year students. Unlimited enrollment. Tuesday, 3 p.m. Drs. Schottenfeld and Haas.

Perspectives on Drug and Alcohol Abuse A series of eight two-hour seminars that will consider selected drug abuse topics. Each student will be expected to prepare a presentation on some aspect of the subject that will serve as the focus for the individual seminars. Direct contact with research and treatment programs will be provided. Background readings will be suggested. This elective for first-year students is by arrangement. Dr. Millman.

Jamaica Rural Health Project This program involves student participation in a community health project in rural Jamaica. Begun in 1969 as a small, discrete project serving a small locality in mountainous central Jamaica, the program involves the Parish of Hanover, where 65,000 people live in about 280

square miles. The goal of the program, sponsored by Cornell, the University of the West Indies, and the government of Jamaica, is to determine means of improving health care for the rural poor through development of new and, hopefully, replicable means of delivery that rely on locally available resources.

The students participate in a community-based, health care delivery system that is currently focused upon the mother and young child with particular emphasis on nutrition. The goals of the students in the project are to study a defined community in order to identify its barriers to health, to render clinical and preventive services, to identify the most prevalent diseases and conditions, to augment the human medical resources of the community by training and educating community residents, and, over time, to assess the impact of their efforts on the health status of the community. Offered all year. Prerequisites include third-year rotation in medicine, obstetrics and gynecology, pediatrics, and surgery. Four students can be accommodated full time for a minimum of seven weeks. Dr. Alderman.

Epidemiology at the Center for Disease Control, Atlanta, Georgia An epidemiology elective in the Epidemiology Program of the Center for Disease Control is available for selected fourth-year medical students. During the two-module elective, students will be introduced to both the principles and practices of epidemiology through participation in the day-to-day operation of a national disease surveillance system, and by actively assisting in epidemiological investigations of acute viral, bacterial, or parasitic diseases, or in studies in other Epidemiology Program areas such as family planning evaluation, leukemia, congenital malformations, and nutrition. Insofar as possible, the student will be allowed to choose the program area to which he wishes to be assigned. Under the general supervision of a career staff physician, the student, in addition to assisting in epidemic investigations, will work with Epidemic Intelligence Service (EIS) officers in all phases of program activities, including processing of epidemiologic data, preparation of surveillance reports, and participation in staff seminars. Travel and living expenses related to field investigations will be defrayed by the Epidemiology Program, but regular living expenses while in Atlanta (which will account for more than half of the elective period), plus basic transportation costs between the current home medical school and Atlanta must be borne by the student. Offered: all year; duration: two modules. Prerequisites: biostatistics, epidemiology, third-year Public Health. Number of students per year: maximum of 2; full-time. Sponsor: Dr. Drusin.

Community Medicine and Public Health: New York City Department of Health This elective is under the direction of Ms. Lenore Deutscher, M.P.A., New York City Department of Health. Utilizing the resources of the New York City Department of Health and its affiliates (Health and Hospital Corporation, Office of the Chief Medical Examiner, District Health Services, Environmental Health Services, Comprehensive Health Planning Agency, etc.), the Health Research Training Program places students on ongoing and *ad hoc* research projects under the supervision of public health professionals. Those projects

are selected which demonstrate the principles of epidemiologic, biostatistical, and other research methods while furthering specific goals in community medicine and public health. They offer practical experience in health programs planning, administration, and evaluation. The training program also makes placements in university medical center clinics and research divisions and in private agencies with a health advocacy role. Offered: all year; duration: one module. Prerequisites: biostatistics, epidemiology, third-year Public Health. Number of students per module: maximum of 2; full-time. Sponsors: Dr. Reader and Dr. Drusin.

Uses and Functions of Language in Medicine

This course is devoted to the assumption that language is a basic tool in medicine. Every medical diagnosis, treatment, operation, and prescription is accompanied by language, to say nothing of such medical acts as explanations, comforting, or reassurance. To study the fundamentals of the functions and uses of language in medicine, lectures and demonstrations based on conversations recorded between patients and doctors will be presented. The course will consist of units discussing and illustrating the various levels of communication, such as how attitude, affect, conceptions, and intentions, are conveyed and perceived in speech in the medical situation. The course provides a fundamental tool for the second-year course on interviewing, reassurance, compliance, comforting, use of the telephone, explanation, etc. Offered: Modules F and G; duration: two modules. Prerequisites: none. Number of students per module: unlimited; full-time. Sponsor: Dr. Cassell.

Research on Language in Medicine There will be individual research programs in which students will listen to recorded materials, develop research methodologies in the field, record specialized patient-doctor interaction, or work on special aspects of language function and use. Examples are: patients' conceptions of causal relationships in health and disease, temporal sequencing in relating symptoms or illness information, doctors' use of jargon or special language. Students can expect to acquire refined listening and interviewing skills. Students are required to write a paper on the work they have done. Offered: all modules; duration: one or more modules. Prerequisites: interview with sponsor. Number of students per module: maximum of 3. Arrangements of sessions: flexible. Sponsor: Dr. Cassell.

Public Health Pediatrics Preceptorship The Sunset Park Family Health Center of the Lutheran Medical Center (Brooklyn, N. Y.) offers extensive clinical experience in family centered ambulatory pediatrics in an inner city neighborhood. The student is also expected to participate in related community activities. Offered all year; duration: one module. Prerequisites: completion of third year. Number of students per module: flexible; arrangement of sessions: full time. Sponsor: Dr. Howe.

Bedside Approach to the Etiology of Cancer In a cooperative program with the Memorial Sloan-Kettering Cancer Center and Cornell University Medical College, students are asked to participate with clinical

investigators in using the bedside setting for generating new etiologic hypothesis for specific cancer sites. Alternatively, students may participate in ongoing epidemiologic research projects in which they will be encouraged to assume responsibility for some discrete facet of such investigations. Offered: all year; duration: one or more modules. Prerequisites: interview with sponsor. Number of students per module: maximum of 2; arrangement of sessions: full time or part time. Sponsors: Dr. Schottenfeld and Dr. Haas.

Radiology

Professors

J. P. Whalen, chairman; D. V. Becker, F. C. H. Chu, J. A. Evans, R. H. Freiburger, B. S. Hilaris, L. Krook, M. A. Meyers, D. G. Potts, H. L. Stein, R. C. Watson

Associate Professors

R. Benua, M. D. F. Deck, E. Deschner, A. Govoni, J. Hurley, J. H. Kim, Z. Mujahed, N. Poker, T. Sos, P. Winchester

Clinical Associate Professors

F. M. Cummins, C. Merten, L. Nisce, J. Smith, G. Stassa, J. Zizmor

Adjunct Associate Professors

S. Balter, P. Cahill, E. Nunez

Assistant Professors

G. Abbott, L. Anderson, M. E. Batata, L. M. Blau, P. Brill, M. Edelman, G. Ghelman, H. Goldberg, A. Goldman, D. G. Gomez, R. T. Heelan, J. G. Holt, S. Hopfan, R. A. Hyman, J. G. Jacobstein, E. Kazam, C. D. Kelley, R. L. A. Kirch, B. Lee, M. Loring, J. Naidich, R. L. Osborne, R. C. Packert, L. N. Rothenberg, Z. Saary, R. Schneider, H. S. Teixidor, A. Vallejo

Clinical Assistant Professors

A. W. Haraway, Jr., J. C. Hirschy, H. M. Selby, R. E. Snyder, J. Zimmer

Instructors

R. R. Bugbee, J. Cassir, J. Cavallari, B. Chabora, M. Goldman, K. Goodman, J. Hacken, R. Mohan, M. Powell, J. Putrino, G. D. Ragazzoni, L. D. Simpson, J. St. Germain, A. Wecksell, J. Wexler

Clinical Instructors

M. Barandes, R. H. Leaming, R. Rosenberg

Fellows

J. Ahmadi, J. Albom, R. Baxi, J. Caravelli, D. D. Der-shaw, S. Efremidis, B. Fish, B. Gold, A. Newman, D. Olian, H. Pavlov, S. Perlmutter, W. A. Rubenstein

Facilities

Five floors of the L Building comprise the main facilities of the Radiology Department. A large diagnostic section is located in the Doctor Connie Guion Outpatient Building, adjacent to the emergency pavilion. In addition, equipment for special examinations is located in the Women's Clinic, the Urology Clinic, and the Payne Whitney Clinic. New diagnostic radiology research facilities are located on the sixth and seventh floors of the William Hale Harkness Research Building.

The Department of Medical Physics at Memorial Hospital provides teaching, service, and research activities in the areas of diagnostic radiology, radiation therapy, and nuclear medicine. The staff and facilities of the Department of Medical Physics are available to interested students.

The teaching of radiology continues through all four academic years. It includes didactic lectures, demonstrations, conferences with small groups in connection with clinical clerkships, presentations of the radiologic manifestations of diseases at the regular conferences of the clinical departments, and a variety of elective courses.

First Year

Electives An elective is offered in diagnostic radiology in collaboration with the Department of Anatomy. Carefully planned demonstrations using radiographs and radiologic techniques are closely integrated with the dissection sessions in gross anatomy. The use of radiographs enhances the student's understanding of anatomical details and provides the student with a clearer perspective of important anatomical relationships.

An elective course in radiographic anatomy in diagnosis, limited to seven students, is offered in the third trimester. Observation and seminar study of radiographs and their use as an anatomical basis for special procedures will be considered. Conventional radiography and fluoroscopy will be reviewed for further understanding of anatomy.

Second Year

In conjunction with the physical diagnosis of the thorax and abdomen, eight hours are devoted to the use of radiology as a tool in teaching physical diagnosis and emphasizing x rays as an extension of the physical examination. Both normal anatomy and selected cases of pathologic alteration will be reviewed.

Third Year

Third-year instruction in radiology consists of a twenty-eight hour lecture course in diagnostic radiology. The aim is to relate the student's knowledge of anatomy and pathology, gained in the first two years, to the findings seen on roentgenograms in various disease entities. The essential diagnostic points of the most frequently encountered lesions are illustrated by material from the department's teaching files. The first third of the course covers the thorax, including the lungs, heart, and mediastinum. The

second third of the course covers the abdomen, including the solid viscera and the gastrointestinal tract. The final third of the course covers urological, neurological, and bone radiology. The student is encouraged to gauge his or her progress by self-evaluation sessions after each third.

Fourth Year

An elective is offered to groups of up to twenty students each module, consisting of a series of informal talks, seminars, and multiple case presentations in an attempt to apply the information of previous courses. Emphasis is placed on giving the student an appreciation of the use of radiology in a clinical setting. A large film and lantern slide museum of cases, carefully selected for their teaching value, has been prepared. This is constantly added to from the abundant material passing through the department.

An elective in the clinical application of radioactive isotopes consists of a period of participation in and observation of the activities of the Division of Nuclear Medicine. The student will have the opportunity to obtain basic orientation in procedures involved in the quantitation of radionuclides by direct participation in laboratory exercises. These will be carried out in the framework of a clinical laboratory primarily concerned with the diagnosis of a variety of disorders by the application of the techniques of radioactive nuclides.

The student will have an opportunity to observe the various procedures (including organ scanning and a number of physiologic studies) and to evaluate some of the patients receiving these studies and to assist in the interpretation of the procedures. The student will participate in the daily report session in which scans and procedures are reviewed. In addition, if the student wishes, he or she may originate research activities or participate directly in some of the ongoing research activities of the laboratory, ranging from the development and standardization of new procedures to instrument modification and calibration. Also, for the interested student, there will be an opportunity to work with some of the computer-related procedures in the laboratory under the direction of Dr. Patrick Cahill. This course lasts for five modules and is limited to two students.

Surgery

Professors

G. T. Shires, Lewis Atterbury Stimson Professor of Surgery, chairman; E. J. Beattie, Jr., W. G. Cahan, P. W. Curreri, Johnson & Johnson Professor of Surgery; P. Dineen, J. G. Fortner, E. I. Goldsmith, D. Goulian, Jr., V. F. Marshall, E. C. Muecke, R. H. Patterson, Jr., S. F. Redo, A. L. Rubin, K. H. Stenzel, E. W. Strong, B. Thorbjarnarson, W. F. Whitmore, Jr., P. D. Wilson, Jr.

Clinical Professors

W. A. Barnes, S. J. Behrman (dentistry), H. S. Dunbar, A. E. Inglis, B. Jacobs, R. W. Lavengood, Jr., J. M. McGovern, T. R. Miller, L. R. Straub, J. C. Whitsell, II

Adjunct Professor

C. C. Edwards

Associate Professors

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Instructors

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Clinical Instructors

H. J. Abrams, M. W. Abrams, M. Arlen, J. N. Attie, M. J. Attkiss, S. Avnet, A. A. Bakst, H. T. Barbaris, J. M. Becker, F. T. Bergen, R. B. Berroya, B. Bronsther, T. I. Carey, E. V. D. Coryllos, T. M. Darrigan, R. E. Decker, S. L. Deckoff, A. R. Deschamps, M. M. Errico, K. A. Falvo, M. E. Freund, J. P. Gaston, F. P. Gerold, L. A. Gordon, J. W. Guido, J. G. Herbstritt, W. F. Hermann, S. J. Hershon, R. E. L. Hertz, G. Imber, K. Kenigsberg, I. H. Krasna, S. B. Labow, C. W. Lee, A. R. Mackenzie, D. M. Mazon, E. A. O'Neill, T. J. Palmieri, J. Pamilla, M. W. Panio, H. Pearl, E. P. Pickett, I. B. Prince, T. D. Rizzo, A. D. Rosenthal, H. Rothenberg, R. G. Schwager, D. L. Schwartz, J. M. Sherwood, D. C. Silverstein, I. C. Song, I. A. S. Spira, M. K. Sutaria, A. P. Sutton, R. N. Tiedemann, N. D. Krishne Urs, J. S. Wexler, A. B. White, A. J. Wise, D. P. Wolk, J. Yogaratnam

Adjunct Instructor

R. R. Zelko

Required Courses

Second Year

Instruction begins in the third trimester of the second year. Sessions are provided in general surgical problems as part of the course in physical diagnosis. Instruction also is provided in orthopedic and urologic examination.

Third Year

The curriculum for the third year provides a core program of clinical instruction and exposure in surgery to the students during an eleven-week period. This consolidates all surgical instruction outside of initial teaching in physical diagnosis in the second year and leaves the fourth year for elective studies.

The third-year class is divided into four sections. Each quarter provides approximately eleven weeks on the general surgery pavilions with rotations through the divisions of thoracic surgery, urology, orthopedics, and Memorial Sloan-Kettering Cancer Center. During this time, the student acts as clinical clerk and participates in day-to-day activities in patient care. The student gathers experience by taking complete histories and doing physical examinations. The student also

evaluates laboratory determinations on assigned patients and has an opportunity to participate in the preoperative preparation. When the patient is operated on, the student may act as part of the operating team to see at first hand the pathological conditions for which the operation was undertaken. The student attends the rounds held by the residents and members of the senior staff.

Each Tuesday, from 8 to 9 a.m., the chairman of the department has a conference with the student body during which various surgical problems are reviewed. Three days a week, on Mondays, Tuesdays, and Thursdays, from 1 to 2:30 p.m., seminars are held in which attending surgeons lecture on surgery and its subspecialties. This schedule provides a broad coverage of surgery in its entirety.

On Thursday afternoons, from 3 to 4 p.m., seminars are held during which the students present lectures on assigned surgical subjects. Attending surgeons act as moderators supplementing and guiding the discussion that results from the students' presentations. On Tuesday and Thursday afternoons, ward rounds are held by surgeons accompanied by students. These rounds are oriented toward the particular patients and problems available on the floor each time. On Wednesday mornings there is a session in experimental surgery. The students are divided into groups and operations on animals (dogs) are performed under the direction of surgeons. Students alternate as anesthesiologists, surgeons, and assistants during the operations. These operations are performed under strict aseptic conditions and simulate conditions actually encountered in the operating room. The students are responsible for the care of the animal during the pre- and postoperative periods, writing operative notes, and keeping a log for each operation that is performed. On Tuesday afternoons instruction is provided in ophthalmology and ear, nose, and throat diseases by the respective departments. These sessions are held either at The New York Hospital or Manhattan Eye, Ear and Throat Hospital.

Grand rounds are held on Wednesday afternoons and the student's attendance is required. These rounds last for one hour or more and usually two patients with surgical problems are presented and discussed. Experience in emergency surgical care is provided in the Emergency Room where the students are assigned in small groups on a rotating basis.

Elective Options

Fourth Year

In the fourth year, the Department of Surgery offers a variety of electives, including experiences in clinical fields as well as in research laboratories. These are fully outlined in the *Catalog of Electives*. In addition, there is a full-year elective as intern in surgical service open to a limited number of qualified students.

Schedules 1977-78

First Year: Core Curriculum

First Trimester, Weeks 1-5

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Gross Anatomy A-250	Biochemistry A-250	Biochemistry A-250	Biochemistry A-250	Microscopic Anatomy
10-11		Microscopic Anatomy A-250	Gross Anatomy A-250	Microscopic Anatomy A-250	Gross Anatomy A-250
11-12					
12-1					
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Biochemistry A-250	Elective	Introductory Medicine A-250	Elective	Biochemistry A-250 & C-215
3-4	Psychiatry				
4-5	P-004				

First Trimester, Weeks 6-10

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9–10	Gross Anatomy A-250	Biochemistry A-250	Biochemistry A-250	Biochemistry A-250	Gross Anatomy A-250
10–11		Microscopic Anatomy A-250	Gross Anatomy A-250	Microscopic Anatomy A-250	
11–12					
12–1					
1–2	Lunch	Lunch	Lunch	Lunch	Lunch
2–3	Biochemistry A-250	Elective	Introductory Medicine A-250	Elective	Biochemistry A-250 & C-215
3–4	Psychiatry		Elective		Elective
4–5	P-004				

First Year**Second Trimester**

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9–10	Biochemistry A-250	Physiology A-250	Biochemistry A-250	Biochemistry A-250	Physiology A-250 Gross Anatomy A-250 Elective
10–11	Gross Anatomy A-250	Microscopic Anatomy A-250	Gross Anatomy A-250	Microscopic Anatomy A-250	
11–12					
12–1					
1–2	Lunch	Lunch	Lunch	Lunch	Lunch
2–3	Physiology A-250	Elective	Intro Medicine (Social Determinants) C-215	Elective	Biochemistry A-250 & C-215
3–4	Inter- disciplinary		Elective		
4–5	A-250				

Third Trimester

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	
9–10	Physiology A-250	Neuroscience A-250	Physiology A-250	Elective	Neuroscience A-250	
10–11	Neuroscience A-250				Psychiatry P-004	Physiology
11–12				Lunch		
12–1						
1–2	Lunch	Lunch	Lunch	Psychiatry P-004	Lunch	
2–3	Neuroscience A-250	Elective	Physiology Lab		Elective	
3–4	Inter- disciplinary A-250					
4–5						

Second Year**First Trimester**

<i>Hour</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
9-10	Pathology C-215	Pharmacology A-950	Pathology C-215	Pharmacology A-950 & C-215	Pathology C-215
10-11		Pathology			
11-12		C-215			
12-1		Clinical Pathological Conference B-011			
1-2	Lunch	Lunch	Lunch		Lunch
2-3	Microbiology B-011	Pharmacology	Microbiology B-011	Lunch	Microbiology B-011
3-4		Elective		Elective	
4-5					

Second Trimester

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	
9–10	Pharmacology A-950	Pharmacology A-950 & C-215 Clinical Pathological Conference B-011	Pathology C-215	Public Health (Biostatistics) A-950	Pathology C-215	
10–11	Pathology C-215			Pharmacology		Pharmacology
11–12						
12–1						
1–2	Lunch	Lunch	Lunch	Lunch	Lunch	
2–3	Microbiology B-011	Public Health (Epidemiology) A-950	Elective	Psychiatry P-004	Microbiology B-011	
3–4		Elective				
4–5						

Third Trimester

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Pathophysiology C-215 and Physical Diagnosis A-950	Weeks 1-4: Parasitology C-215	Pathophysiology C-215 and Physical Diagnosis A-950	Elective	Pathophysiology C-215 and Physical Diagnosis A-950
10-11		Weeks 5-10: Pathophysiology			Neurology C-215
11-12		Cli Path Conf B-011			
12-1					
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Neurology and Physical Diagnosis A-950	Weeks 1-4: Parasitology C-215	Neurology and Physical Diagnosis A-950	Weeks 1-4: Parasitology C-215	Neurology and Physical Diagnosis A-950 A-250
3-4		Weeks 5-10: Elective		Weeks 5-10: Elective	
4-5					

Third Year Rotations

Sept. 6		Nov. 21 Dec. 17		Feb. 21
I A	Medicine	Sur	CHRISTMAS RECESS	Surgery
I B	Surgery	Med		Medicine
II C	Obstetrics-Gynecology	Pediatrics		Neurology, Psychiatry, Public Health
II D	Pediatrics	Neurology, Psychiatry, Public Health		Obstetrics-Gynecology
II E	Neurology, Psychiatry, Public Health	Obstetrics-Gynecology		Pediatrics
Sept. 6	Oct. 24	Jan. 2		Feb. 21

Feb. 21		Apr. 8	June 12		July 23
I C	Obstetrics-Gynecology	SPRING RECESS	Pediatrics	Neurology, Psychiatry, Public Health	
I D	Pediatrics		Neurology, Psychiatry, Public Health	Obstetrics-Gynecology	
I E	Neurology, Psychiatry, Public Health		Obstetrics-Gynecology	Pediatrics	
II A	Medicine		Med	Surgery	
II B	Surgery		Sur	Medicine	
Feb. 21		Apr. 17	May 15		July 28

Fourth Year**Elective Modules**

Module A September 6—October 7
 Module B October 10—November 11
 Module C November 14—December 16

Module D January 2—February 3
 Module E February 6—March 10
 Module F March 13—April 14
 Module G April 17—May 19



Cornell University

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The center was formed by an agreement between
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University in order to associate organically the hos-
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coordination of the medical, educational, and sci-
entific activities of the two institutions. The center
now includes not only Cornell University Medical
College and The New York Hospital, but also the
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- Myron Arlen, Clinical Instructor in Surgery. Assistant Attending Surgeon, Bone Service, Memorial Hospital. B.A. 1953, Brooklyn College; M.D. 1957, State University of New York. (1963; 1966)
- Zalmen A. Arlin, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. B.Sc. 1968; M.D.C.M., 1970, McGill University. (1974; 1977)
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- Jesse Wexler, Instructor in Radiology. Assistant Attending Radiologist, New York Hospital. B.A. 1965, Hamilton College; M.D. 1969, State University of New York. (1976; 1977)
- Joseph P. Whalen, Professor of Radiology (Chairman). Radiologist-in-Chief, New York Hospital. B.A. 1955, Fordham University; M.D. 1959, State University of New York. (1968; 1976)
- Kathryn A. Whelan, Clinical Assistant Professor of Medicine. Senior Assistant Attending, North Shore University Hospital. B.S. 1962, C. W. Post College; M.D. 1966, New Jersey College of Medicine. (1970; 1976)
- A. Burton White, Clinical Instructor in Surgery. Senior Assistant Attending (Orthopedics), North Shore University Hospital. M.D. 1949, Hahnemann Medical College; A.B. 1954, Cornell University. (1974)
- Robert P. White, Assistant Professor of Biochemistry (Surgery); Assistant Professor of Surgery (Biochemistry); Assistant Professor of Medicine. Assistant Attending Surgeon, New York Hospital; Assistant Attending Physician, New York Hospital. A.B. 1962, Yale University; M.D. 1966, Columbia University. (1973; 1976)
- Horace W. Whiteley, Jr., Clinical Assistant Professor of Surgery. Associate Attending Surgeon, Rectal and Colon Service, Memorial Hospital. A.B. 1951, University of Pennsylvania; M.D. 1955, State University of New York. (1962; 1971)
- Willet F. Whitmore, Jr., Professor of Surgery (Urology). Attending Surgeon (Urology), New York Hospital; Attending Surgeon; Chief, Urology Service, Memorial Hospital. B.S. 1938, Rutgers University; M.D. 1942, Cornell University. (1943; 1972)
- John C. Whitsell II, Clinical Professor of Surgery. Attending Surgeon, New York Hospital. B.A. 1950, Grinnell College; M.D. 1954, Washington University. (1955; 1975)
- Carolyn F. Whitsett, Assistant Professor of Medicine. Assistant Attending Physician, Hematology Service, Department of Medicine, Memorial Hospital.

- B.S. 1966; M.D. 1970, Howard University. (1972; 1975)
- Michael E. Wiebe, Assistant Professor of Microbiology. B.S. 1965, Sterling College; Ph.D. 1971, University of Kansas. (1973)
- Robert E. Wieche, Clinical Associate Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1948, Miami University; M.D. 1952, Cornell University. (1956; 1969)
- Melvin Wiederkehr, Instructor in Otorhinolaryngology. Assistant Otorhinolaryngologist, New York Hospital. B.A. 1971, Yeshiva University; M.D. 1975, State University of New York. (1976; 1977)
- Melvin L. Wiedman, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore University Hospital. B.S. 1954; M.D. 1958, University of Vermont. (1971; 1973)
- Archibald E. Wightman, Clinical Instructor in Anesthesiology. Associate Attending Anesthesiologist, Memorial Hospital. M.A., Ch.B. 1958, University of Edinburgh (Scotland). (1973)
- Otto A. Will, Jr., Adjunct Professor of Psychiatry. B.A. 1933; M.D. 1940, Stanford University. (1968; 1975)
- John J. Williams, Assistant Professor of Surgery (Urology). Attending Surgeon (Urology), New York Hospital. B.S. 1962, St. Peter's College; M.D. 1966, Georgetown University. (1973; 1974)
- John R. Williams, Clinical Professor of Otorhinolaryngology. Attending Otorhinolaryngologist, New York Hospital. A.B. 1945, Columbia University; M.D. 1949, New York University. (1954; 1975)
- Barbara C. Wilson, Clinical Assistant Professor of Neurology. Pediatric Neuropsychologist, North Shore University Hospital. B.A. 1948, Brooklyn College; Ph.D. 1964, New York University. (1972; 1975)
- Emmett Wilson, Jr., Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1954, Oklahoma College; M.D. 1959, New York University; M.A., Ph.D. 1966, Harvard University. (1971; 1974)
- Maxim Wilson, Instructor in Medicine. Assistant Physician, New York Hospital. B.Sc. 1965; M.B., B.S. 1967, University of Queensland (Australia). (1976)
- Peter G. Wilson, Clinical Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1953; M.D. 1957, Columbia University. (1959; 1975)
- Philip D. Wilson, Jr., Professor of Surgery (Orthopedics). Attending Surgeon (Orthopedics), New York Hospital; Surgeon-in-Chief, Hospital for Special Surgery. M.D. 1944, Columbia University. (1951; 1972)
- Sidney J. Winawer, Associate Professor of Medicine. Associate Attending Physician, New York Hospital; Associate Attending Physician, Gastroenterology Service, Memorial Hospital. B.A. 1952, New York University; M.D. 1956, State University of New York. (1966; 1976)
- Patricia H. Winchester, Associate Professor of Radiology; Assistant Professor of Pediatrics. Attending Radiologist; Assistant Attending Pediatrician, New York Hospital; Associate Attending Roentgenologist; Associate Attending Pediatrician, Radiology, Memorial Hospital. B.S. 1955; M.D. 1959, Duke University. (1970; 1973)
- Robert J. Winchester, Adjunct Associate Professor of Medicine. Clinical Affiliate in Medicine, New York Hospital. Assistant Attending to Outpatients, Hospital for Special Surgery. M.D. 1963, Cornell University. (1964; 1977)
- Erich E. Windhager, Professor of Physiology (Chairman). M.D. 1954, University of Vienna (Austria). (1958; 1973)
- Muriel C. Winestine, Clinical Assistant Professor of Psychology in Psychiatry. B.A. 1942, Brooklyn College; M.S. 1943, Columbia University; Ph.D. 1964, New York University. (1973; 1976)
- Charles Winkelstein, Adjunct Associate Professor of Psychiatry. A.B. 1947, Cornell University; M.D. 1951, New York University. (1975)
- A. Lee Winston, Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1949, Syracuse University; M.D. 1952, State University of New York. (1957; 1970)
- Jacqueline M. S. Winterkorn, Assistant Professor of Anatomy. A.B. 1967, Barnard College; Ph.D. 1974, Cornell University. (1974; 1976)
- Alan Wishner, Clinical Instructor in Surgery (Dentistry). Assistant Attending Dentist (Pedodontist), New York Hospital. B.S. 1963, Brooklyn College; D.M.D. 1968, University of Puerto Rico. (1977)
- Mildred H. Witkin, Clinical Assistant Professor of Psychology in Psychiatry. B.A. 1940, Hunter College; M.A. 1968, Columbia University; Ph.D. 1973, New York University. (1975; 1977)
- Robert E. Wittes, Assistant Professor of Medicine. Assistant Attending, Memorial Hospital. A.B. 1964; M.D. 1968, Harvard University. (1972; 1975)
- Carl F. Wolf, Assistant Professor of Pathology. Assistant Attending Pathologist, New York Hospital. B.S. 1953; M.S. 1954, Massachusetts Institute of Technology; M.D. 1968, Hahnemann Medical College. (1969; 1973)
- David J. Wolf, Clinical Instructor in Medicine. Clinical Associate, Department of Medicine, New York Hospital. B.A. 1956, Wesleyan University; M.S. 1959, University of Tennessee; M.D. 1962, University of Saskatchewan (Canada). (1977)
- Harvey I. Wolfe, Clinical Assistant Professor of Pediatrics. Active Staff, North Shore University Hospital. A.B. 1952, University of Pennsylvania. M.D. 1956, State University of New York at Syracuse. (1972)
- Michael J. Wolk, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1960, Colgate University; M.D. 1964, Columbia University. (1969; 1974)
- Thomas M. Woodcock, Assistant Professor of Medicine. Assistant Attending Physician, Clinical Chemotherapy Service, Memorial Hospital. B.S. 1966, Allegheny College; M.D. 1970, Columbia University. (1973; 1975)
- Jack F. Woodruff, Associate Professor of Pathology. Associate Attending Pathologist, New York Hospital. B.A. 1958, University of Massachusetts; M.D. 1962, Temple University. (1963; 1971)
- James Marshall Woodruff, Assistant Professor of Pathology. Associate Attending Pathologist, Me-

- morial Hospital. B.A. 1958, University of Massachusetts; M.D. 1963, Temple University. (1965; 1972)
- Kenneth R. Woods, Associate Professor of Biochemistry, Chairman, Research Committee, New York Blood Center. B.A. 1948, Arizona State College; Ph.D. 1955, University of Minnesota. (1956; 1968)
- Harold S. Wright, Clinical Associate Professor of Psychiatry, Associate Attending Psychiatrist, New York Hospital. A.B. 1936; M.D. 1939, Cornell University. (1946; 1973)
- Irving S. Wright, Emeritus Clinical Professor of Medicine, Attending Physician, New York Hospital. A.B. 1923; M.D. 1926, Cornell University. (1946; 1967)
- Alan Yagoda, Assistant Professor of Medicine, Assistant Attending Physician, Solid Tumor Service, Memorial Hospital. B.A. 1956; M.D. 1963, University of Vermont. (1969; 1975)
- Fun-Sun Yao, Clinical Assistant Professor of Anesthesiology, Assistant Attending Anesthesiologist, New York Hospital. M.B. 1968, National Taiwan University Medical College. (1973; 1977)
- Michael F. Yarborough, Assistant Professor of Surgery, Assistant Attending Surgeon, New York Hospital. B.S. 1968, Davidson College; M.D. 1972, University of North Carolina. (1977)
- Samuel D. J. Yeh, Clinical Associate Professor of Medicine. M.D. 1948, Medical School National Defense Medical Center, Shanghai; Sc.D. 1960, Johns Hopkins University. (1965; 1976)
- Jayaraja Yogaratnam, Clinical Instructor in Surgery, Assistant Attending Surgeon (Orthopedics), New York Hospital. Assistant Attending Surgeon, (Orthopedics), Hospital for Special Surgery. M.B., B.S. 1948, University of Ceylon. (1975)
- Stanley S. Yormak, Clinical Instructor in Medicine, Clinical Affiliate in Medicine, New York Hospital. B.A. 1954, City College of New York; M.D. 1959, University of Rochester. (1964; 1966)
- Charles W. Young, Associate Professor of Medicine, Associate Attending Physician, Hematology-Lymphoma Service, Memorial Hospital. A.B. 1952, Columbia University; M.D. 1956, Harvard University. (1966; 1976)
- Dean F. Young, Assistant Professor of Neurology, Clinical Affiliate in Neurology, New York Hospital. B.A. 1962, Kenyon College; M.D. 1966, Harvard University. (1970; 1976)
- Nancy Lizotte Young, Assistant Professor of Biochemistry in Medicine. B.S. 1959, Antioch College; Ph.D. 1974, Purdue University. (1977)
- Ronald J. Young, Associate Professor of Reproductive Biology in Obstetrics and Gynecology B.Sc., 1954, Sydney University; Ph.D., 1958, University of New South Wales (Australia). (1973; 1974)
- David A. Zackson, Clinical Assistant Professor of Medicine, Clinical Affiliate in Medicine OP, New York Hospital. B.S. 1953, Queens College; M.D. 1957, New York University. (1972; 1975)
- Joseph J. Zaia, Clinical Instructor in Obstetrics and Gynecology, Assistant Attending Obstetrician and Gynecologist, North Shore University Hospital. M.D. 1951, Georgetown University. (1971)
- James H. Zavec, Instructor in Pharmacology. B.A. 1968, LaSalle College; Ph.D. 1974, Ohio State University. (1975; 1976)
- Russell R. Zelko, Adjunct Instructor in Surgery, Consultant in Orthopedic Surgery (Sports Medicine), Hospital for Special Surgery. A.B. 1962; M.D. 1967, Cornell University. (1975)
- Ioannis A. Zervoudakis, Assistant Professor of Obstetrics and Gynecology, Assistant Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1967, University of Athens Medical School (Greece). (1971; 1976)
- David Zigelman, Clinical Instructor in Pediatrics, Assistant Attending Pediatrician, New York Hospital. B.A. 1969, Yeshiva University; M.D. 1973, Cornell University. (1974; 1976)
- Jerald Zimmer, Clinical Assistant Professor of Radiology, Assistant Attending Radiologist, New York Hospital. B.S. 1963, Rensselaer Polytechnic Institute; M.D. 1967, State University of New York. (1974; 1975)
- Muriel Zimmerman, Clinical Instructor of Psychology in Psychiatry. B.A. 1941, Brooklyn College; D.Sc. 1944, New School for Social Research. (1973)
- Stanley S. Zipser, Clinical Assistant Professor of Pediatrics, Associate Attending Pediatrician, New York Hospital. A.B. 1932, Columbia University; M.D. 1936, Long Island College of Medicine. (1940; 1961)
- Joseph J. Zito, Clinical Instructor in Surgery (Dentistry), Clinical Associate Oral Surgeon, New York Hospital. D.D.S. 1947, Temple University. (1977)
- Judah Zizmor, Clinical Associate Professor of Radiology, Attending Radiologist, New York Hospital; Director, Diagnostic Radiology, Manhattan Eye, Ear and Throat Hospital. B.A. 1932; M.D. 1934, University of Wisconsin. (1972)
- Philip H. Zweifach, Clinical Associate Professor of Ophthalmology in Neurology; Clinical Associate Professor of Ophthalmology, Associate Attending Neurologist; Associate Attending Ophthalmologist, New York Hospital. B.S. 1957, College of the City of New York; M.D. 1961, Cornell University. (1963; 1976)

Internship Appointments

Class of 1977

- Howard Barry Baum, Medicine; Dartmouth Affiliated Hospitals, Hanover, New Hampshire
- Penny Lynn Bisk, Medicine; George Washington University Hospital, Washington, D.C.
- Wayne Arthur Bottner, Medicine; The New York Hospital, New York, New York
- Laura Jean Brandt, Pediatrics; The New England Medical Center Hospitals, Boston, Massachusetts
- Joel Aaron Brochstein, Pediatrics; The New York Hospital, New York, New York
- Alan Charles Brown, Medicine; Nassau County Medical Center, Meadowbrook, New York
- Kenneth A. Brown, Medicine; Peter Bent Brigham Hospital, Boston, Massachusetts
- Ralph Charles Budd, Medicine; Dartmouth Affiliated Hospitals, Hanover, New Hampshire
- Ciro Joseph Carafa, Medicine; Hahnemann Medical College & Hospital, Philadelphia, Pennsylvania
- Clifford Hugh Carlson, Medicine; Brookdale Hospital Center, Brooklyn, New York

- Marcia Denise Carney, Medicine; Boston City Hospital, Boston, Massachusetts
- Jan Andree Clarke, Medicine; Temple University Hospitals, Philadelphia, Pennsylvania
- John David Crowell, Medicine; Beth Israel Hospital, New York, New York
- Ira Mitchell Dauber, Medicine; University of Colorado Affiliated Hospitals, Denver, Colorado
- Vincent Paul de Luise, Medicine; University of California Hospitals, Moffitt, San Francisco, California
- John Tobey Devlin, Medicine; Maine Medical Center, Portland, Maine
- Frank Lennox Douglas, Medicine; Johns Hopkins Hospital, Baltimore, Maryland
- Ellen Catherine Ebert, Medicine; Pennsylvania Hospital, Philadelphia, Pennsylvania
- Evelyn Flay Ellis, Pathology; Boston City Hospital, Boston, Massachusetts
- Leon Fay, Family Practice; Medical College of Virginia Hospital, Richmond, Virginia
- Naomi Ruth Feldman, Medicine; Los Angeles County Harbor General Hospital, Torrance, California
- Joseph Q. Finnegan, Medicine; University of Texas Southwest Affiliated Hospitals, Dallas, Texas
- Samuel A. Forman, Medicine; National Naval Medical Center, Bethesda, Maryland
- Wayne Alan Gavryck, Medicine; Hershey Medical Center, Hershey, Pennsylvania
- Arthur Lewis Gelston, Medicine; Baltimore City Hospitals, Baltimore, Maryland
- Ellen S. Gitler, Medicine; Bronx Municipal Hospital Center, Bronx, New York
- Mark H. Goldgeier, Medicine; Yale-New Haven Medical Center, New Haven, Connecticut
- Fred M. Gordin, Medicine; Georgetown University Hospital, Washington, D.C.
- Kenneth Lawrence Gordon, Psychiatry; The New York Hospital, New York, New York
- Kirk Douglas Gulden, Family Practice; Medical Center Hospitals, Charleston, South Carolina
- Scott A. Halperin, Pediatrics; University of Virginia Hospitals, Charlottesville, Virginia
- Charlotte Ann Harris, Medicine; Northwestern University Medical School, Chicago, Illinois
- Neil Hartman, Pediatrics; The New York Hospital, New York, New York
- Robert Mark Hemm, Medicine; Roger Williams General Hospital, Providence, Rhode Island
- Steven Almorer Hirshorn, Surgery; North Shore University Hospital, Manhasset, New York
- David Tobias Isaacs, Medicine; George Washington University Hospital, Washington, D.C.
- Michael Ira Jacobs, Medicine; Baylor College Affiliated Hospitals, Houston, Texas
- Jeffrey Martin Jacobson, Medicine; University Hospitals, Madison, Wisconsin
- Ronald Johnson, Flexible; Baylor College Affiliated Hospitals, Houston, Texas
- Valerie Johnson, Pediatrics; Mount Sinai Hospital, New York, New York
- Jane Wright Jones, Psychiatry; Yale-New Haven Medical Center, New Haven, Connecticut
- Walt Kagan, Medicine; University Hospitals, Boston, Massachusetts
- David Allen Kanarek, Medicine; Northwestern University Medical School, Chicago, Illinois
- David Bellikov Kaufman, Medicine; Montefiore Hospital Center, Bronx, New York
- Sherry Horn Kesden, Medicine; Lenox Hill Hospital, New York, New York
- Alan Edward Kilby, Medicine; University of Michigan Affiliated Hospitals, Ann Arbor, Michigan
- Sally Hehsok Kim, Pediatrics; Childrens Memorial Hospital, Chicago, Illinois
- Steven Brand Koenig, Medicine; Dartmouth Affiliated Hospitals, Hanover, New Hampshire
- Thomas Richard Kosten, Psychiatry; Yale-New Haven Medical Center, New Haven, Connecticut
- Mark Gregory Kris, Medicine; The New York Hospital, New York, New York
- Michael Roy Kurman, Medicine; Upstate Medical Center, Syracuse, New York
- Paul Francis Lachiewicz, Surgery; University of Minnesota Hospitals, Minneapolis, Minnesota
- David C. Larned, Surgery; San Diego Naval Hospital, San Diego, California
- Robert Michael Lembo, Pediatrics; Yale-New Haven Medical Center, New Haven, Connecticut
- Peter Joseph Lesniewski, Surgery; North Shore University Hospital, Manhasset, New York
- Molly Hall Levin, Medicine; The New York Hospital, New York, New York
- Theodore Chi-Mei Li, Medicine; The New York Hospital, New York, New York
- Storme Lynn, Medicine; Allentown Hospital, Allentown, Pennsylvania
- David N. Mann, Medicine; Beth Israel Hospital, New York, New York
- Sharyn E. Mannix, Medicine; Montreal General Hospital, Montreal, Canada
- James Fred Markowitz, Pediatrics; The New York Hospital, New York, New York
- Matthew A. Mauro, Radiology; North Carolina Memorial Hospital, Chapel Hill, North Carolina
- Patricia Marchese Mauro, Medicine; North Carolina Memorial Hospital, Chapel Hill, North Carolina
- Elliot Mayefsky, Surgery; Mount Sinai Hospital, New York, New York
- Patrick Vincent McMahon, Surgery; Naval Medical Center, Bethesda, Maryland
- John Paul Micha, Flexible; The New York Hospital, New York, New York
- Walid Michelen, Medicine; Montefiore Hospital Center; Bronx, New York
- George Andrew Miller, Jr., Medicine; Presbyterian St. Lukes Hospital, Chicago, Illinois
- Marshall Craig Mintz, Pediatrics; University of Rochester Affiliated Associate Program, Rochester, New York
- William Reamer Newman, Pediatrics; Baylor College Affiliated Hospitals, Houston, Texas
- Gary Steven Novick, Medicine; The Roosevelt Hospital, New York, New York
- Francis Richard Nullet, Medicine; West Virginia University Hospital, Morgantown, West Virginia
- Kurt F. Oesterling, Medicine; Medical College of Wisconsin Affiliated Hospitals, Milwaukee, Wisconsin
- Steven Ray Osa, Medicine; The New York Hospital, New York, New York
- James Warren Ostroff, Medicine; The New York Hospital, New York, New York

- Dennis Matthew Parker, Medicine; Case Western Reserve University Hospital, Cleveland, Ohio
- David Mathew Pilgrim, Medicine; Miriam Hospital, Providence, Rhode Island
- Barbara Rettet, Pediatrics; The New York Hospital, New York, New York
- Raul Antonio Reyes, Medicine; Veterans Administration Hospital, San Juan, Puerto Rico
- Carl Milton Richie, Medicine; North Shore University Hospital, Manhasset, New York
- Joan O. Richter, Medicine; Childrens Hospital, San Francisco, California
- Ronald Paul Schwarz, Medicine; North Carolina Memorial Hospital, Chapel Hill, North Carolina
- David Hill Serfas, Medicine; Peter Bent Brigham Hospital, Boston, Massachusetts
- Santina L. Siena, Medicine; Presbyterian St. Lukes Hospital, Chicago, Illinois
- Cornelius J. Smith, Surgery; Northwestern University Medical School, Chicago, Illinois
- Saul Kenneth Sokolow, Pediatrics; University of Rochester Affiliated Associate Program, Rochester, New York
- Charles Wallace Sorenson, Jr., Surgery; University of Utah Affiliated Hospitals, Salt Lake City, Utah
- Charles Brecknock Stacy, Jr., Medicine; Mount Sinai Hospital, New York, New York
- Carol Lorraine Storey, Medicine; The New York Hospital, New York, New York
- Lewis Carroll Strauss, Pediatrics; Johns Hopkins Hospital, Baltimore, Maryland
- Francesca Morosani Thompson, Surgery; The New York Hospital, New York, New York
- Patricia Anne Treadwell, Pediatrics; Indiana University Medical Center, Indianapolis, Indiana
- Barry Marvin Weintraub, Surgery; Los Angeles County Harbor General Hospital, Torrance, California
- Norman S. Werdiger, Medicine; Thomas Jefferson University Hospital, Philadelphia, Pennsylvania
- Mikel Ray Whiting, Flexible; Los Angeles County Harbor General Hospital, Torrance, California
- Herbert Pfeil Wiedemann, Medicine; University of Washington Affiliated Hospitals, Seattle, Washington
- Carol Williams Wilkinson, Medicine; Boston City Hospital, Boston, Massachusetts
- Howard Joseph Willens, Medicine; Long Island Jewish Hospital, New Hyde Park, New York
- Mitchell M. Wolfson, Medicine; Mount Sinai Hospital, New York, New York
- Arthur Townsend Wyker, Surgery; University of Virginia Hospital, Charlottesville, Virginia
- Perry Alan Wyner, Medicine; Medical College of Virginia Hospital, Richmond, Virginia
- Greg Zorman, Surgery; University of California Hospital, Moffit, San Francisco, California
- Felix Luis Badillo, B.S. 1974, St. John's University; Forest Hills, New York
- Larry Louis Bans, B.A. 1974, University of Minnesota; Minneapolis, Minnesota
- Laurie Lynn Barclay, B.A. 1974, Princeton University; Devon, Pennsylvania
- Joseph Steven Barone, B.A. 1974, Columbia University; Mount Vernon, New York
- Luciano Vito Barone, B.S. 1974, Brooklyn College; Brooklyn, New York
- Connie Joy Baum, B.A. 1974, Wellesley College; Passaic, New Jersey
- Roy Z. Braunstein, B.S. 1970, Cornell University; New York, New York
- Earl Barry Breeland, B.S. 1974, St. John's University; St. Albans, New York
- Gary Steven Bromley, B.A. 1974, University of Rochester; Cedarhurst, New York
- Kenneth Lawrence Buch, B.A. 1974, Boston University; Forest Hills, New York
- Gerri Tobytha Byrd, A.B. 1973, University of Pennsylvania; Pittsburgh, Pennsylvania
- Robert Singleton Carr, Jr., B.A. 1974, University of Rochester; Washington, D.C.
- Richard Dudley Carvolth, A.B. 1973, Dartmouth College; Katonah, New York
- Russell Nicholas Ake Cecil, B.A.; B.S. 1974, Yale University; Rye, New York
- Edward Randy Chelist, B.S. 1974, Washington University; Olivette, Missouri
- Thomas Francis Cheng, A.B. 1974, Princeton University; Princeton, New Jersey
- Alan Roy Cohen, B.S. 1974, Harvard University; Poughkeepsie, New York
- Jay Leslie Cohen, B.A. 1974, State University of New York at Albany; Bronx, New York
- David Jonathan Cohn, B.A. 1974, Wesleyan University; Port Washington, New York
- Jonathan Allen Cohn, A.B. 1972, Harvard University; Brooklyn, New York
- John Richard Combes, B.S. 1973, Manhattan College; Bronx, New York
- Paul J. Creary, B.A. 1972, Montclair State College; Montclair, New Jersey
- Richard Frederick Daines, B.A. 1974, Utah State University; Logan, Utah
- Jeffrey Arthur Dann, A.B. 1974, Harvard University; Hewlett Harbor, New York
- David Hammeken Davis, B.A. 1974, Swarthmore College; Nottingham, Pennsylvania
- Kathryn Ann Demas, B.A. 1974, Smith College; Indianapolis, Indiana
- Miles Howard Dinner, B.A. 1974, Queens College; Bayside, New York
- James Gregory Duncan, B.S. 1974, Morris Brown College; Butler, Georgia
- Kenneth Charles Engles, Jr., B.S. 1972, Wagner College; Staten Island, New York
- Joseph Paul Esposito, A.B. 1973, University of Pennsylvania; Harleigh, Pennsylvania
- Stephen Edmund Ettinghausen, B.A. 1974, Amherst College; Princeton, New Jersey
- Louise Elizabeth Feldhaus, B.A. 1972, College of New Rochelle; Troy, New York
- Joan Ellen Flender, A.B. 1974, Cornell University; North Merrick, New York

Students 1977-78

Fourth-Year Class

- Joseph Harry Antin, B.A. 1974, Williams College; White Plains, New York
- Mark Ellis Artusio, B.A. 1974, College of the Holy Cross; Pelham, New York

- Laurence Joseph Gavin, A.B. 1974, Cornell University; Glen Cove, New York
- Patricia Caroline George, B.Sc. 1974, Columbia University; Toronto, Canada
- Dana J. Giuliani, B.S. 1972, University of Wisconsin; Beaver Dam, Wisconsin
- William Price Given, Jr., B.A. 1974, New York University; New York, New York
- Jeffrey Philip Gold, B.S. 1974, Cornell University; Brooklyn, New York
- Robin H. Gold, A.B. 1975, Cornell University; Houston, Texas
- Kenneth J. Gorelick, B.S. 1973, State University of New York at Buffalo; Flushing, New York
- Ivan Darius Gowan, B.A. 1974, Colgate University; Candor, New York
- Frank J. Green, B.A. 1973, Swarthmore College; St. Charles, Illinois
- Francine Erna Halberg, B.A. 1973, Stanford University; St. Paul, Minnesota
- Hillel Sander Hammerman, B.S. 1974, Yale University; Jamaica, New York
- William Henry Hickling, S.B. 1974, Massachusetts Institute of Technology; Binghamton, New York
- Thomas Earl Hoerner, B.A. 1974, Bowdoin College; Livingston, New Jersey
- William Long Holman, B.A. 1974, Williams College; Pelham, New York
- Craig Walter Sandell Howe, B.S. 1969, University of Minnesota; Ph.D. 1974, Cambridge University; Minneapolis, Minnesota
- Samuel Hunter, B.S. 1967, Delaware State College; Ph.D. 1972, University of Illinois; East Orange, New Jersey
- Arthur Raymond Israel, B.A. 1974, Johns Hopkins University; Lawrence, New York
- Theresa Patricia Jackson, B.A. 1974, Hunter College; Bronx, New York
- Norman Arthur Johanson, B.S. 1972, Trinity College; Orange, Connecticut
- Jerome King Jones, B.S. 1974, Brooklyn College; Brooklyn, New York
- Kenneth Winston Jones, A.B. 1974, Cornell University; St. Albans, New York
- Frederick S. Kaiser, A.B. 1974, Yale University; Bellingham, Washington
- Ruth Diane Kaplan, A.B. 1975, Cornell University; New Rochelle, New York
- Stephen Robert Kay, A.B. 1975, Cornell University; Bethesda, Maryland
- Charles Horn Kellner, A.B. 1974, Cornell University; New York, New York
- Nancy Avery Kernan, B.A. 1974, Wheaton College; New York, New York
- Douglas R. Kerr, B.A. 1971, University of Pennsylvania; Vestal, New York
- Edwin Michael Kilbourne, A.B. 1974, Cornell University; Ridgewood, New Jersey
- Maureen Anne Killackey, A.B. 1974, Barnard College; Brewster, New York
- Jonathan Eric Klarfeld, A.B. 1974, Kenyon College; Fort Lee, New Jersey
- Eric M. Krauss, A.B. 1974, Harvard University; Laurelton, New York
- Mary Margaret Kuntz, B.A. 1972, Manhattanville College; Larchmont, New York
- James Lane, Jr., B.A. 1974, Columbia University; Huntsville, Alabama
- Harvey Mitchell Lederman, B.A. 1974, State University of New York at Buffalo; East Meadow, New York
- Laura Lennihan, A.B. 1974, Harvard University; Wilmington, Delaware
- Martin Robin Leopold, B.A. 1974, Hofstra University; Farmingdale, New York
- Gerald J. Lieberman, B.A. 1972, New York University; Mineola, New York
- George Chi-Kao Liu, B.S. 1966, National Taiwan University; Ph.D. 1972, University of Notre Dame; New York, New York
- Meredith Allyn Long, B.A. 1974, Adelphi University; Baldwin, New York
- David Lawrence Longworth, B.A. 1974, Williams College; New Philadelphia, Ohio
- John Dana Mannion, B.A. 1974, College of the Holy Cross; West Orange, New Jersey
- Erwin Mermelstein, A.B. 1974, Columbia University; Brooklyn, New York
- Mary Sue Napoleon, B.S. 1972, Niagara University; Niagara Falls, New York
- Jeffrey Lewis Nelson, B.A. 1973, Tufts University; New Hyde Park, New York
- Celeste Irene Pociask, B.A. 1974, Wellesley College; Union, New Jersey
- James Hayes Powell, Jr., B.S. 1974, Virginia Union University; Birmingham, Alabama
- Cathleen Louise Raggio, B.S. 1974, Fordham University; Bronx, New York
- Nina Carmen Ramirez, B.S. 1974, Fordham University; New York, New York
- Barbara Kilburn Richardson, A.B. 1971, Mount Holyoke College; New York, New York
- Linda Hope Ripstein, A.B. 1974, Barnard College; Great Neck, New York
- David Enrique Rivera, B.A. 1974, Queens College; Jamaica, New York
- John Edward Robinton, A.B. 1974, Princeton University; Port Washington, New York
- James Andrew Rommer, B.S. 1974, Haverford College; Mountainside, New Jersey
- Susan Isaacs Rosen, B.S. 1974, Yale University; Franklin Square, New York
- Sindee Anne Rubin, B.A. 1974, Northwestern University; Forest Hills, New York
- Augustine John Ryan, Jr., A.B. 1974, Brown University; Mahopac, New York
- Linda Marina Salzman, A.B. 1973, Barnard College; Bronx, New York
- Eslee Samberg, A.B. 1974, Radcliffe College; Miami, Florida
- Diane Joan Schecter, B.A. 1974, New York University; Great Neck, New York
- Theodore Lucian Schreiber, B.A. 1974, Queens College; Jamaica, New York
- Robert Schultz, B.A. 1969, Hamilton College; Fair Lawn, New Jersey
- Harry Lewis Sernaker, A.B. 1971, Amherst College; Bayside, New York
- Ellen Louise Shulman, B.A. 1974, State University of New York at Buffalo; Bayside, New York
- Raul Ernest Sosa, A.B. 1973, Columbia University; Corona, New York

Dennis J. Sullivan, B.A. 1972, College of the Holy Cross; Delmar, New York
 Thomas Kaname Tatemichi, A.B. 1974, Brown University; Aiea, Hawaii
 Marie M. Warburg, B.A. 1968; M.A. 1972, University of Munich; Hamburg, West Germany
 Estella Elizabeth Whimbey, B.A. 1967, Queens College; Jackson Heights, New York
 Anne Dorothy Willoughby, B.A. 1973, Bryn Mawr College; White Plains, New York
 Paul Howard Wise, A.B. 1974, Cornell University; Old Westbury, New York
 Marc J. Yunis, B.A. 1971, New York University; Brooklyn, New York

Third-Year Class

Kenneth Gary Adams, B.A. 1973, Rutgers University; M.A. 1975, State University of New York at Stony Brook; River Edge, New Jersey
 Dale Steven Adler, A.B. 1975, Harvard University; Beachwood, Ohio
 Todd Robert August, B.A. 1972, Colgate University; M.A. 1974, University of California; West Nyack, New York
 Ernest Frank Baldwin, III, B.A. 1974, University of Utah; Salt Lake City, Utah
 Lucinda B. Barnard, B.A. 1964, Sweet Briar College; M.S.W. 1971, Fordham University; New York, New York
 Gary Keith Berman, B.S. 1975, Queens College; Forest Hills, New York
 Alan Leonard Bernstein, B.S. 1968, Columbia University; Brooklyn, New York
 Drucy Sarette Borowitz, B.A. 1975, Brandeis University; Port Washington, New York
 Mark Judson Botham, B.S. 1975, University of Wisconsin; Madison, Wisconsin
 Donald Barry Boyd, B.S. 1971, Cornell University; M.S. 1974, Columbia University; New York, New York
 Robert Dawson Brown, B.S. 1974, City College of New York; New York, New York
 William Paul Burdick, B.A. 1975, Oberlin College; New York, New York
 William J. Burtis, B.A. 1963, Dartmouth College; Ph.D. 1974, Stanford University; North Conway, New Hampshire
 Robert John Buys, B.S. 1973, University of California, Los Altos, California
 Emanuel Crespo, A.B. 1974, Columbia University; Bronx, New York
 Byron Paul De Lemos, B.A. 1975, Wesleyan University; East Orange, New Jersey
 David Lincoln Diuguid, A.B. 1975, Harvard University; St. Louis, Missouri
 Van Howard Dunn, S.B. 1974, Massachusetts Institute of Technology; Brooklyn, New York
 Barry Evan Egener, A.B. 1975, Cornell University; Scarsdale, New York
 Catherine Anne Egli, B.A. 1974, Swarthmore College; New York, New York
 Paula Gail Elster, S.B. 1974, Massachusetts Institute of Technology; Palo Alto, California
 Clara Emilia Escuder, B.A. 1975, Queens College; Corona, New York
 Michelle Yvette Farmer, B.A. 1975, Yale University; Fayetteville, North Carolina
 Sherry Lynn Fine, B.A. 1974, University of Pennsylvania; Passaic, New Jersey
 Stuart Fischer, B.S. 1973, Brooklyn College; Brooklyn, New York
 David Dennis Frank, B.A. 1973, Boston University; Brooklyn, New York
 Richard Alan Furie, A.B. 1974; M.S. 1975, Cornell University; Millburn, New Jersey
 Paul Jason Glass, A.B. 1975, Harvard University; Fairfield, Connecticut
 Peter Clement Greif, B.A. 1975, Haverford College; New York, New York
 James Bruce Grimes, B.A. 1975, University of Kansas; Lyons, Kansas
 Harvey Guttman, B.S. 1975, Hobart College; Bay-side, New York
 David Mason Hallbert, B.S. 1974, University of Alaska; Fairbanks, Alaska
 Firouze Marie Hatam, B.A. 1973, Vassar College; Wappinger Falls, New York
 Paul Herman Hertz, B.A. 1975, Queens College; Forest Hills, New York
 Diana Horne, B.A. 1974, Sarah Lawrence College; Bronxville, New York
 Richard Stephen Infante, B.A. 1973, Queens College; M.A.T. 1975, State University of New York at Stony Brook; Whitestone, New York
 David George Jacobs, B.A. 1975, Williams College; Hillcrest Heights, Maryland
 Catherine Luella Joachim, B.S. 1975, Yale University; Madison, Wisconsin
 Zoe Janette Jones, B.A. 1971, Smith College; M.A. 1975, Columbia University; Macon, Georgia
 Robert David Kaplan, B.A. 1975, Stanford University; Manhasset, New York
 John Edward Kehoe, B.A. 1970, Amherst College; New York, New York
 Jane Ellen Kelman, B.A. 1971, Kirkland College; New York, New York
 Ronald J. Koenig, B.S. 1972, Yale University; Mer-rick, New York
 Eric Melton Koscove, B.A. 1971, Washington University; Federalsburg, Maryland
 Joseph Antal Kovacs, A.B. 1975, Harvard University; Kew Gardens, New York
 Bart Avrum Kummer, B.A. 1975, Wesleyan University; Rockville, Connecticut
 Jeffrey Kurland, B.A. 1972, State University of New York at Buffalo; Ph.D. 1977, Cornell University; New York, New York
 David Frederick Landry, B.A. 1975, St. Michael's College; Scituate, Massachusetts
 Marjorie Helen Lavin, B.A. 1976, University of Rochester; Rochester, New York
 Robert Michael Lawrence, B.A. 1973, University of Rochester; Rochester, New York
 Thomas Henry Lee, Jr., A.B. 1975, Harvard University; Fairfield, Connecticut
 Gifford S. Leong, B.S. 1975, Columbia University; Rego Park, New York
 Irene Helen Ludwig, B.A. 1975, Queens College; Flushing, New York
 Steven Kean Luminais, B.A. 1975, Swarthmore College; Aurora, Illinois

Laurel Blima Mark, B.S. 1975, Cornell University; Ithaca, New York
 George Edmead Matthews, B.S. 1975, Brown University; Brooklyn, New York
 Paul Henry Mayo, B.A. 1975, Hunter College; New York, New York
 David Grant Meyer, B.A. 1972, University of Vermont; Saranac Lake, New York
 Brent Wynn Miedema, B.A. 1975, University of North Dakota; Edgeley, North Dakota
 Jeffrey Louis Moorman, A.B. 1973, Cornell University; Smittstown, New York
 Thomas James O'Dowd, B.A. 1975, New York University; Brooklyn, New York
 Frederick Peter Ognibene, B.A. 1975, University of Rochester; Falconer, New York
 Rebecca Ann Osgood, B.A. 1975, Smith College; Winchester, Massachusetts
 Melissa Anne Paterno, B.A. 1975, Hunter College; New York, New York
 Barry Scott Pinchoff, B.A. 1975, Columbia University; Brooklyn, New York
 Donovan Charles Polack, B.A. 1975, Queens College; Jamaica, New York
 Donald Richard Polakoff, B.A. 1975, Cornell University; Valley Stream, New York
 Andrew G. Rev, B.S. 1974, State University of New York at Stony Brook; Forest Hills, New York
 Frank Oliver Richards, Jr., B.A. 1975, Williams College; St. Louis, Missouri
 Bruce Lee Ring, B.S. 1975, Cornell University; Long Beach, New York
 Patricia Marie Romano, B.S. 1974, Long Island University; Brooklyn, New York
 Margaret Elizabeth Ross, B.A. 1975, State University of New York at Binghamton; Rochester, New York
 Harley Aaron Rotbart, B.A. 1975, University of Colorado; Denver, Colorado
 Brian Saltzman, B.A. 1975, Tufts University; Long Beach, New York
 Patricia Constantia Samuels, B.A. 1975, Cornell University; Brooklyn, New York
 William John Schickler, III, B.A. 1975, Johns Hopkins University; Commack, New York
 Steven Mark Schlossberg, B.A. 1975, Franklin and Marshall College; Muttontown, New York
 Ann Whitney Schongalla, B.A. 1974, Yale University; Old Greenwich, Connecticut
 Steven Edward Schutzer, B.A. 1973, New York University; Great Neck, New York
 Kevin Mark Shannon, B.A. 1976, Williams College; Tarrytown, New York
 Theresa Tarlton Sherrod, B.A. 1975, Swarthmore College; Swarthmore, Pennsylvania
 Raymond Allen Shofler, B.A. 1972, State University of New York at Albany; Valley Stream, New York
 Paul Albert Skudder, Jr., B.A. 1975, Williams College; Pelham, New York
 Cynthia Lee Smith, B.S. 1975, Lemoyne College; Hogsburg, New York
 Thomas Warren Snickenberger, A.B. 1975, Dartmouth College; Dallas, Texas
 Michael Sheldon Snyder, B.A. 1975, Williams College; Greenwich, Connecticut
 David Dean Speck, A.B. 1975, Cornell University; Auburn, New York

Ronni Gail Stein, B.S. 1975, Cornell University; Poughkeepsie, New York
 Anthony Lee Suchman, A.B. 1975, Cornell University; Larchmont, New York
 David John Sugarbaker, B.S. 1975, Wheaton College; Jefferson City, Missouri
 Bauer Enriquez Sumpio, B.A.; M.A. 1974, Johns Hopkins University; Man, West Virginia
 John Robert Sussman, B.A. 1975, Haverford College; Owings Mills, Maryland
 Stewart Jeff Tepper, A.B. 1975, Yale University; Schenectady, New York
 Howard Paul Terry, B.A. 1975, State University of New York at Stony Brook; Plainview, New York
 James Michael Thiel, A.B. 1975, Dartmouth College; Hamburg, New York
 Melissa Joy Thiel, B.A. 1975, Lafayette College; Livingston, New Jersey
 Tony Wai Yee Tow, B.S. 1972; M.E. 1973, Cornell University; Elmhurst, New York
 Gerald James Ukrainski, B.S. 1975, Hunter College; Brooklyn, New York
 B. Jeffrey Wallis, A.B. 1975, Harvard University; Rhinebeck, New York
 Paul Brent Watkins, A.B. 1975, Cornell University; Scotia, New York
 Andrea Bertocci Webber, B.A. 1968, Radcliffe College; M.A. 1972, Columbia University; New York, New York
 Adrienne Lee Weiss, B.S. 1976, Cornell University; Valley Stream, New York
 Harold Wenger, B.A. 1974, State University of New York at Binghamton; Brooklyn, New York
 Steven Walter Werns, A.B. 1975, Cornell University; North Arlington, New Jersey
 Gary Peter Wilton, B.S. 1975, Cornell University; Westfield, New Jersey
 Jeffrey Philip Winick, B.A. 1975, Brandeis University; Framingham, Massachusetts

Second-Year Class

Linda Susan Altman, B.S. 1976, Cornell University; Tappan, New York
 Alpha Jerome Anders, B.S. 1976, Colorado College; Colorado Springs, Colorado
 Bruce Jefferson Aronow, B.S. 1976, Stanford University; Stanford, California
 Paul Stephen Baecher, B.S. 1976, Fordham University; Sea Cliff, New York
 Anthony John Barletta, B.S. 1976, Cornell University; Mount Vernon, New York
 James Stephen Bauman, B.A. 1976, Queens College; Bayside, New York
 Robert Nathan Belkin, A.B. 1976, Princeton University; Jericho, New York
 Ralph James Blair, II, B.S. 1976, State University of New York at Albany; Ogdensburg, New York
 James Colegrove Blankenship, A.B. 1976, Cornell University; Denville, New Jersey
 Patricia Ellen Boiko, B.A. 1976, Queens College; Bellerose, New York
 Michael William Born, B.A. 1976, University of Vermont; Euclid, Ohio
 Barbara Anne Burns, B.A. 1971, Hunter College; New York, New York

- Gary C. Butts, A.B. 1976, Columbia University; Brooklyn, New York
- Andrew Bruce Campbell, B.S. 1976, Rensselaer Polytechnic Institute; Bronx, New York
- Ellen Cohen, B.S. 1975, University of Massachusetts; Bronx, New York
- Charles Nelson Cornell, B.A. 1976, Williams College; Pelham, New York
- Lawrence Patrick Costello, B.A. 1962, University of North Carolina; Mount Kisco, New York
- Robert Leopold Danner, Jr., B.A. 1976, Johns Hopkins University; Florida, New York
- Harry Arthur Davis, B.A. 1969, Hofstra University; Olive Bridge, New York
- Bette May Demartini, B.S. 1968, Cornell University; M.S. 1972, New York University; New York, New York
- Ethan Dmitrovsky, A.B. 1976, Harvard University; Roslyn Heights, New York
- Jane Marie Doyle, B.S. 1976, Radcliffe College; New York, New York
- Mark Drucker, B.A. 1976, University of California at Berkeley; Pacific, California
- Joseph Eichenbaum, B.A. 1976, Yeshiva University; Lakewood, New Jersey
- David Keith Emmel, B.A. 1972, New York University; New York, New York
- Barbara Lynn Engelson, B.S. 1976, Cornell University; Bayside, New York
- Roslyn M. Feder, B.A. 1976, Brooklyn College; Brooklyn, New York
- Steven Allen Fiamengo, A.B. 1976, Columbia University; Redwood City, California
- Gail Iles Genvert, B.A. 1973, Smith College; Dunedin, Florida
- Laurie Ann Gordon, B.S. 1976, Yale University; Woodbridge, Connecticut
- Iris Ann Granek, B.S. 1974, Cornell University; New York, New York
- John Nezzzen Green, B.S. 1975, St. John's University; St. Albans, New York
- Damian David Gress, B.S. 1976, Syracuse University; Buffalo, New York
- Carolyn Heyward Grosvenor, B.S. 1976, Rensselaer Polytechnic Institute; Queens Village, New York
- Mark Gudesblatt, B.A. 1976, Johns Hopkins University; New Hyde Park, New York
- Walter Thomas Gutowski, III, A.B. 1976, Columbia University; Cedar Grove, New Jersey
- David Brian Hackney, A.B. 1976, Harvard University; Washington, D.C.
- Neil Hayes Halvey, A.B. 1976, Cornell University; Manhasset, New York
- David Elwood Hansen, B.A. 1976, Amherst College; Allendale, New Jersey
- Mark Andrew Heitner, B.A. 1972, Connecticut College; New York, New York
- Steven Herskovitz, B.S. 1976, State University of New York at Stony Brook; Brooklyn, New York
- Jennifer Cornelia Hill, A.B. 1975, Barnard College; Trumansburg, New York
- Martin A. Hirsch, B.A. 1976, Yeshiva University; Far Rockaway, New York
- Betsy Anne Holland, B.S. 1976, Stanford University; Menlo Park, California
- Edward Kevin James, B.A. 1976, University of Pennsylvania; New Shrewsbury, New Jersey
- Terrence Bertrand Jones, B.S. 1976, St. John's University; Sea Cliff, New York
- Neil Louie Julie, B.S. 1975, City College of New York; New York, New York
- Ronald Nathaniel Kaleya, A.B. 1976, Columbia University; Woodmere, New York
- Susan Aree KambhuNaAyudhaya, A.B. 1976, Radcliffe College; Cambridge, Massachusetts
- Frederick David Kaplan, B.A. 1976, Queens College; Bayside, New York
- Zaheer Sadruddin Karim-Jetha, B.S. 1976, Swarthmore College; Toronto, Canada
- Steven Toshihiro Kariya, A.B. 1976, Harvard University; Leonia, New Jersey
- Kevin Vincent Kelly, B.A. 1972, Williams College; M.A. 1975, University of Chicago; Princeton, New Jersey
- Martin Elliot Kessler, B.A. 1976, Queens College; Far Rockaway, New York
- Kathryn Elizabeth Kindwall, B.A. 1976, Mount Holyoke College; Weston, Connecticut
- Eric Martin Kitain, B.A. 1976, State University of New York at Stony Brook; South Hempstead, New York
- Jeffrey Kocher, A.B. 1976, Cornell University; Plymouth, Pennsylvania
- James Stephen Krinsley, A.B. 1976, Yale University; Larchmont, New York
- Spencer H. Kubo, A.B. 1976, Dartmouth College; River Edge, New Jersey
- Mark Bruce Landon, A.B. 1975, University of Pennsylvania; Forest Hills, New York
- Enid Lynn Leikin, B.A. 1976, Vassar College; Bethesda, Maryland
- Peter Michael Le Jacq, B.S. 1976, St. John's University; Manhasset, New York
- Noreen Helen Linn, B.A. 1976, City College of New York; Bronx, New York
- Robert Howard Lustig, B.S. 1976, Massachusetts Institute of Technology; Brooklyn, New York
- Hillel Y. Marans, A.B. 1975, Columbia University; Cedarhurst, New York
- Irma Maria Matos, B.S. 1976, Fordham University; Brooklyn, New York
- Joseph Michael McCune, III, A.B. 1975, Harvard University; Northbrook, Illinois
- Rosemary Ellen Meisner, B.A. 1970, University of Rochester; B.S., R.N. 1972, Columbia University School of Nursing; New York, New York
- Kenneth Edmund Merhige, A.B. 1976, Cornell University; Brooklyn, New York
- Robert Paul Naparstek, B.A. 1974, Queens College; New York, New York
- Roger Steven Nathaniel, B.S. 1976, Massachusetts Institute of Technology; Elmhurst, New York
- Gregory Jay Naus, B.A. 1974, University of Wisconsin; Sheboygan, Wisconsin
- Gary Jack Noel, A.B. 1976, Dartmouth College; Livingston, New Jersey
- Peter Michael Okin, B.S. 1976, Massachusetts Institute of Technology; Hartsdale, New York
- Peter James Palasota, III, B.A. 1973, Juilliard School; New York, New York
- David Martin Panicek, A.B. 1976, Cornell University; Johnson City, New York

- Rochelle Leeb Peck, B.S. 1970, University of Wisconsin; New York, New York
- Peri Petras, B.S. 1976, Queens College; Flushing, New York
- Bradley Arden Radwaner, B.A. 1976, University of Rochester; Bronx, New York
- Rupa Cook Redding, B.A. 1975, Swarthmore College; Glen Mills, Pennsylvania
- John Francis Reinus, A.B. 1970, Amherst College; New York, New York
- Michelle Antonia Rivera, B.A. 1976, New York University; New York, New York
- Christopher Anthony Ross, A.B. 1975, Princeton University; Englewood, New Jersey
- Carol Ann Rouzer, B.A. 1976, Western Maryland University; Hagerstown, Maryland
- Marc Rubin, Cornell University; Englewood, New Jersey
- Earl Victor Sandor, A.B. 1976, Columbia University; Jackson Heights, New York
- Karen Lynne Schneider, B.A. 1976, Queens College; North Woodmere, New York
- Allen Theodore Schwartz, B.S. 1976, Stevens Institute of Technology; Paterson, New Jersey
- Alexander Shadid, Jr., B.S. 1976, Harvard University; Elk City, Oklahoma
- Mary Montgomery Sickles, A.B. 1975, University of Pennsylvania; Clifton, New Jersey
- Shonni Joy Silverberg, B.A. 1976, Wesleyan University; Scarsdale, New York
- Steven Richard Silverstein, A.B. 1976, Harvard University; Dewitt, New York
- Kathy Anne Smachlo, B.S.; B.A. 1976, University of Rochester; Rexford, New York
- Mary Ann Regina Snowden, B.S. 1976, Brooklyn College; Brooklyn, New York
- Emilia Mia Sordillo, A.B. 1976, Radcliffe College; Malba, New York
- Mark Steven Tompkins, B.S. 1976, University of Kentucky; Henderson, Kentucky
- Thomas Philip Toomey, A.B. 1976, Harvard University; Miami Shores, Florida
- Walter Ira Torda, B.A. 1970, Columbia University; New York, New York
- Jason Gari Umans, B.S. 1976, Rensselaer Polytechnic Institute; Cedarhurst, New York
- Charles Jay Waisbren, B.S. 1976, Cornell University; Milwaukee, Wisconsin
- Gary Alan Weiser, B.S. 1976, Union College; Flushing, New York
- Karl Frederick Weyrauch, B.A. 1976, Swarthmore College; Silver Spring, Maryland
- Mark Zombek, B.S. 1976, City College of New York; New York, New York
- Stanley Waite Ashley, B.A. 1976, Oberlin College; Cooperstown, New York
- Kofi Atta-Mensah, B.A. 1977, Herbert H. Lehman College; New York, New York
- Carol Lynn Bayer, B.A. 1977, Wheaton College; Norton, Massachusetts
- Natalie Blagowidow, A.B. 1977, Cornell University; Jamaica, New York
- Francis Xavier Brickfield, Jr., B.S. 1977, Georgetown University; Brooklyn, New York
- Roberta Brockman, B.S. 1977, Yale University; Woodcliff Lake, New Jersey
- Anthony Cannon, B.S. 1977, Clark University; Bay Shore, New York
- Paul Bradley Chapman, A.B. 1977, Cornell University; Highland Park, Illinois
- Bruce David Charash, A.B. 1977, Cornell University; Woodbury, New York
- Leona Liyuan Chen, B.S. 1977, Washington University; Milwaukee, Wisconsin
- Charles Henry Chodroff, B.A. 1977, Haverford College; Plainview, New York
- James Lincoln Clarke, B.A. 1977, Princeton University; Pelham, New York
- Marcia Sue Clever, B.S. 1977, University of Pittsburgh; Natrona Heights, Pennsylvania
- David Arthur Cohen, A.B. 1977, Harvard University; Highland Park, New Jersey
- Howard Alan Cohen, B.S. 1977, Columbia University; New York, New York
- Elizabeth Concepcion, B.S. 1977, Herbert H. Lehman College; Bronx, New York
- Robert B. Cooper, B.S. 1977, Fordham University; Congers, New York
- Joan Alice Culpepper, B.S. 1977, Smith College; Bronx, New York
- John Anthony Day, A.B. 1974, Harvard University; Philadelphia, Pennsylvania
- Michael Jose Del Rio, B.A. 1977, New York University; New York, New York
- Michael David DeMeo, B.S. 1977, Cornell University; Floral Park, New York
- John Joseph Deri, A.B. 1973, Columbia University; New York, New York
- John Dombrowsky, B.S. 1977, Williams College; Great Neck, New York
- Walter Edmund Donnelly, Jr., B.A. 1977, College of Holy Cross; Worcester, Massachusetts
- John Edward Drace, B.A. 1977, Yale University; Palo Alto, California
- Lauraine Jean Effinger, B.A. 1974, Bryn Mawr College; West Caldwell, New Jersey
- Ann Louise Engelland, B.S. 1976, Yale University; New York, New York
- Steven Joseph Engrassia, B.S. 1977, St. John's University; New York, New York
- J. Stephen Fink, B.A. 1972, Trinity College; Ph.D. 1977, Cornell University; White Plains, New York
- Tim Alexander Fischell, Cornell University; Silver Spring, Maryland
- Raymond Fong, A.B. 1977, Harvard University; Queens, New York
- Robert Joel Friedlander, A.B. 1977, Yale University; Chappaqua, New York
- Ricki Friedman, B.A. 1976, Wellesley College; Scarsdale, New York

First-Year Class

- Kimberley Stratemeyer Adams, A.B. 1975, Radcliffe College; Carnegie, Pennsylvania
- Albert Ades, B.S. 1976, Emory University; Atlanta, Georgia
- Edward James Alexander, B.A. 1976, Amherst College; New York, New York
- Bradley Alan Arrick, B.A. 1977, Wesleyan College; San Francisco, California

- Rosemarie Reenberg Fusco, B.S. 1968, Hunter College; Ph.D. 1975, Columbia University; Tuxedo Park, New York
- Susan Diane Goodman, A.B. 1972, Barnard College; Bronx, New York
- Michael Louis Gordon, A.B. 1977, Columbia University; San Juan, Puerto Rico
- James Alan Goulet, B.A. 1977, Middlebury College; Cheshire, Connecticut
- Richard James Gray, B.A. 1976, Syracuse University; Lockport, New York
- Scott Henry Greenstein, A.B. 1977, University of Pennsylvania; West Orange, New Jersey
- Saadia Janette Griffith, B.A. 1977, University of Bridgeport; Queens, New York
- Elizabeth Emilee Guenther, B.A. 1974, St. Olaf College; White Bear Lake, Minnesota
- Gretchen Marion Haupt, B.S. 1977, Cornell University; Moscow, Idaho
- Alan Laurence Hillman, Cornell University; Rockville Centre, New York
- William Harold Hines, B.A. 1977, Amherst College; Winnetka, Illinois
- Robert Geary Holman, Cornell University; Tafton, Pennsylvania
- Penny Arline Jaffe, B.A. 1977, Smith College; Great Neck, New York
- Mae Carol Jemison, B.S. 1977, Stanford University; Chicago, Illinois
- John Moss Joelson, B.A. 1977; Hamilton College, Ridgewood, New Jersey
- Nachum Katlowitz, B.S. 1977, Brooklyn University; Brooklyn, New York
- Barbara Jo Koblenz, A.B. 1977, Barnard College; Bellerose, New York
- Michael Howard Kroll, B.S. 1976, Harpur College; Rochester, New York
- Audrey Rose Kupchan, B.S. 1976, Union College; Yonkers, New York
- Melissa Ellen Larsen, A.B. 1977, Smith College; Ridgewood, New Jersey
- Bonnie Gail Lemberg, B.S. 1977, State University of New York at Stony Brook; Queens, New York
- Kenneth Scott Lerrick, A.B. 1977, Harvard University; Chappaqua, New York
- Stanley Lipkowitz, B.A. 1977, Cornell University; Ferndale, New York
- Marcus Hsiu-Hong Loo, B.S. 1977, Cornell University; Bronx, New York
- Fernando Lopez, B.A. 1977, Queens College; Brooklyn, New York
- Andrea Lotze, A.B. 1977, Brown University; Brooklyn, New York
- Jay Donald Mabrey, A.B. 1977, Cornell University; Warren, Ohio
- Irene Magramm, A.B. 1977, Barnard College; New York, New York
- Patricia Mary McGraw, B.A. 1976, University of Oregon; Eugene, Oregon
- Wilson Herrick Miller, Jr., A.B. 1977, Princeton University; Shawnee Mission, Kansas
- Blaine Anthony Morton, B.S. 1977, Massachusetts Institute of Technology; Westbury, New York
- Keith Elliot Mostov, B.A. 1976, University of Chicago; Chicago, Illinois
- Benjamin Gilbert Neel, A.B. 1977, Cornell University; Cherry Hill, New Jersey
- Joseph Brady O'Connell, B.A. 1977, University of Rochester; West Hartford, Connecticut
- Roslyn Leah Posner, B.A. 1977, Washington University; New York, New York
- Michael Seth Rabin, B.A. 1977, Swarthmore College; West Orange, New Jersey
- Michael Jonathan Robbins, A.B. 1977, University of Pennsylvania; Mount Vernon, New York
- Ellen Barbara Rogin, Hunter College; New York, New York
- Neil Stuart Rosenthal, B.A. 1977, Wesleyan University; Putnam Valley, New York
- George William Rozakis, B.A. 1977, Case Western Reserve; Malverne, New York
- Gary Steven Rudolph, B.A. 1976, Adelphi University; Bellmore, New York
- Andrew Eric Sama, B.A. 1977, Columbia University; Franklin Square, New York
- Robert Issac Sassoon, B.A. 1977, Dartmouth College; White Plains, New York
- Paul Mitchell Schlosser, B.A. 1977, Cornell University; Short Hills, New Jersey
- Sharon Eve Selinger, A.B. 1977, Cornell University; Woodside, New York
- Keeyee Shum, B.S. 1977, Brooklyn College; Queens, New York
- Joel Michael Solomon, B.A. 1977, State University of New York at Buffalo; Dix Hills, New York
- Rafael Soltren, B.A. 1977, Amherst College; New York, New York
- Samuel Seth Spigelman, B.S. 1977, Stanford University; New York, New York
- Lala Maria Stawowy, B.A. 1977, Johns Hopkins University; Albany, New York
- Michael Dennis Steiner, B.S. 1977, Cornell University; West Hempstead, New York
- Charles Kingsbury Stone, B.A. 1977, Colgate University; Watertown, New York
- Sharon Ann Strong, B.A. 1977, University of Rochester; West Sand Lake, New York
- Loretta Anne Sullivan, B.S. 1977, College of Mount Saint Vincent; Jericho, New York
- Catherine Emily Tesluk, B.S. 1977, Loyola Marymount University; Sacramento, California
- David John Wagner, B.S.E. 1977, University of Pennsylvania; Baldwin, New York
- Stephanie Waldman, A.B. 1972, Barnard College; New York, New York
- Franklin Walker III, A.B. 1976, Harvard University; Williamsport, Pennsylvania
- Daniel Gerard Walsh, B.S. 1977, Georgetown University; Kansas City, Missouri
- Robert Francis Ward, B.A. 1972, Cathedral College of Immaculate Conception; Westbury, New York
- Mark Adam Weiss, A.B. 1977, Cornell University; Merrick, New York
- Judith Ellen Wolf, B.S. 1977, Yale University; Yonkers, New York
- Elizabeth Anne Wuerslin, B.S. 1974, Saint Lawrence University; Levittown, New York
- Joyce Marie Young, B.A. 1977, Trinity College; Harvey, Illinois

Cornell University

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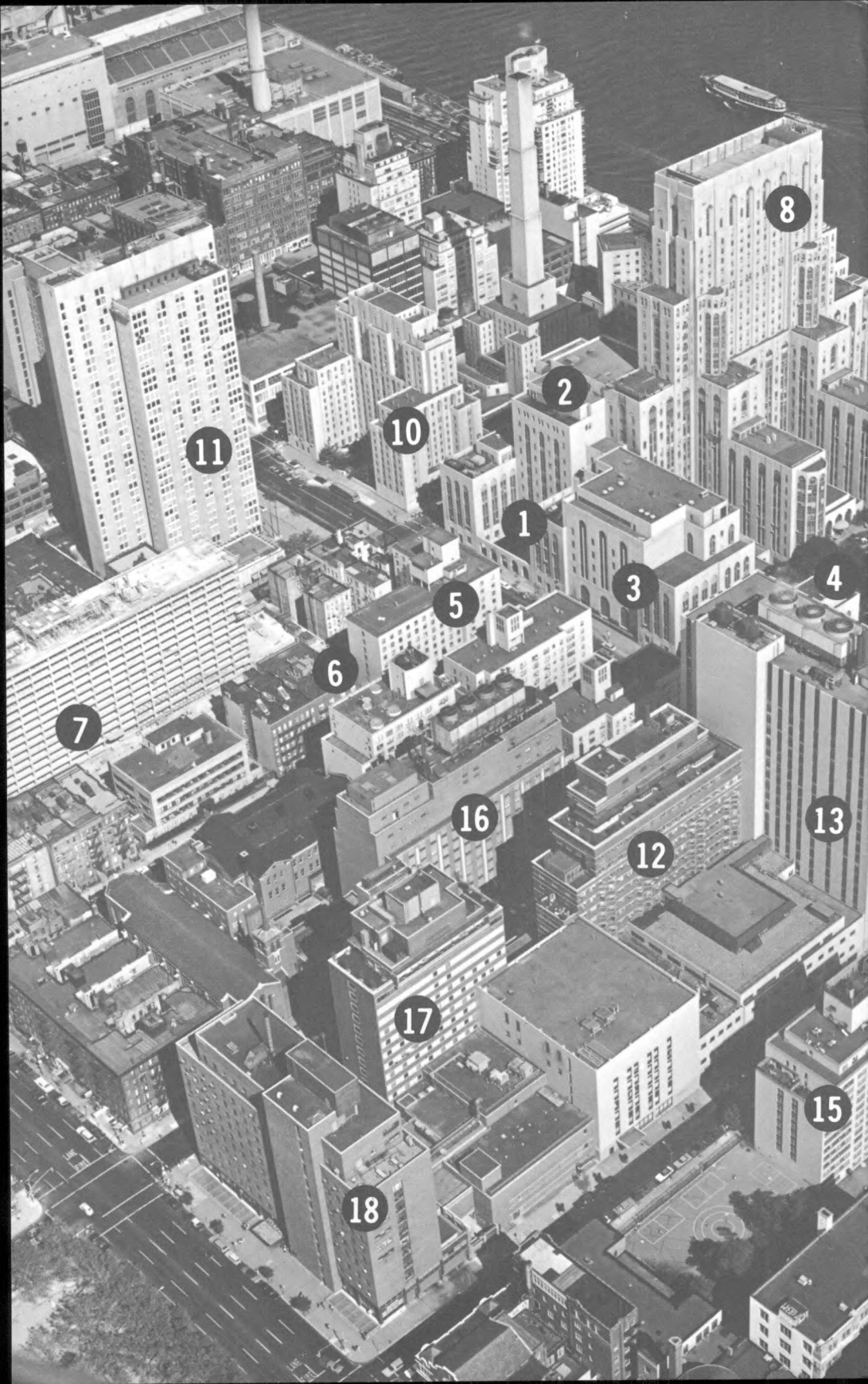
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Cornell University Medical College

- 1 Anatomy Building
- 2 William Hale Harkness
Medical Research Building
- 3 Samuel J. Wood Library
and Research Building
- 4 Biochemistry-Pharmacology Building
- 5 Olin Hall
- 6 Livingston Farrand Apartments
- 7 Lasdon House

The New York Hospital

- 8 The New York Hospital
- 9 Payne Whitney Psychiatry Clinic
- 10 Nurses' Residence
- 11 Payson House

Memorial Sloan-Kettering Cancer Center

- 12 Old Memorial Hospital Building
- 13 Memorial Hospital
- 14 Sloan House
- 15 Winston House
Sloan-Kettering Institute
- 16 Kettering Laboratory
- 17 Howard Laboratory
- 18 The Ewing Pavillion of Memorial Hospital

19 Rockefeller University

List of Announcements

Following is a list of *Announcements* published by Cornell University to provide information on programs, faculty, facilities, curricula, and courses of the various academic units.

Agriculture and Life Sciences at Cornell
College of Architecture, Art, and Planning
College of Arts and Sciences
Graduate School of Business and Public
Administration
Engineering at Cornell
Graduate Study in Engineering and Applied Sciences
General Information*
Graduate School
School of Hotel Administration
Human Ecology
School of Industrial and Labor Relations:
ILR at Cornell
Graduate Study at ILR
Law School
Medical College (New York City)
Graduate School of Medical Sciences (New York City)
Officer Education (ROTC)
Summer Session
New York State College of Veterinary Medicine

*The *Announcement of General Information* is designed to give prospective students pertinent information about all aspects and academic units of the University.

In addition to the *Announcements* listed above, the University publishes a master catalog of University courses, *Cornell University: Description of Courses*.

Requests for the publications listed above should be addressed to

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