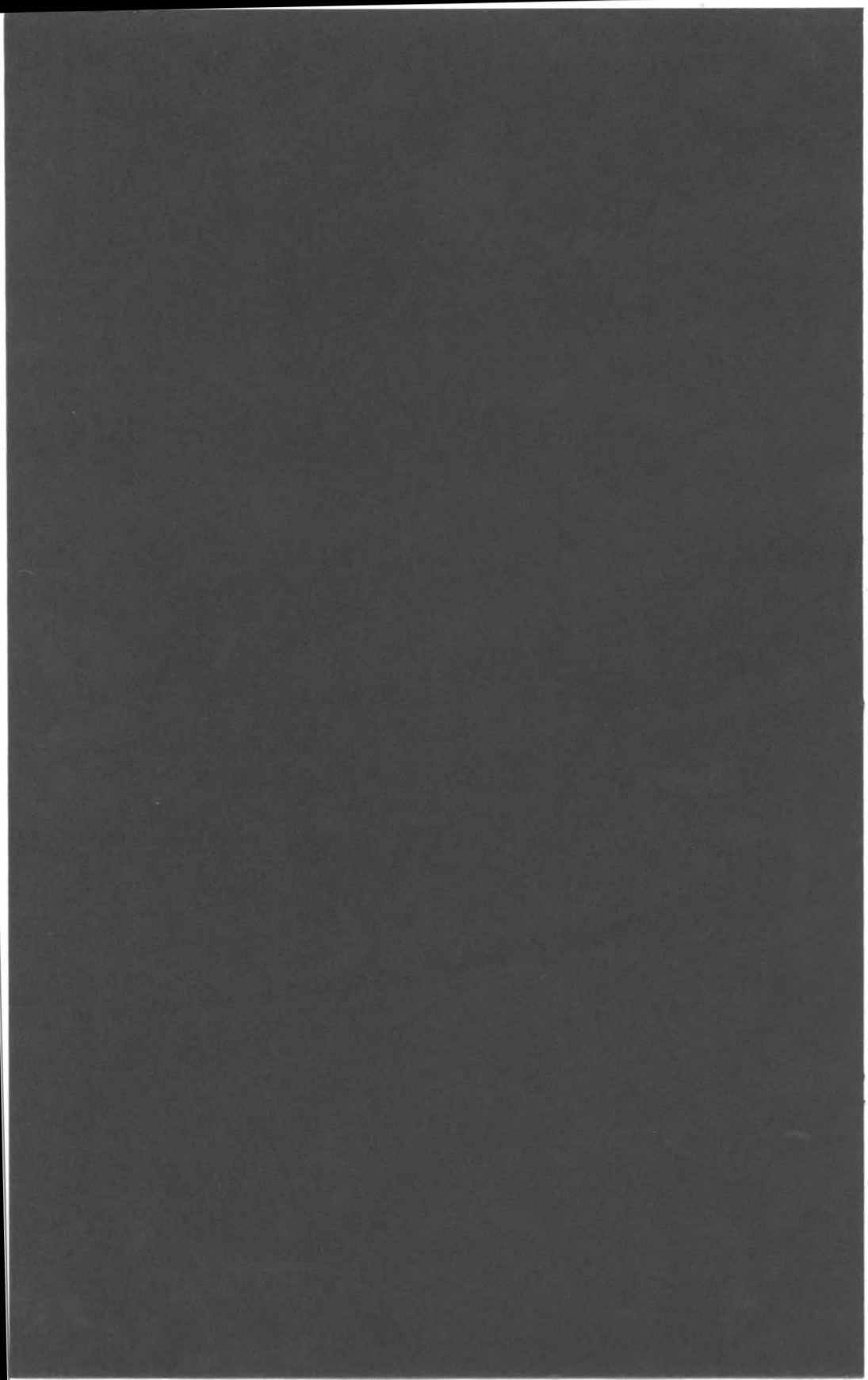




Cornell University
Announcements

Medical College



Cornell University

Medical College

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1973-74

Cornell University Announcements

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Announcement

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The courses and curricula described in this *Announcement*, and the teaching personnel listed herein, are subject to change at any time by official action of Cornell University.

1973-74

Medical College Calendar

First and Second Years

1973

Monday, September 3
Wednesday, September 5—Friday, September 7

Friday, September 7
Monday, September 10
Wednesday, November 21
Thursday, November 22—Friday, November 23
Monday, November 26—Saturday, December 1
Monday, December 3
Friday, December 14

December 25

Labor Day, holiday
Orientation and Registration for First Year
Registration for Second Year
Opening Exercises, 3 p.m.
Instruction begins, 9 a.m.
Fall Term ends, 5 p.m.
Thanksgiving holiday
Examinations
Beginning of Winter Term
Instruction ends, 5 p.m., Christmas recess
begins
Christmas Day, holiday

1974

Tuesday, January 1
Thursday, January 3
Friday, March 1
Monday, March 4—Saturday, March 9
Monday, March 4—Saturday, March 16
Sunday, March 10—Sunday, March 17
Monday, March 18
Saturday, April 13—Sunday, April 21
Monday, May 27
Friday, May 31
Monday, June 3—Wednesday, June 5
Friday, June 7
Monday, June 10—Wednesday, June 12

New Year's Day, holiday
Christmas recess ends, instruction begins 9 a.m.
Winter Term ends, 5 p.m.
Examinations for Second Year
Examinations for First Year
Spring recess for Second Year
Spring Term begins for First and Second Years
Spring recess for first year
Memorial Day, holiday
Instruction ends for Second Year, 5 p.m.
Examinations for Second Year
Instruction ends for First Year, 5 p.m.
Examinations for First Year

The dates shown in the Academic Calendar are subject to change at any time by official action of Cornell University.

Third Year

1973

Monday, September 3	Labor Day, holiday
Tuesday, September 4	Registration; instruction begins for Third Year
Monday, October 29	First rotation of Section II, Divisions C, D and E
Thursday, November 22	Thanksgiving Day, holiday
Monday, November 26	Rotation of Section I, Divisions A and B
Saturday, December 15, 1 p.m.— Thursday, January 3, 8 a.m.	Christmas recess

1974

Thursday, January 3	Second rotation of Section II, Divisions C, D and E
Monday, February 25	Midyear rotation of all divisions of Sections I and II
Monday, April 15—Saturday, April 20	Spring recess
Monday, April 22	First rotation of Section I, Divisions C, D and E
Monday, May 20	Rotation of Section II, Divisions A and B
Monday, May 27	Memorial Day, holiday
Monday, June 10	Second rotation of Section I, Divisions C, D and E
Thursday, July 4	Independence Day, holiday
Saturday, August 3	Instruction ends for Third Year

Fourth Year

1973

Tuesday, September 4	Registration
Thursday, November 22	Thanksgiving Day, holiday
Saturday, December 15—Thursday, January 3	Christmas recess

1974

Thursday, May 23	Instruction ends, 1 p.m.
Wednesday, May 29	Commencement, 3 p.m.

Elective Modules

A September 4—October 27	(8 weeks)
B October 29—December 15	(7 weeks)
C January 3—February 16	(7 weeks)
D February 18—April 6	(7 weeks)
E April 8—May 23	(7 weeks)

In enacting this calendar, the Medical College has scheduled classes on religious holidays. It is the intent of Senate legislation 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 dual aims the development of the best possible physicians and the advancement of medical knowledge through research. The faculty believes that in the ideal medical school high-quality teaching and widely ranging investigations in the life sciences are carried on concurrently with 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 facilities available in a large population area. The original faculty was composed of a group of distinguished professors who had previously 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 four million dollars 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. 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.

Facilities for Instruction

The Medical College

Instruction in the medical sciences is conducted in the 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 Medical College Alumni Office (Room C-140), the Office of Admissions (Room D-115) and the Student Affairs Office (Room C-118) are located directly behind the Library. 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, 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 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 faculty of 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, Biomathematics, 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 1,076 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. He 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 19 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 Mamaroneck 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 his maximum potential, the Center offers its diagnostic, evaluative, and treatment services to those of all ages who have need for medical rehabilitation 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.

Memorial Hospital for Cancer and Allied Diseases

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 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 449 beds.

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.

North Shore University Hospital

North Shore 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 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 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 Hospital.

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 which 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 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 speedily.

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, social, and educational maturation seem 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 which 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 coursework 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 Admissions Committee of Cornell University Medical College selects a class of about one hundred students from over 3500 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 origin, or sex.

Admission policies are also in conformity with the policy of New York State in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

Application

Requests for application forms should be addressed to the Committee on Admissions, Cornell University Medical College, 1300 York Avenue, New York, New York 10021. For entrance in September, application forms are available after July 1 of the previous year.

To complete an application, a student should:

1. submit the completed application form to the Committee on Admissions no later than the deadline of November 30. A non-refundable charge of \$25.00 is made for filing an application. Checks or money orders should be made payable to Cornell University Medical College.
2. arrange to have official transcripts of all undergraduate and graduate studies, including summer school, sent to the Committee on Admissions.
3. request a letter of evaluation from the college premedical advisory committee be sent to the Committee on Admissions. Two letters of evaluation from members of the faculty well acquainted with the student may be substituted.
4. request the results of the Medical College Admission Test (MCAT) be sent to the Committee on Admissions, if the applicant has taken this examination. Applicants to Cornell are not required to take this test but the Committee on Admissions will review the results of this test if it has been taken.

Although the Committee on Admissions will attempt to notify the applicant if his application is incomplete, the responsibility for completing these requirements is that of the applicant.

When a completed application has been received together with official transcripts and letters of recommendation, the Committee on Admissions reviews the application and requests personal interviews from applicants in whom it has serious interest. Because of the large number of applications, only about one-third of the applicants are invited for an interview. With few exceptions, all students accepted for admission to Cornell University Medical College have been interviewed personally by the Committee or its representatives.

Applicants are promptly notified of the final decision of the Committee on Admissions beginning some time after mid-December. If the Committee takes favorable action, a letter of acceptance is forwarded to the applicant who has two weeks either (1) to hold a place in

the class in order to make a final decision at a later date (not later than March 1) or (2) to accept a place in the class by sending a deposit of \$100. This deposit is not refundable after March 1, and is credited toward the first tuition payment.

Cornell University Medical College does not participate in the American Medical College Admissions System (AMCAS).

Advanced Standing

When vacancies occur, students may be admitted to advanced standing. Applications for a place in one of the upper classes should be filed according to the procedure described for admission to the first-year class. Applicants who are accepted are required to make a deposit of \$100. Candidates seeking admission to advanced standing must furnish evidence of having completed satisfactorily, in an approved medical school, all of the work required of students in the class which they wish to enter. In addition, these candidates must have completed the conditions of admission to the first-year class at Cornell University Medical College. They must also present a certificate of honorable dismissal from the medical school, or schools, they attended, and may be required to take examinations in any of the medical courses taken in another school.

Additional information about application to the Medical College is contained in the booklet *Information for the Applicant-1973*, which may be obtained from the Committee on Admissions, 1300 York Avenue, New York, New York 10021.

Special Students

All students not registered in the Cornell University Graduate School of Medical Sciences or not registered for the M.D. degree are special students.

Such students are special students in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for an undergraduate degree.

Special students are admitted only by the consent of the head of the department, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory work. There is a matriculation fee of \$10 and an administration fee of \$5. Tuition fees vary depending upon the type of work taken. A breakage fee may be required.

Educational Policies and Plan of Instruction

The Medical College is divided into seventeen departments. Seven of the departments are primarily concerned 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 chairmen 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.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. 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. 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 his 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 course of study according to his 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.

Elective Time

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 a student has completed this clinical "core" curriculum, he is sufficiently acquainted with the various clinical specialties to have identified his primary areas of interest, both in the clinical and basic science fields. Accordingly, he is prepared to plan an educational program, for his final medical school

year, which is best suited to his interests and needs.

In the spring of the third year, each student chooses a senior faculty member as an adviser to help him in planning his 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 program is entirely elective. Thirty-five weeks long, it is divided into elective periods which match the modules of the third year. This enables students who have sound educational reasons to defer certain modules of the third-year core curriculum until the final year.

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 his 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.

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 graduate education in the many areas available at the Rockefeller University, under the direction of the Rockefeller faculty. Students completing the program receive an M.D. degree from Cornell University and a Ph.D. degree from the Rockefeller University.

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 by the Rockefeller University and then select the program most consistent with his research and career goals. Both coordinated programs are normally expected to require about six calendar years of study and both offer the same tuition and stipendary support. Although the program with Rockefeller University can only be entered initially, the program with the Graduate School of Medical Sciences 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.

Questions about these programs should be addressed to: Office of Admissions, Cornell University Medical College, 1300 York Avenue, New York, N.Y. 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 leading 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. The Fellows receive a stipend of \$100 per week, and are housed in Olin Hall, the medical students' dormitory.

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 cardio-vascular physiology. The afternoons of these days are used for a series of discussions of health problems of ghetto 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 usual Cornell medical curriculum is divided into four successive academic years, each of which builds upon the subject material of the preceding year. Generally, a student must complete all of the course work of one academic year before he can be approved for advancement by the faculty. Any student who, by quality of work or by conduct, indicates an unfitness to enter the medical profession, may, following due process, be required, at any time, to withdraw from the Medical College.

At the end of each academic term, a student's performance is normally evaluated in all of the required and elective courses of that term. A student's final rating in a course is determined by his performance in all of the course work including an evaluation of his effort, his seriousness of purpose, his scholastic resourcefulness, and the results of examinations.

A final rating is made for each student at the end of the academic year based on the results of his performance in all of the courses in the curriculum of that year. These final ratings are made by formal action of the faculty after review of recommendations of the Committee on Promotion and Graduation. This final rating places students into one of four groups:

1. **Passed.** Ordinarily, students are recorded as "passed" only if they have no deficiency in any subject. This rating confers eligibility for readmission to the Medical College in the next higher class unless, in instances of special concern, an *ad hoc* committee of the faculty determines the student unsuited for the medical profession.

2. **Conditioned.** Students who fail any required or elective courses are recorded as "conditioned". A "conditioned" student will be reevaluated by the concerned faculty prior to the beginning of the next academic year and subject to conditions determined by the faculty. Students with a failure in one course after a single reevaluation will be required to remove the "conditioned" status before the end of the next academic year. Students with failures in two courses after reevaluation will be required to repeat the year.

3. **Not passed.** If, after reevaluation, a student has failures in three courses in any one year, he is recorded as "not passed". A rating of "not passed" carries ineligibility for readmission to the Medical College.

4. **Special Review.** Students with generally marginal performance for two or more years

are subject to special review by the Committee on Promotion and Graduation. Students with a record of this kind who are judged unqualified to continue medical studies at Cornell will be ineligible for readmission to the Medical College.

At the close of every academic year, each student is notified of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well-recognized institutions as credentials in support of his 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 shall pay, or satisfactorily arrange, all accounts due the University at least ten days before the time for conferring degrees.

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 has outstanding indebtedness to the University, which is in arrears, shall not be allowed to register or re-register in the University, receive a transcript of his record, have his academic credits certified, be granted a leave of absence, or have a degree conferred.

Application Fee. A nonrefundable charge of \$25.00 is made for reviewing each application.

Acceptance Deposit. Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His 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 \$2680 (starting July, 1973). It is payable at the beginning of the academic year or in three equal parts, the first of which must be made at registration. For fourth-year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance. The following are included in the tuition fee:

1. **Matriculation Fee.**
2. **Student Hospitalization Insurance.** This insurance (for the calendar year) is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives 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 standing who is hospitalized in The New York Hospital. It assures the usual Blue Cross plan 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 distributed approximately as follows: first year, \$325; second year, \$300; third year, \$175; fourth year, \$60.

Each student is required to provide himself

with a microscope of an approved type. The instrument should have scanning (3-5 X), low-power (10 X) and medium-power (40 X) dry objectives. It is important that the coarse adjustment of the scope permit a clearance of at least 30 mm between the 10 X 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. Arrangements can be made to purchase a microscope from the College Book Store after arrival, if the student desires. Monocular microscopes are available for rental at \$50 a year. A limited number of binocular microscopes are available for rental at \$85 a year. Anyone wishing to rent one should write to the Office of Admissions, to make reservations as early as possible.

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 sources 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.

Awards to entering students are made on the same basis as to students already enrolled. An applicant's financial situation should be accurately described in his application for admission, and he should discuss any anticipated need for financial help with members of the admissions committee when he is interviewed. An applicant who has been accepted for admission and has indicated his 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.

Anonymous Scholarship Fund. This fund, established by a gift from an anonymous donor, is used to provide scholarships for worthy medical students who are in need of financial assistance.

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 his studies but who would find it impossible or impracticable 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 medical student.

The Siegfried and Josephine Bieber Scholarship Endowment. The income from the endowment, given by 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."

The 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.

The 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.

Robert J. Carlisle Fund. This fund, established by donations from the Society of Alumni of Bellevue Hospital, is used for special assistance of worthy students.

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

The Coppermines Foundation Scholarship Endowment. Endowed by a generous gift from the Coppermines Foundations, 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 Berkoff 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 medical students who are especially in need of financial assistance.

John E. Deitrick Scholarship Fund. This fund, established by a gift from The New York Hospital-Cornell Medical Center Foundation, Inc., in honor of Dr. John E. Deitrick, formerly Dean of the Medical College, is used to provide scholarships for worthy medical students who are in need of financial assistance.

Dr. Harry Eno Scholarship Endowment. Established in 1955 by the gift of 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 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.

The Joseph P. Ferrigan Endowment. The income from this endowed fund 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 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 Guion Scholarship. Providing annual tuition for a student of the Medical College, this scholarship was established by Mr. and Mrs. Vincent de Roulet to express their gratitude to Dr. Connie Guion.

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.

The 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 medical 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. Hirschl Scholarship. This fund, supported by a trust under the will of Irma T. Hirschl, grants annual scholarships to medical 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 medical 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. Hirschl 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 judgement 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.

The Samuel Hollander Prize Endowment. The income from an endowed fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical 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.

The Dr. Charles I. Hyde '10 and Eva Hyde Scholarship Endowment. Established 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 who are in need of assistance.

The Robert Wood Johnson Foundation Student Aid Program. This grant provides support over four academic year (1972-73 through 1975-76) for scholarship awards to women students, students from rural backgrounds, and those from the country's Black, Indian, Mexican-American, and U.S. 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 was established in 1936. 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 was established in 1939. 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.

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 medical students who are in need of financial assistance.

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.

The Dr. George A. and Nora W. Newton Scholarship Endowment income 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. Ikle. They are to extend "scholarship assistance to needy and overburdened medical 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 Scholarship Fund. In 1963, a fund to honor Dr. Gustave J. Noback was established by an anonymous donor 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 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.

The Pfizer Laboratories Scholarship. A scholarship, which is contributed annually by the Pfizer Laboratories Medical Scholarship Program, is awarded to a medical student who is in financial need.

The 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 Cornell University Medical College students.

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 post-

graduate training in the Payne Whitney Psychiatric Clinic.

The 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 medical students interested in carrying out research work in social psychiatry.

The 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 medical students. A preference is to be given to descendants of Anna E. Ray Robinson and of her husband's brothers and sisters.

The Dr. Jacques Saphier Scholarship Endowment

was established 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 Cornell University 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 Cornell University 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 medical 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 F. 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.

The 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 either to 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 Foundations, 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 medical students may have available further funds to help defray the rising costs of medical education."

The 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.

The 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 medical students of the Cornell University 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 medical 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 Regents Examination and Scholarship Center, New York State Education Department, Albany, New York 12210. The scholarships granted are:

Scholar Incentive 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 pre-professional study.

Scholarships for Women Students

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 Cornell University 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.

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

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

Marie and John Zimmerman Fund. The income from this endowment fund, established by a gift from the Marie and John Zimmerman Fund, Inc., is used to aid needy and worthy women medical students.

General Aid

The Benjamin T. Burton Memorial Fund has been established through the bequest of Benjamin T. Burton, long-time friend of Cornell University Medical College and a member of the class of 1922, Cornell University. It was his wish that these funds be used for any purpose that the dean of Cornell University Medical College deems to be in the best interest of the 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 Funds. The Medical College makes loans available to students from a portion of the income from an endowment fund which is provided through the Alumni Association. Students in the upper classes will be given preference.

Student Loan Fund. A revolving fund contributed through different sources, including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Bookstore, is 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.

New York State Guaranteed Loans for State Residents. Students seeking New York State guaranteed loans should apply to the New York Higher Education Assistance Corporation, 111 Washington Avenue, Albany, New York 12210.

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

The 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 Cornell University 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 submitted in quintuplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than April 15.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

The Prizes for 1973 were awarded to Allan Gibofsky and Arvin H. Chin.

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 his junior year.

For 1973 this Prize was awarded to Mark S. Klempner and Mark H. Mazur.

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 his fourth year.

For 1973 this Prize was awarded to Henry R. Bleier.

The 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 chairman of the Department of Medicine.

For 1973 this Prize was awarded to Mark H. Mazur.

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 intangible qualities of "The Good Physician".

For 1973, the Award was presented to W. Michael Scheld.

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 Prize in 1973 was awarded to Neil D. Ravin.

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.

The Prize in 1973 was awarded to Gene D. Resnick.

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.

In 1973, the Prize was awarded to Mark C. Sivakoff.

The 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 Cornell University 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 Cornell University Medical College.

In 1973, the Prize was awarded to Mark S. Klempner.

National Foundation Merit Award. The National Foundation offers a cash Merit Award to the medical 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 by April 15.

This award was not given in 1973.

The Gustave J. Noback Memorial Prize Fund in Anatomy. Established in 1962 by an anonymous donor in memory of Dr. Gustave J. Noback, who is remembered for his great kindness and generosity to all his students, and also for his work in research and sculpture. The income of 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.

This prize was not awarded in 1973.

The 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.

This prize was not awarded in 1973.

The John Metcalfe Polk Prizes for General Efficiency. Three Prizes, financed by the income from an endowed fund, are given in commemoration of John Metcalfe 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' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

For 1973, the Prizes were awarded to Henry R. Bleier, Mark S. Klempner, and Mark H. Mazur.

The 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.

In 1973, the Prizes were awarded to Richard M. Linchitz and Benjamin A. Lipsky.

The 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 medical 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 1973.

The 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 1973, the Prize was awarded to William R. Blankenship.

The 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 of Cornell University Medical College 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 1973, the Prize was awarded to Michael J. Murphy.

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 clinical pathology course. The candidate for the prize is recommended by the Professor of Clinical Pathology.

This prize was not awarded in 1973.

The 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.

The Award for 1973 was presented to Peter J. Corines.

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 1973.

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, Dr. Harold G. Wolff. The Prize consists of a cash award and a selection of the writings which represent Dr. Wolff's most creative scientific contribu-

tions. 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. A written report of the research should be submitted in quintuplicate to the Associate Dean's Office by April 15.

The Prize for 1973 was awarded to Robert C. Young.

Named Professorships

The following are the endowed, 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 chair has not yet been filled.

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. Dr. Fritz Fuchs, present occupant of the chair, has as his principal research interest the endocrinology and physiology of human reproduction.

The Roland Harriman Professorship of Cardio-Vascular Medicine was established with a gift from Mr. and Mrs. E. Roland Harriman in 1963. The first and present occupant of the chair is Dr. Thomas Killip III, head of the Division of Cardiology in the Department of Medicine. Dr. Killip, a 1952 graduate of the Medical College, has specialized in research studies aimed at reducing mortality from myocardial infarction.

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, chairman of the department and professor of psychiatry since his appointment at Cornell in 1962, is the first occupant of the chair.

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 first and present occupant of this chair is Dr. Paul A. Ebert, chairman of the Department of Surgery and Surgeon-in-Chief of The New York Hospital.

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 first occupant is Dr. Edward H. Ahrens, Jr., professor at Rockefeller University as well as professor of medicine at Cornell University Medical College.

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 world-wide. 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 present Lewis Atterbury Stimson Professor of Surgery is Dr. C. Walton Lillehei. He succeeded Dr. Frank Glenn upon Dr. Glenn's retirement in 1967.

The Anne Parrish Titzell 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 and present occupant of this chair is Dr. Robert F. Pitts, who was chairman of the Department of Physiology and Biophysics from 1950 through 1972.

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.

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 Foundation, Inc., the sum of \$....."

Honorary Societies

Alpha Omega Alpha

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which 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 1973 were: Henry Bleier, Amelia Burnham, Mark Klempner, Richard Linchitz, Mark Mazur, Stuart Mushlin, Peter Nieh, Terrence O'Malley, Stanley Rosenbaum, Richard Ryter, Michael Scheld, Sherman Sorensen, William Taylor, JoAnn Theodore, Brian Walker, and Jeffrey Wasser.

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

Richard T. Silver '53, President
Carl G. Becker '61, Vice President
Frederic T. Kirkham, Jr., '47, Secretary
George R. Holswade D'43, Treasurer
William A. Barnes '37, Chairman, Medical College Fund

Directors

Four-year term:

Arthur R. Beil, '59
Donald A. Fischman, '61
Neil C. Klein, '60

Two-year term:

Richard C. Austin, '50
William R. Eastman, '42
Kathryn H. Ehlers, '57
Richard M. Sallick, '62

Executive Secretary

Harriet Peppel

Military Advisers

The following members of the faculty 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, Clinical Assistant Professor of Medicine (Navy)
August H. Groeschel, Assistant Professor of Public Health (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

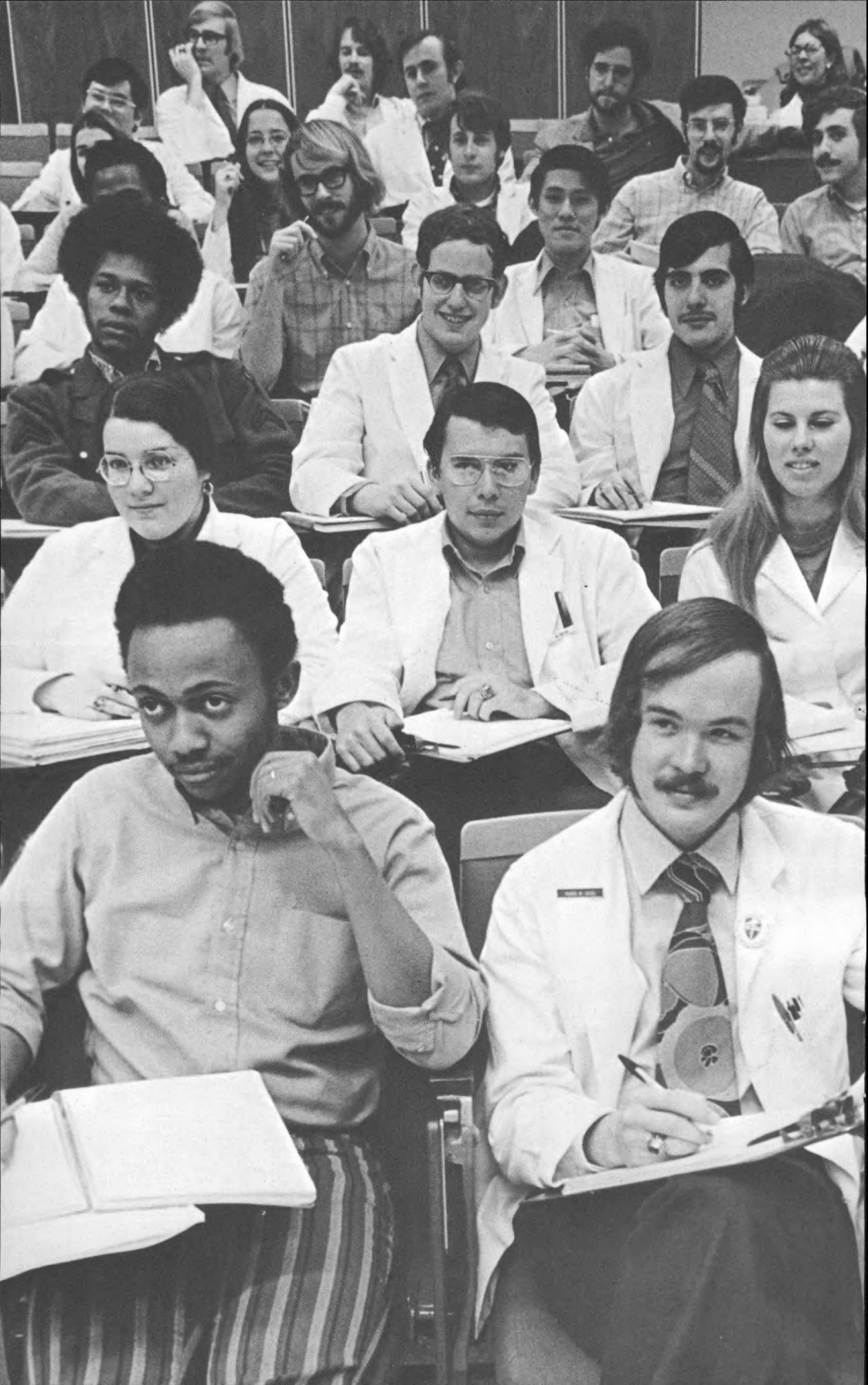
Service of the Medical Center. All members of the first-year class and students transferred to advanced standing from other schools are required to have a physical examination which is given by a member of the Health Service staff. In addition, each student must have a chest X ray, tuberculin test and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for an X ray, 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 insurance is currently in effect through a previous policy. The cost of the insurance for each student is included in the tuition. Those students who wish to enroll their wives and families in the insurance program may do so by paying an additional fee. Office hours are held daily from 1:00 to 2:00 p.m. by the Health Service staff. 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. Wives 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 \$790; for a full year (twelve months), \$950; and for periods of less than an academic year, \$85 per month. Several cafeterias are available in the main college and hospital buildings.

There are a limited number of apartments available through the Medical College for married students.

Jacob S. Lasdon House, an apartment residence now under construction at 430 East 70th Street, will provide housing for Medical College students as well as for students of the Graduate School of Medical Sciences and the School of Nursing. This building, which has been made possible by a gift from the estate of the late Mr. Lasdon, is to be completed and ready for occupancy by September, 1974.



Cornell University

Departments of Instruction

Anatomy

Professors

R. C. Swan, Joseph C. Hinsey Professor of Anatomy, Chairman; J. M. Bedford; D. Bennett; D. C. Brooks; J. L. Sirlin

Clinical Professor

A. E. Inglis

Associate Professors

M. D. Gershon; W. D. Hagamen; T. H. Meikle, Jr.

Clinical Associate Professor

J. L. German, III

Assistant Professors

F. G. Girgis; M. D. Hamburg; T. C. Rodman; J. C. Weber

Clinical Assistant Professors

J. L. Marshall; G. Stassa

Visiting Assistant Professor

D. Soifer

Instructors

R. Bachvarova; G. Dooher; D. R. Pollard; M. Spiegelman

Research Associate

K. Artzt

Visiting Research Associate

S. B. Murphy

Research Fellow

J. C. Bovarnick

Assistants

J. Barbour; J. Caldwell, M. Costello; V. DeLeon; C. Dreyfus; B. Kaplan; L. Manber; L. Morioka; T. Rothman; M. Steinberg; J. M. S. Winterkorn; B. Wood

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 which constitute 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 structural 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. Foregoing 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. For, 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 three courses for practical reasons. Gross Anatomy is most effectively studied by regions; microscopic and developmental anatomy, by structural and functional systems. The brain and spinal cord are most effectively studied concurrently in their gross and micro-

scopic 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 his 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 interdepartmental course in neuroscience in cooperation with the Departments of Neurology and Physiology. Lectures correlate the 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. Each week, in a one hour conference, a patient will be presented whose case illustrates the application of anatomical concepts. Following each case presentation, the concepts will be discussed in depth.

First trimester: Weeks, 11. Unlimited enrollment. R. C. Swan.

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

First trimester: Weeks, 11. Unlimited enrollment. G. Stassa.

Genetic and Biochemical Correlates of Development. A series of lectures and student seminar workshops, approaching embryology from both a molecular biologist's and a geneticist's viewpoint. The problems of early differentiation in a variety of organisms including the mammal will be explored in the light of available biochemical and morphological evidence. Selected examples of gene-environment interactions and drug induced malformations will be discussed.

Second trimester: Weeks, 11. Unlimited enrollment. R. Bachvarova and D. R. Pollard.

Advanced Genetics. Designed to give the student a sound background in genetical theory, is an in-depth consideration of the gene as a unit of heredity.

First trimester: Weeks, 11. Unlimited enrollment. D. R. Pollard.

Embryology. Presented in a series of weekly lectures which cover development of the human embryo from fertilization to the appearance of the major organ systems. Examples of abnormal development leading to congenital malformations are described, and some results obtained from experiments on lower vertebrates are discussed which illustrate major processes of development.

First trimester: Weeks, 11. Unlimited enrollment. R. Bachvarova and D. Bennett.

Clinical Anatomy of the Extremities and Back. A functionally and clinically oriented introduction to the extremities and back. There will be, each week, 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 of the Division of Orthopedics of the Department of Surgery.

Second trimester: Weeks, 11. 50 students. F. G. Girgis, A. E. Inglis, J. L. Marshall, G. Stassa, and R. C. Swan.

Graduate Genetics Seminar Course. Fall, 1973: Genetics of Differentiation in Higher Organisms. Spring, 1974: Human and Medical Genetics.

First and Second Semesters. Weeks, 30. Unlimited enrollment. Special course prerequisite: at least one course in formal genetics. D. Bennett and J. L. German.

Cortex and Higher Nervous Function. A series of seminars will consider aspects of the following topics: cortical morphology, cortical electrical activity, and current research efforts on the role of the cortex in learning, memory, and emotion.

Third trimester: Weeks, 11. 25 students.
Neuroscience Faculty.

Anesthesiology

Professors

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

Clinical Professors

B. E. Marbury; M. J. Topkins

Associate Professor

O. Schweizer

Clinical Associate Professors

H. L. Erlanger; D. Tausig

Assistant Professors

J. G. Halvorstam; G. M. Ryan

Clinical Assistant Professors

L. L. Balazs; R. G. Barile; D. Borovac;
J. L. Fox; A. H. Goulet; A. F. Kass; L. J. Maggio; J. McCormick; J. Schwartz; D. G. Susman; L. Turner; D. Vuckovic; J. K. Weingram

Clinical Instructors

S. Armengol; H. Brown; G. G. Curtis; P. L. Goldiner; S. Gunasti; M. Johnson; I. Lin;
R. C. Lin; E. Lobrin-Farcon; T. V. Miles;
L. Miranda; J. Nagy; I. Neuhaus; S. Restituto;
S. Rooney; R. A. Rossi; H. Shifrin; L. Silver;
A. Wightman

Fellows

H. Alviar; R. C. Carabuena; H. H. Chang;
P. V. Chithran; K. L. Choi; S. J. Chun; H. Kim;
D. H. Lee; R. Leff; M. A. Meier; J. Planner;
A. Resurreccion; E. Sia-Kho; M. T. B. Tjeuw;
F. S. Yao

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 which 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. In this experience, students spend time in the operating rooms and laboratories seeing how the principles of pharmacology and physiology are put to practical use in the management of the anesthetized patient.

Fourth Year

A clinical program of four or eight weeks either in the New York Hospital or in Memorial Hospital is offered to fourth-year students. The student is assigned to an attending anesthesiologist, whom he assists during preoperative visits, in administering anesthesia, and in post-operative and recovery care. Teaching emphasis is placed on respiratory physiology, therapy, and resuscitation. The student is given increasing responsibility during the elective period. A four- or eight-week laboratory research program under the direction of A. Van Poznak is also available. It offers experience in research methods in the study of anesthetic agents. Other research projects are offered at Memorial Hospital under the direction of W. S. Howland.

Biochemistry

Professors

A. Meister, Israel Rogosin Professor of Biochemistry, Chairman; A. S. Posner; J. R. Rachele; A. L. Rubin (Surgery)

Adjunct Professor

B. L. Horecker

Associate Professors

R. W. Bonsnes; E. M. Breslow; J. Goldstein;
R. H. Haschemeyer; C. Ressler; K. H. Stenzel (Surgery); D. Wellner; K. R. Woods

Assistant Professors

J. S. Cheigh (Surgery); G. W. Dietz, Jr.;
G. F. Fairclough, Jr.; H. Gilder (Surgery);
S. S. Hotta; R. R. Riggio (Surgery); W. B.
Rowe; E. T. Schubert; J. F. Sullivan (Surgery);
S. S. Tate

Instructor

L. Tapia (Surgery)

Research Associates

J. F. Betts; N. Blumenthal; A. Boskey; A. Ray;
S. Silk; R. A. Stephani; P. J. Tannenbaum;
V. P. Wellner

Fellows

D. S. David (Surgery); M. Hochreiter; O. O. A.
Isiadinso (Surgery); R. V. Krishna; A. G. Palekar;
K. E. B. Platzer; A. Sabih; P. P. Trotta;
R. P. White (Surgery)

Assistants

B. Brennessel; B. A. Cervenak; A. J. L. Cooper;
L. DeLap; L. Estis; A. Ferrara; E. Hafner;
T. P. Hopp; M. Horowitz; S. L. Lundt; N. M.
Relyea; P. G. Richman; R. Sekura; M. Shen;
R. Soave; J. Stevens; L. Tarantino; P. Van
Der Werf

Courses

Basic 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. To achieve this goal, basic biochemical information will be presented and integrated with selected nutritional and health problems of concern to physicians, by means of lectures, small group conferences, and participation in clinical rounds.

First trimester: consideration will be given to the chemical and physical properties of biomolecules, enzymology, and the metabolism of carbohydrates, lipids, amino acids, and nucleic acids; clinical problems associated with these subjects.

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.

General Biochemistry (Biochemistry 2A). The first part of this introductory course in biochemistry, designed for graduate students and qualified medical students, will be given during

the first trimester. The basic goal of the course is to achieve an understanding of the thought processes necessary to design and execute biochemical experiments, to interpret the data obtained, and to integrate the results with existing knowledge. Some lectures will be concerned with a detailed consideration of specific biochemical research papers. Students who have taken a college course in biochemistry should have a meaningful familiarity with about one third of the material.

Concern will be with the biological, chemical, and physical techniques that are basic to biochemical research, and will include detailed study of the structure and physical-chemical properties of compounds of biological importance.

General Biochemistry (Biochemistry 2B). A continuation of Biochemistry 2A. Offered during the second trimester. Detailed consideration will be given to the metabolism of carbohydrates, lipids, amino acids, and nucleotides.

Advanced Biochemistry. Lectures and conferences on recent developments in biochemistry for graduate students and qualified medical students. Hours and credits to be arranged.

Biochemical Preparations and Techniques. Laboratory work dealing with the isolation, synthesis, and analysis of substances of biochemical importance (enzymes, coenzymes, various metabolites, and intermediates), and study of their properties by various chemical and physical techniques. For graduate students and qualified medical students. Hours and credits to be arranged.

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

Elective Options**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 1973-74 are as follows:
Composition of Normal and Pathological Amniotic Fluid (Dr. Bonsnes)
Study of Neurophysin-Hormone Interaction (Dr. Breslow)
Protein-Metal Ion Interactions (Dr. Breslow)
The Synthesis of Biological Membranes (Dr. Dietz)
The Mechanism of Induction of Glucose-6-Phosphate Transport in *Escherichia Coli* (Dr. Dietz)
Glucose-6-Phosphate Transport in Membranes Prepared from *Escherichia Coli* (Dr. Dietz)
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)

Identification of Fibrinogen Chains involved in
the Covalent Crosslinking of Fibrinogen by
Factor XIII during Blood Clotting (Dr.
Haschemeyer)

Study of the Hexose Monophosphate Shunt
and Glutathione Reduction (Dr. Hotta)

Human Brain Enzymes (Dr. Meister)

X-Ray Diffraction Study of Bone (Dr. Posner,
Dr. Betts and Dr. Boskey)

Infrared Study of Bone (Dr. Posner and Dr.
Blumenthal)

The Utilization of Methionine Analogues and
Homologues by Wild and Methionine-Requiring
Strains of *Neurospora Crassa* (Dr. Rachele)

Study of Cyanoamino Acids as Specific Enzyme
Inhibitors (Dr. Ressler)

Metabolism of New Synthetic Amino Acids
(Dr. Ressler)

The Role of Immunological Enhancement in
Allograft Survival (Dr. Riggio)

Distribution of the Enzymes of Glutamate
Metabolism in Mouse Brain Synaptosomes
(Dr. Rowe)

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, the
student is referred to the Catalog of Electives.

Medicine

Professors

A. G. Bearn, Chairman; E. H. Ahrens, Jr.,
Hilda Altschul Master Professor of Medicine;
E. Becker; W. A. Briscoe; J. R. Buchanan;
J. H. Burchenal; C. L. Christian; H. Cleve;
F. Daniels, Jr.; R. L. Engle, Jr.; R. A. Good;
S. J. Hadley; L. E. Hinkle, Jr.; N. B. Javitt;
A. Kappas; T. Killip, III, Roland Harriman Pro-
fessor of Medicine; E. H. Luckey; W. McDermott
(Public Affairs); W. P. Myers; R. L. Nachman;
H. F. Oettgen; R. E. Peterson; G. G. Reader;
L. Scherr; J. J. Smith; M. Sonenberg; D. D.
Thompson

Clinical Professors

B. Alexander; J. Baroness; M. Dworetzky
(Allergy); A. Feder; W. Kammerer; B. H. Kean
(Tropical Medicine); F. T. Kirkham, Jr.;
A. B. Ley; W. J. Messinger; R. T. Silver;
D. P. Torre; R. F. Watson

Adjunct Professors

V. P. Dole; J. G. Hirsch; H. G. Kunkel;
M. McCarty; N. E. Miller (Psychology); A. H.
Samii; K. L. Zierler

Associate Professors

D. Armstrong; D. V. Becker; R. S. Benua;
N. Brachfeld; B. D. Clarkson; B. S. Danes;
M. Gady; E. L. Gottfried; S. J. Gulotta; P. C.
Harpel; H. O. Heinemann; R. W. Houde;
J. R. Hurley; L. J. Kagen; T. King; I. H. Krakoff;
M. Lipkin; S. D. Litwin; D. S. Lukas; A. J. Marcus;
W. Nagler; M. J. Polley (Immunology); R. B.
Roberts; B. B. Saxena (Biochemistry); P. Sher-
lock; M. Shils; G. Siskind; P. E. Stokes;
P. Vanamee

Clinical Associate Professors

S. Advocate; W. Anderson; L. I. Arditi; S. C.
Atkinson; L. T. Barnes; C. A. Berntsen, Jr.;
E. L. Bodian; J. L. Brown, Jr.; D. J. Cameron;
H. A. Carr; A. D. Chaves; W. N. Christenson;
H. E. Claremont; E. J. Cohen; J. A. Covey;
T. J. Degnan; J. W. Dougherty; R. E. Eckardt;
W. J. Eisenmenger; B. E. V. Ejrup; H. R. Erle;
A. W. Feinberg; J. T. Flynn; W. T. Foley;
A. H. Freiman; W. Geller; J. M. Glynn; R. B.
Golbey; G. W. Gorham; K. O. Guthrie, Jr.;
L. L. Heimoff; R. A. Herrmann; R. B. Hochman;
M. Horwith; D. W. Hoskins; A. S. Jacobson;
J. H. Katz; G. L. Kauer, Jr.; D. S. Kent;
H. Koteen; J. S. LaDue; J. S. Lieberman; E. J.
Lorenze; D. Margouleff; K. Mayer; D. G. Miller;
W. J. Noble; I. Nydick; M. A. Payne;
M. Perlmuter; R. A. R. Pritchett; J. Richard;
E. A. Riley; W. C. Robbins; T. N. Roberts;
B. Rogoff; I. Rosenfeld; E. Schwartz; A. W.
Seligman; J. P. Smith, Jr.; L. S. Sonkin;
H. Steinberg; A. E. Timpanelli; M. Tulin;
A. O. Wells; S. A. Winawer; A. L. Winston

Adjunct Associate Professor

T. J. Kindt (Human Genetics)

Visiting Associate Professor

I. Percy-Robb

Assistant Professors

K. P. Adler; H. A. B. Al-Mondhry; D. C. Argyros;
K. J. Berenyi; S. T. Carver; M. Coleman;
F. C. DeFuria; E. E. Deschner (Radiobiology);
A. B. Dimich; M. B. Dowling, Jr.; L. B. Drusin;
T. S. Gee; J. L. Granda; J. G. Hayes; Y. Hirshaut;
V. R. Hrehorovich; T. G. Hutteroth; M. Isaacs;
E. Jaffe; W. D. Johnson, Jr.; T. C. Jones;
V. A. Joy; M. H. Kaplan; N. Kaplowitz; N. L.
Keller (Biochemistry); Y. T. Kim (Immunology);
H. Klein; S. A. Kline; C. S. LaMonte; R. D.
Leeper; C. J. Lightdale; R. W. Lightfoot;
M. D. Lockshin; G. Magill; E. Mansell; J. B.

Morrison; E. A. Nunez (Physiology); M. Ochoa, Jr.; V. Padmanabhan; B. N. Park; P. E. Phillips; T. Pickering; P. Rathnam (Biochemistry); A. Rifkind; E. O. Rothschild; R. A. Schaefer; S. S. Scheidt; E. Scheiner; R. L. Sherman; J. K. Smith; C. Smithen; C. R. Steinberg; M. P. Sykes; A. Ullmann (Social Work); V. P. Vinceguerra; G. I. Wadler; B. E. Weksler; M. E. Weksler; G. Wilner; M. J. Wolk; S. D. J. Yeh; C. W. Young

Clinical Assistant Professors

H. E. Abel; R. R. Abel; R. A. Baer; R. J. Baliff; B. Benjamin; H. Z. Benjamin; M. Berkun; H. Bienenstock; R. T. Binford, Jr.; G. Bondi; R. G. Brayton; M. Brettler; M. A. Clark; V. A. Cipollaro; D. E. Cohen; I. R. Cohen; R. L. Collier; C. S. Connolly; F. P. Coombs; D. S. Cox; J. A. Cramer; M. Davis; M. T. Diamond; C. H. Diehl; K. Dittmar; A. L. Edwards; A. N. Ehrlich; R. A. Eskesen; E. Ettinger; G. A. Falk; T. J. Fahey, Jr.; S. Farber; J. A. Finkbeiner; C. E. Forkner, Jr.; M. Gaudino; D. L. Globus; D. Gluck; B. H. Goldberg; H. Goldin; M. J. Goldstein; C. H. Goodsell; E. J. Greenberg; R. P. Hand; M. J. Hanley; M. L. Heilbroun; A. C. Hill; N. J. Isaacs; A. Kara; I. Katka; R. J. Kaufman; N. C. Klein; E. M. Kline; M. J. Kreek; L. S. Kryle; M. Kurtz; M. J. Lacher; H. L. Leder; B. J. Lee, III; L. R. Lese; M. G. Lewisohn; S. D. Lindo; L. B. Lowe, Jr.; N. M. Luger; N. T. Macris; J. W. Magill; L. U. Mailloux; M. R. Marciano; D. G. McKaba; G. A. McLemore, Jr.; A. W. Mead; A. E. Mirkinson; D. W. Molander; M. Nydick; M. Nyswander (Psychiatry); L. Pedersen; R. Perkins; F. S. Perrone; A. Potor; J. H. Prunier; M. Rivelis; C. S. Rosen; A. S. Rosenberg; N. Rosenthal; A. M. Ross; E. Rudd; C. M. Samet; L. Scharer; L. H. Schuyler; S. Schutzer; F. A. Seixas; C. Sheard, III; G. H. Silverman; H. A. Sinclair; A. G. Snart; H. A. Solomon; H. J. Spoor; P. H. Stern; L. Strauss; R. Thoburn; R. J. Timberger; F. A. Tomao; L. B. Turner; L. Vinnick; L. J. Vorhaus; L. A. Wallis; J. M. Weiss (Psychology); H. S. Weiss; J. M. Wertheim; P. C. White, Jr.; M. L. Wiedman; R. J. Winchester

Adjunct Assistant Professor

D. P. Lawler

Instructors

G. Birnbaum; T. da Cruz; K. McL. Fink; J. E. Franklin; N. L. Gulco; M. T. Herald; J. L. Imperato; R. T. Mossey; C. M. Pinsky; L. M. Reich

Clinical Instructors

E. M. Aronow; R. S. Ascheim; J. R. Bakke; F. H. Block; J. Blumberg; I. H. Blumenfeld; M. J. Bradford; S. H. Brethwaite, Jr.; E. V.

Calvelli; M. W. Conovitz; L. R. Corn; A. H. Covey; C. P. Deal, Jr.; E. J. Desser; J. C. Dreyfus, III; R. Erickson; E. R. Esakof; K. A. Ewing; R. D. Geller; J. S. Gitlin; J. H. Gordon; V. R. Grann; T. Hsu; P. J. Imperato; L. A. Janoff; T. P. Jernigan; S. Katz; L. Klein; R. Kloogman; I. W. Kramer; M. Larsen; M. Levine; M. M. Lichtman; K. Link; F. C. Losito; J. F. Marchand; R. S. Martin; I. I. Mason; M. Masur; N. E. McGrath; H. A. McManus, Jr.; S. C. Mead; S. I. Michael; G. P. Mirrer; R. W. Nagler; R. R. Nenner; S. A. O'Shaughnessy; P. A. Orens; L. D. Pace; G. E. Paley; V. K. Petzold; R. E. Phillips; G. A. Piccione; S. M. Reiss; C. Ressler; B. M. Rosoff; M. Rubenstein; D. G. Schwartz; P. C. Schwartz; A. Sedaghat; B. H. Shalette; M. G. Smilay; L. M. Soletsky; J. Tesoriero; P. G. Tolins; T. L. Tuttle; R. J. Ulberg; W. P. Wagner; K. A. Whelan; S. S. Yormak; D. A. Zackson

Research Fellows

B. D. Dworkin; M. G. Goldberg; F. Haour; P. Klass; E. Kok; W. L. Marsh; J. L. Meyer

The program for the Department of Medicine is based on a number of 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 a laboratory or clinical level. (3) The scope and limitations of medicine are best revealed through the demands and responsibilities of patient care.

It is evident that a large number of options are open to those pursuing a career in medicine; a diversity which 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 be competent and content in his career choice, and that he 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 him thoughtfully to explore and evaluate 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 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 his experiences, the student 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 being recognized as the foundation of medicine.

The purpose is to provide the student with an overview of medicine so that he may gain perspective of his initial efforts and feelings. The areas to be explored and examined include (1) the training and development of the physician, (2) the patient-physician relationship, and (3) the clinical application of concepts and knowledge derived from Gross Anatomy.

The student will be instructed in basic skills of clinical medicine and provided with the opportunity to examine patients.

Growth and Development of the Normal Personality and the Impact of Serious Illness on Patients. An interdisciplinary course offered by members of the Psychiatry, Public Health, Pediatrics and Medicine departments. The initial lectures and discussions focus on the development of the normal personality and the learning process from infancy through adolescence. This area is further developed by examining the psychodynamics of the family and of old age. In the remaining sessions, the student is introduced to interviewing techniques so that he may discuss with patients the impact of illness and hospitalization. The problems encountered in interviewing and the influence of illness on the individual's life are reviewed in small discussion groups.

Second Year

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

Physical Diagnosis. The methods of physical examination and history-taking are taught in lectures and demonstrations which utilize audio-visual aids. In addition, students in small groups further develop their skills in clinical examination under the direct supervision of a tutor. Patient examinations are conducted at The Cornell Cooperating Hospitals: New York, Memorial, and North Shore.

Pathophysiology. Designed to correlate the pathophysiology of the various organ systems with associated symptoms, physical signs, and diagnostic procedures. Presentations include lectures and illustrative case studies which are discussed within small groups. Instruction is also given in the laboratory techniques commonly used to examine blood and urine.

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 is an integral member of a medical team that is responsible for the care of patients. The student obtains the patient's history, performs the physical examination and basic laboratory tests, and records his findings. His 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. He actively participates in the continued care of the patient in part to verify or alter his 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

J. L. Beebe; Z. P. Harsanyi; M. J. Lyons

Assistants

R. B. Carey; D. M. Fowlkes; D. Gibbs;
G. Karpinsky; R. Kascsak; P. Le Blanc;
M. Motyl; B. A. Pancake; L. D. Rabbani; L. A.
Radov; C. Seymour, III; W. Suling

Required Course

Second Year

Microbiology and an Introduction to Infectious Diseases.

Presented in the first and second trimesters of the second year. Consists of laboratory experiments, lectures, and group discussions. Laboratory work includes an introduction to the procedures used in studying microorganisms, experiments on various physical and biological manifestations of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, and bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and prevention of infectious disease. Special attention is also given to the immunological principles underlying such noninfectious conditions as hypersensitivity, autoimmunity, and rejection of tissue transplants.

For students who wish to carry out research, opportunities are available in laboratories of the Department of Microbiology under guidance of individual faculty.

Elective Options

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

Microbial Chemistry and Physiology. The concern is with literature and methodology pertinent to physicochemical properties of microorganisms and their environments, the growth and death of microorganisms, chemical composition of cells 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, micro-

biological assay, extraction of cellular constituents, respirometry, and studies of substrate utilization employing radioactive metabolites. Minimum prerequisites for credit are: general microbiology, qualitative and quantitative analysis, organic chemistry, and at least one semester (or its equivalent) of biochemistry.

Third trimester. Two lectures and two laboratory periods weekly. Dr. O'Leary.

Advanced Immunology. Concerns current concepts regarding antigen and antibody structure, the physical and biological manifestations of antigen-antibody reactions, and recent developments in studies on the cellular basis of immunity, including antibody formation. Laboratory will cover the isolation, purification, and quantitation of antibodies, the critical measurement of antigen-antibody reactions, histological mechanisms during the immune process, and *in vivo* effects of specific antigen-antibody reactions.

Minimum prerequisites for credit are introductory immunology (as given in courses in general microbiology) and at least one semester (or its equivalent) of biochemistry. A semester course in histology or microscopic anatomy is desirable.

Third trimester. Two lectures and two laboratory periods weekly. Dr. Sussdorf.

Advanced Virology. Concerns modern concepts and techniques of virology, including consideration of the following topics: physical and chemical properties of viruses; structure-function relationships; viral genetics; the molecular biology of viral morphogenesis; the molecular and cell biology of viral infections, viral oncology; viral infections at the level of organism and population; 'slow' viruses, newer infectious agents (viroids); and the interferon system.

Prerequisite: completion of second year course in Microbiology.

Third trimester. Two lecture-seminars and laboratories weekly. Dr. Lyons.

Advanced Microbial Genetics. Concerns examination of selected concepts of molecular genetics using both prokaryotic and eukaryotic microorganisms 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. Designed to elucidate the genetic methods available for studying hereditary material.

Third trimester. One lecture and selected laboratory sessions weekly. Dr. Harsanyi.

Advanced Diagnostic Microbiology. Concerns procedures used and technique of management of a clinical microbiology laboratory. Emphasis will be upon developing the student's capability in the isolation and rapid identification of organisms from various types of clinical specimens. Liberal use will be made of clinical materials available through the diagnostic laboratories of the New York Hospital.

Third trimester. Two lectures and two laboratories weekly. Dr. Senterfit.

Clerkship in Diagnostic Microbiology. Concerns training and practical experience in Diagnostic Microbiology as it is practiced in a large hospital laboratory. The opportunities of a clerkship in the diagnostic microbiology laboratories of The New York Hospital are available to students with an interest in this area.

Any trimester. Dr. Senterfit.

General Microbiology. Concerns a wide range of general knowledge of the subject for students minoring in microbiology and for non-minors who want a background in the subject. Not primarily intended for students majoring in the subject who already have an extensive background from undergraduate work. Aspects of microbiology covered include fundamental procedures, microbial growth and physiology, genetics, immunology and serology, virology, plant and animal pathogens, and applied microbiology. Auditors from all fields and divisions are welcome.

First and second trimesters. Personnel of the Field of Microbiology at the Medical College and the Sloan-Kettering Division.

Fourth-year Elective Options

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 (Dr. Scherer)
Teaching of Microbiology (Dr. Scherer)
Research in Microbiology
Clerkship in Diagnostic Microbiology
(Dr. Senterfit)

Advanced Immunology (Dr. Sussdorf)
Microbiology Seminar (Dr. Lyons)
Microbial Chemistry and Physiology (Dr. O'Leary)

Advanced Diagnostic Microbiology
(Dr. Senterfit)

Advanced Virology (Dr. Lyons)
General Microbiology (Dr. Hutchison and Dr. O'Leary)

Microbial Ecology (Dr. O'Leary and Dr. Beebe)
Microbial Genetics (Dr. Harsanyi)

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

Neurology

Professors

F. Plum, Anne Parrish Titzell Professor of Neurology, Chairman; E. H. Lenneberg (Psychology); F. H. McDowell; J. B. Posner; D. J. Reis

Adjunct Professor

R. W. Hornabrook

Associate Professors

H. R. Beresford; H. Kutt; H. deC. Peterson; W. R. Shapiro

Clinical Associate Professors

M. A. Green; T. C. Guthrie; G. H. Klingon

Assistant Professors

G. Birnbaum; I. Black; J. J. Caronna; N. L. Chernik; T. E. Duffy (Biochemistry); T. H. Joh; M. A. Nathan (Physiology); F. Petito; G. E. Solomon; M. Somasundaram; R. D. Sweet; P. Tsairis; C. G. Wasterlain

Clinical Assistant Professors

W. A. Camp; R. H. Coll; I. D. Schlesinger; L. N. Travis; P. H. Zweifach (Ophthalmology)

Instructors

K. E. Foley; B. Hindfelt; A. Jacobs; J. Kessler; D. E. Levy; M. Olson; R. C. Vannucci; D. F. Young

Research Associates

F. Vergara-Edwards; R. Yanney

Visiting Research Associate

P. M. Field

Fellows

M. Baten; R. C. Collins; G. C. Ebers; S. Eytan; S. Fish; R. W. Hamill; L. Kelman; F. Lublin; J. Madirossian; V. S. Murthy; J. C. Perlmutter; D. M. Pietrucha; D. A. Rottenberg; G. A. Vas

The Department of Neurology has three inseparable responsibilities: patient care, teaching, and research. The faculty supervises the care of patients with neurological diseases at all four of the major teaching hospitals that make up the Cornell Medical Community: The New York Hospital, Memorial Hospital, the Hospital for Special Surgery, and the North Shore Hospital. This rich exposure to patients with

many different types of diseases and the rewarding experiences of providing care to patients from many geographical and social backgrounds are shared by undergraduate students and those training in the specialty of neurological medicine. The research laboratories and programs of the Department are located within the geographical confines of the school itself and at the several hospitals. These laboratories conduct both fundamental and clinically applied programs seeking the basic answers to neurological diseases and new ways to improve the delivery of already available treatments to patients. Among others, the research projects include the search for, and application of, 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 chemicals that will improve the anticonvulsant management of patients with epilepsy.

Two goals guide the teaching of students. One is to encourage them to learn diagnosis and treatment by gaining a thorough knowledge of the specific physiology and biochemistry of the major neurological diseases. The other is to transmit some of our beginning understandings of the way the brain functions as an adaptive organ regulating both man's internal milieu and his outward behavior. A few clinical-physiological demonstrations are conducted in the first year, but 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 of abnormal signs and symptoms. There are weekly bedside experiences with the students in pairs, under an instructor's guidance, examining patients with neurological disease.

Third Year

A one-month clinical clerkship is spent on the neurological pavilion of either the New York Hospital or the 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 are 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 New York and North Shore Hospitals. Dr. McDowell provides a varied outpatient elective which guarantees the student contact with 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, Given Foundation Professor of Obstetrics and Gynecology, Chairman; J. M. Bedford (Reproductive Biology); S. J. Birnbaum; E. E. Kramer; J. L. Lewis, Jr.; B. B. Saxena (Endocrinology)

Clinical Professors

H. R. K. Barber; R. W. Bonsnes (Biochemistry); E. W. Davis, Jr.; A. N. Fenton; W. P. Given; G. G. Hawks; R. Hertz; D. G. Johnson; R. Landesman; R. A. Ruskin; G. Schaefer; W. J. Sweeney, III; H. J. Tatum

Associate Professors

C. G. Beling (Endocrinology); H. M. Gandy (Endocrinology); S. R. B. Nordqvist; S. Silagi (Genetics)

Clinical Associate Professors

M. I. Buchman; M. S. Burnhill; D. J. Casper; H. Dubrow; W. F. Finn; B. M. Garinkle; C. Goldmark, Jr.; E. A. Graber; J. C. Greenwald; S. T. Horwitz; F. E. Lane; C. C. Marcus; S. L. Marcus; F. W. Martens; J. J. O'Rourke; M. A. Platt; S. F. Ryan; E. D. Schwartz; E. T. Steadman; L. F. Vosburgh; R. E. Wieche

Visiting Associate Professor

W. L. Freedman

Assistant Professors

L. L. Cederqvist; G. W. Cooper, Jr.; G. Farahani; W. B. Jones; T.-S. Li; P. Rathnam (Endo-

crinology); D. J. Rothe; Z. I. Saary; J. R. Wrathall (Genetics)

Research Assistant Professor

A. Fuchs

Clinical Assistant Professors

J. M. Astrachan; N. K. Basile; A. Brockunier, Jr.; S. Cohn; J. T. Cole; J. G. Davis; R. J. Derman; V. du Vigneaud, Jr.; B. Garfinkel; W. Gladstone; E. Hakim-Elahi; R. E. Hardy; A. Heltai; D. F. James; S. A. Kaufman; R. E. Kaye; R. Livingston; J. Mahoney; B. Nathanson; G. G. Panter; V. K. Pierce; F. Silverman; S. Soichet; A. Tanz; W. Walden; V. Werden

Instructors

A. F. Chung; J. H. Freel; N. H. Lauersen; S. Rosenberg; K. Vasudeva

Clinical Instructors

S. L. Bednoff; J. D. Blumberg; J. H. Brander; R. M. Caplan; P. Concannon; J. A. D'Urso; M. Eichler; A. J. Felice; R. Fitzgerald; B. Greenblatt; H. Guyer; J. C. Kotarcki; W. L. Kron; E. O. Kubec; D. J. Leahy; B. D. Lecher; B. Lieberman; J. W. Malkary; V. F. Mastrotta; P. Mazarella; R. Melnick; M. C. Morrison, Jr.; W. B. Paley; J. I. Paris; W. Requero; A. S. Sherwin; S. Siegal; P. Soffer; J. A. Spiegel; E. Weisfogel; J. Zaia; M. Zuckerman

Visiting Instructor

A. M. Lomeo

Fellows

C. Anikwue; A. T. Bozza; L. Cardi; T. Castaldo; P. Conrad; S. S. David; H. F. Gardstein, Jr.; B. F. Helmkamp; H. Jimenez; S. Kahner; H. L. Karbiner; R. B. Lewis; E. K. C. Mok; M. L. Resnick; M. Strongin; B. Tisch; L. Vijayalakshmi; K. Wortman; I. Zervoudakis

Research Fellows

K. R. Park; P. D. Temple-Smith

Required Courses

Second Year

Orientation and Introduction to Gynecology

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 Practical 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. Small seminars are held during this time to supplement the didactic instruction. A conference is conducted each morning from 8 to 9 a.m. for those students assigned to the delivery floor. 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. Mondays, 9 a.m. to 12 noon.

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. Specific clinical disorders such as repeated pregnancy wastage, erythroblastosis fetalis, and the anemias and toxemias of pregnancy, are presented in detail. Monday 1 to 3:30 p.m.

Course III. Gynecological Oncology. Instruction in and discussion of malignant neoplastic disease and its early recognition; the basic concepts of radiation therapy of malignant disease in the female generative tract. The genital organs and their specific malignancies including trophoblastic diseases are discussed individually. Friday 9 to 11 a.m.

Course IV. Reproductive Biology. The endocrine principles of the normal menstrual cycle are presented in detail as a basis for understanding functional and dysfunctional conditions which affect women at the various stages of life. Study of the endocrinology of pregnancy and labor is directed toward a better understanding of the physiology and pathology of pregnancy, particularly prematurity. Friday 2 to 3 p.m.

Departmental Staff Conferences and Rounds

A weekly staff conference is held on Mondays, from 4 to 5:30 p.m. Rounds on Fridays, from 11:30 a.m. to 1 p.m. Symposia and instructive

case reports are presented with student participation.

Seminars in Reproductive Physiology

Seminars embracing current aspects of the basic sciences as applied to obstetrics and gynecology are held periodically. A conference on Gynecological Endocrinology is held monthly.

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 on-going 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

S. I. Brown; H. Katzin; I. H. Kaufman; H. Lincoff; W. L. Peretz; A. Turtz

Clinical Assistant Professors

H. Breslin; T. Cherubini; B. Curtin; E. F. Constantine; L. Harris; R. Harrison; D. Karlin; P. Laino; A. Mamelok; M. Obear; R. Raskind; S. S. Snyder; P. Zweifel

Instructors

P. Odell; M. Smithline

Clinical Instructors

S. Bloomfield; I. Llovera; M. Lieberman; H. Z. Lin; S. Packer; S. Veronneau

Fellows

D. Aronian; N. Hargett; B. Mondino; J. Soorani

Research Fellows

J. Rosen; M. Wolkstein

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 sixteen groups which participate in three weekly afternoons of presentation, discussion, and actual pathological case examinations. Each session concentrates on one phase of clinical ophthalmology. The entire series rounds out the most frequent ophthalmic pathological entities.

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. Then the student observes the actual surgery and follows through with postoperative care and discussions with the resident staff. During the elective, the student can also observe in the various ophthalmic research units. Each Thursday, the student attends teaching rounds with the resident and attending staff presenting interesting and problem cases for detailed review and discussion.

Otorhinolaryngology

Professor

J. A. Moore, Acting Chairman

Clinical Associate Professors

J. M. Holman; G. C. Mueller; J. R. Williams

Clinical Assistant Professors

W. M. Glass; J. H. Seward; J. F. Struve

Instructors

P. Jovanovic; I. Kho; R. W. Selfe

Clinical Instructors

F. W. Farrell; W. F. Flynn; S. Geller; S. Howe; M. H. Markham; N. J. Pastorek; W. S. Schley

Fellows

L. Dropkin; M. D. Lee; R. J. Perrotta

Required Courses

Second Year

Instruction begins in the third term of the second year. Three sessions of two hours each are provided in otorhinolaryngologic problems as part of the course in Physical Diagnosis. There are approximately 30 students in each of the three instructional periods.

Third Year

The third year is divided into four terms. In each term 11 or 12 students spend 5 or 6 periods of three hours each in the otorhinolaryngology out-patient clinic. These sessions are held on Tuesday afternoons from 1 to 4 p.m., in the out-patient clinic. Students gain experience with patients who are being considered for surgical therapy. They work up the patients, taking full histories and performing physical examinations on the new patients to whom they are assigned. The work-up on each patient is presented to an attending otorhinolaryngologist. The differential diagnosis, diagnostic procedures, and therapy are discussed. Each patient is seen on return visits by the same student in order that the results of the diagnostic procedure and clinical course may be observed firsthand and definitive therapy decided upon in consultation with an otorhinolaryngology staff member. Informal lectures are given at the beginning of the three-hour afternoon sessions. To supplement these informal lectures, interesting cases are selected and presented to the group for examination and informal discussion. Every attempt is made to use not only clinic patients but in-patients as well for these case presentations. In addition, two 1½ hour seminars are given each term to each group of twenty four students.

Elective Options

Fourth Year

Clinical clerkships in otorhinolaryngology are offered to students in the fourth year in modules of 7 weeks or 14 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 out-patient 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 operating procedures in the operating room. He also attends the weekly and monthly conferences.

Prerequisite: Courses in the second and third year. 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; P. J. Fitzgerald; J. G. Kidd; R. C. Mellors; G. E. Murphy

Clinical Professors

A. Kellner; E. E. Kramer

Visiting Professor

M. Helpner

Associate Professors

C. G. Becker; P. G. Bullough; M. R. Dische; G. F. Gray; S. I. Hajdu; A. G. Huvos; W. Insull; P. H. Lieberman; C. R. Minick; R. S. Porro; C. A. Santos-Buch; J. F. Seybolt; S. S. Sternberg

Clinical Associate Professors

S. Gross; A. M. Prince; C. Solomon

Assistant Professors

D. R. Alonso; E. P. Bassett; M. H. S. Clements; E. L. Coffey; R. A. Erlandson; J. A. Mouradian; M. Oka; C. K. Petito; P. P. Rosen; M. Susin; C. F. W. Wolf; C. W. Watson; J. F. Woodruff; J. M. Woodruff

Clinical Assistant Professors

A. S. Carlson; T. Robertson

Instructors

B. L. Bachli; N. L. Chernik; H. Kahn; C. K. Tang

Fellows

M. L. Alonso; G. Baldini; J. C. Bolles; H. Brusman; A. L. Cubilla; W. Goodhue; N. Hardin; B. C. Horten; D. L. Lewin; J. Prat; L. Riddick; H. Saito; L. R. Sharer; E. B. Sussman; A. Teixeira; M. Texeira; T. Yoshiki

Assistant

C. Street

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

is in the connecting wing between the College and the Hospital. Teaching is largely concentrated on the third floor where the autopsy room and demonstration room for pathological anatomy are located. Class rooms for microscopy are situated on the second floor. The third and fourth floors 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 museum contains a carefully selected collection of specimens representing most of the common and many of the more unusual pathological lesions. In addition to this mounted collection, a considerable amount of constantly changing gross material is available for study by the students.

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 performed 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

General and Systemic Pathology Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with cell injury, inflammation and repair; 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. Ellis and staff.

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 utilized 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, musculo-skeletal pathology, neuropathology, pediatric pathology, renal pathology, cardiac pathology, anatomic pathology, computer application in pathology and laboratory medicine. See Elective Catalogue for description of courses, prerequisites, times, and responsible faculty members.

Pediatrics

Professors

W. W. McCrory, Chairman; P. A. M. Auld; M. A. Engle; R. A. Good; M. L. Murphy; M. I. New; M. Silverberg

Clinical Professors

V. Apgar (Teratology); H. P. Goldberg; L. Salk

Associate Professors

V. C. Canale; K. H. Ehlers; R. G. Harper; M. C. Heagarty; M. W. Hilgartner; A. R. Levin; J. E. Lewy; F. Lifshitz; W. N. Lim; D. R. Miller; H. deC. Peterson; J. C. Ribble; A. L. Scherzer; C. T. C. Tan

Clinical Associate Professors

F. H. Allen, Jr.; R. R. Bass; C. H. Bauer; L. I. Ehrlich; B. L. Gemson; J. L. German, III; M. J. Glynn; R. M. Greenwald; M. T. Grossi; J. Q. Haralambie; F. N. Marshall; I. H. Mauss; R. G. McGovern; V. C. Mitty; B. L. New; R. F. Notterman; M. Orange; V. Pomeranz; S. F. Redo; D. L. Smith; P. S. Tolins

Adjunct Associate Professor

H. Koenig

Assistant Professors

B. S. Ashe; Z. E. Currenbhoy; F. G. deFuria; Z. F. Fischbarg; A. C. Gilladoga; M. Haghbin; L. Helson; A. N. Krauss; U. Lavy; L. S. Levine; R. I. Lopez; D. J. Louick; M. McVicar; B. Peterson; A. B. Rifkind; E. T. Schubert; M. Shibuya; M. M. Sokal; G. E. Solomon; N. W. Sternberg; T. A. Vandersall; P. H. Winchester

Clinical Assistant Professors

O. E. Brillo; M. Boris; R. M. Brilliant; M. C. Buchanan; W. T. Carpenter; B. S. Caterinichio; L. I. Charash; J. N. DeHoff; A. P. DeMayo;

D. L. Dowell; D. B. Gareen; M. Gilbert; M. Harwin; A. C. Hoffman; P. R. Joseph; M. N. Kugler; M. Levy; L. B. Lowe, Jr.; A. J. Mistretta; K. Neumann; A. P. Nicosia; B. Nitzberg; S. D. Olicker; O. E. Pitkin; I. Rappaport; R. H. Reiman; M. S. Rosh; A. J. Salisbury; W. T. Seed; J. Shein; M. Small; J. Soloway; M. Teitel; J. P. Viscardi; E. M. Wallace; B. X. Weinstein; H. I. Wolfe; S. S. Zipser

Instructors

F. Ghavimi; A. C. Giardina; B. A. Grellong; G. Morillo-Cucci; M. E. Olson; G. A. Parks; G. Rosen; E. B. Visconti

Clinical Instructors

H. E. Bradley; P. Datlof; G. T. Edis; R. M. Elisofon; W. L. Greenberg; A. C. Holtzman; G. Izzo; R. L. Kandell; Y. Khakoo; A. Laciou-Petrucelli; R. H. Lieberman; F. N. Medici; M. S. Saluja; J. J. Saranga; M. A. Shinefield; B. S. Slater; J. Steckelman; R. Stein; M. W. Tsai; R. W. Walker; S. H. Young

Research Associates

B. Granich; P. Klass

Fellows

C. Ahmandi; A. Aviv; S. P. Bennett; M. Bestak; F. G. Boineau; B. I. Caparros; M. Chandra; G. F. Cohen; S. B. Cruz; H. L. deGivie; B. N. Dias; Y. Doberne; R. Exeni; S. C. G. Fang; N. S. Farkouh; P. Fort; W. W. Frayer; R. J. Garutti; S. I. Hepner; I. M. Hiatt; H. Isenberg; R. E. Kavey; E. T. Khuri; A. A. Klein; C. S. Kleinman; S. Korth-Schutz; M. K. Kukulich; A. J. L. Markenson; G. Mathew; E. M. McCarthy; T. M. Menden; D. J. Moel; C. L. Morrison; J. E. O'Loughlin; S. P. Rand; A. S. Raptoulis; S. E. Read; F. J. deRosas; P. Saenger; A. S. Sanmaneechai; E. S. Santos; E. A. Schmalzer; J. D. Schulman; C. Sekaron; D. R. Skog; D. Sogn; L. J. Steinherz; P. G. Steinherz; S. J. Stravinski; D. J. Wang; S.-C. Wang; M. P. Weinstein; E. B. Visconti; J. C. J. Wu

Lecturer

R. W. Gause

Required Clerkship

Third Year

The major undergraduate teaching effort of the Department of Pediatrics occurs in the third year. In a period of 7½ weeks, a required program is offered to provide a core of Pediatric knowledge. During this time, the student is exposed to the important areas of general Pediatrics so that an overview of the subject

is presented. The year is divided into 6 modules. During the module, the student is assigned to a Pavilion Service for 3½ weeks, the Newborn and Neonatal Intensive Care Service for approximately 2 weeks, and the outpatient services at either Metropolitan Hospital or Bronx-Lebanon Hospital. Throughout the rotation, students spend ½ day a week in the Pediatric Outpatient Department and several hours a week 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. The experience at Metropolitan and Bronx-Lebanon Hospitals exposes the student to the problem of providing services to economically deprived groups. 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. The student is expected to follow his patient closely during the admission and to write pertinent progress notes. A number of formal teaching seminars are scheduled. These provide the core lecture material for Pediatrics, 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 four. Tutors are members of the full-time staff or the attending staff. Tutors meet with the students three times a week to present and discuss cases. It is the tutor's responsibility to give continuity to the pediatric curriculum.

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, and Memorial 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; A. Askari; A. Kappas (Clinical Pharmacology); W. Modell

Clinical Professor

A. Shapiro (Clinical Pharmacology)

Adjunct Professors

J. J. Burns; E. J. Cafruny

Associate Professors

W. W. Y. Chan; R. W. Houde (Clinical Pharmacology); H. Kutt (Clinical Pharmacology); R. Levi; M. Okamoto; A. Van Poznak (Clinical Pharmacology)

Adjunct Associate Professor

E. Grunberg

Assistant Professors

A. Alvares; C. Inturrisi; A. Rifkind (Clinical Pharmacology)

Adjunct Assistant Professor

B. A. Berkowitz

Instructor

A. Drakontides

Research Associates

T. Baker; N. Chatterjee; W. H. Huang; S. Rao

Research Fellow

K. Verebely

Lecturer

H. S. Carlin (Clinical Pharmacology)

Required Course

Second Year

Basic Course. Lectures, demonstrations, and conferences are given during the first and second terms of the second year; clinical

demonstrations involving both in- and out-patients are scheduled in the second term. These exercises constitute the basic course in pharmacology. The major purpose is to teach the concept and the principles of pharmacology. Detailed consideration is given to the parameters of drug action to provide the student with the fundamental concepts essential for the evaluation of any drug and its rational use in therapeutics. Emphasis is placed on the scientific basis of pharmacology. Prototype drugs, considered systematically, serve to illustrate various mechanisms and parameters of drug action. 154 hours.

Elective Options

Second Year

Elective opportunities will be made available to students during free time. In these courses the student may have the opportunity either to ascertain the pharmacological profile of newer drugs through application of principles introduced during the basic course or to clarify through research some particular aspect of drug action. These activities will be supervised closely by staff members and oriented as a graduate experience endeavoring to foster scholarly studies and scientific inquiries. The basic course in pharmacology is a preferred prerequisite.

Fourth Year

Clinical Pharmacology Seminars. A series of one-hour seminars are offered twice weekly in Pharmacologic Bases of Therapy. In these seminars, drug treatment used in a specific case furnishes the focus for the development of a pharmacologic discussion. Emphasis is on a reexamination of the pharmacologic rationale for a particular therapy. Also, students are directed in searching out essential information on newly introduced medicinals. Members of clinical departments are invited to participate. This course is offered during each module but will be given only if there are at least six students registered.

Clinical Pharmacology. Electives in clinical pharmacology offer the student an opportunity to become acquainted with problems of experimental design and conduct of controlled clinical drug trials. Present departmental programs in the clinic are concerned with (a) the assay and evaluation of analgesic drugs; (b) drug dependencies; (c) neonatal pharmacology; (d) drug metabolism; (e) antiepileptic drugs; (f) anesthetic drugs; and (g) behavioral responses to drugs. Time to be arranged.

Research. Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the

methods of pharmacological research. Special opportunities are offered for work on the pharmacology of synaptic transmission, the cardiovascular system and the biochemical aspects of pharmacology. Detailed descriptions of opportunities can be found in the Catalog of Electives. Recommended time: to be arranged.

Physiology and Biophysics

Professors

E. E. Windhager, Chairman; R. L. Greif; R. F. Pitts, Maxwell M. Upson Professor of Physiology and Biophysics

Associate Professors

S. Balagura-Baruch; C. Fell; B. Grafstein; T. M. Maack

Assistant Professors

O. S. Anderson; D. Gardner; C. Liebow

Instructor

L. de Bermudez

Research Associates

S. Specht; L. deBermudez

Research Fellows

C. M. Kim; I. McQuarrie

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. Lectures are supplemented by references to current literature. The department is fortunate in having on the fourth floor of its building the Graham Lusk Library of Physiology, a gift from the late professor of physiology, Graham Lusk. The Library includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the college library, the facilities of this library are at the disposal of the students of medicine.

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 respective 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 largely devoted 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

W. T. Lhamon, Chairman; S. Goldstone (Psychology); L. E. Hinkle, Jr. (Medicine); R. N. Kohl; E. H. Lenneberg (Psychology); D. J. Reis (Neurology); G. P. Smith (Behavioral Science)

Clinical Professors

E. T. Carlson; J. F. Masterson; W. N. Schoenfeld (Psychology); A. K. Shapiro; R. M. Silberstein; O. A. Will, Jr.

Adjunct Professor

B. J. Betz

Associate Professors

M. D. Clayson (Psychology); J. L. Curtis;
S. T. Michael; J. A. Sechzer (Psychology);
P. E. Stokes

Clinical Associate Professors

H. H. Barten; J. B. Chassan (Statistics); H. E. Daniells; H. Fensterheim (Psychology); B. Fisher (Psychology); F. F. Flach; L. J. Hatterer; H. S. Kaplan; A. Kiev; L. G. Laufer; A. S. Lenzner; A. B. Lewis, Jr.; E. Y. Liang; L. Loeb; A. A. McLean; E. E. Mintz (Psychology); B. L. New; S. Nordlicht; E. L. Pinney, Jr.; W. B. Pomeroy (Psychology); J. M. Quen; R. A. Ravich; L. R. Straub; J. S. Tamerin; N. Warner

Assistant Professors

J. F. Clarkin (Psychology); M. F. Folstein; J. C. Gibbs, Jr.; F. J. Hamilton, Jr.; J. M. Kisch (Psychology); A. Loranger (Psychology); M. R. Mattson; W. K. McKnight; J. F. O'Neil; S. Reich (Psychology); E. E. Seelye; H. N. Siegrist (Social Work); L. M. Tourk (Psychology); P. H. Warren; P. G. Wilson; L. C. Zang

Clinical Assistant Professors

E. T. Adelson; A. A. Anderson, Jr.; G. A. Anderson; J. Arcuri; J. Aronson; J. M. Astrachan; R. Baker; J. E. Baxter; T. Beckett (Psychology); P. M. Bromberg (Psychology); J. W. Brown; A. N. Browne-Mayers; E. H. Church; H. N. Cooper; T. J. Craig; E. G. Dabbs; L. A. Downs; A. Dupuis; G. Faretra; R. F. Fath (Medicine); R. G. Ferguson; T. H. Finkle; M. F. Fleetwood; E. D. Freeman; M. Fredland; J. G. Gibbs, Jr.; R. S. Green; S. Gruber; M. B. Hagamen; T. S. Harper; I. B. Harrison; R. J. Haskell, Jr.; T. F. Henley; P. S. Herbert; D. N. Hertz; R. Hirsch; P. T. Janulis; B. Johnson; D. A. Kahn; F. D. Kane; S. E. Kapel; M. G. Karmason; M. D. Kerr; H. E. Kim; M. I. Klein; M. M. Knight; R. G. Knight; J. L. Kroll; A. B. Landolt; S. E. Langer; R. E. Lee (Medicine); H. J. Lefkowitz; E. A. Lerner (Psychology); D. Lieberman; S. A. Locke (Psychology); W. A. Longaker; J. N. Loomis; W. V. Lulow; A. S. Maerov; R. B. Makover; R. C. Mastrovito; J. R. McCartney; L. E. McGowan; J. F. McGrath; L. C. Miller; H. H. Moorhead; W. A. Myers; J. Nahmias; W. Nathan; R. Nickerson; E. S. Petursson; E. R. Ranzenhofer; K. C. Rawitt; E. Riss (Psychology); P. S. Robbins; G. Samios; M. L. Schoelly; J. E. Schultz; V. Sears; M. A. Selzer; C. A. Shamoian; E. Shapiro (Psychology); L. R. Sillman; R. M. Simon; E. R. Singer; N. Smith; J. H. Spencer, Jr.; T. G. Stauffer;

M. L. Stein; J. D. Sullivan; T. Vandersall; J. R. Ware; H. L. Wayne; W. D. Wheat; A. D. Weiner; B. C. Wilson; M. C. Winestine (Psychology); A. R. Yapalater

Visiting Assistant Professor

S. L. Dunaif

Instructors

J. A. Campanella; R. Gross; P. Kosseff; B. J. Lasley; A. Tashchian; H. A. Von Greiff; J. A. Zito

Clinical Instructors

A. Becker; D. M. Bedenko; N. F. Berk; M. B. Blitz; R. Brady; R. D. Braun; R. S. Carson; J. J. Cavanagh; C. J. Clark; R. Cohen; P. H. Davis; L. B. de Alvarado; H. S. Decker; R. Deutsch; M. V. Di Gangi; T. L. Doyle, Jr.; S. C. Draghi; J. Dubey; S. R. Edelson; E. Einbinder; A. Eisen; S. J. Epstein; R. J. Foraste; M. P. Frogel; D. J. Gallina; R. I. Ganeles; H. Goldey; S. Golub; R. F. Jarris; A. I. Kaplan; S. S. Kove; S. Kramer; M. Levine; G. Levitt; H. Mandel; J. G. Mendel; S. M. Mitchell; D. B. Nagel; E. Neressian; H. G. Nurnberg; D. J. O'Connell; A. K. Offit; S. J. Pagliaro; L. E. Roberts; M. G. Rothenberg; H. L. Rothman; A. Rudominer; D. B. Saxe; M. Schwab; C. Siguenza; D. Simons; Z. Skolnik; M. Spital; R. Symons; L. Tallal; S. G. Traube; K. F. Tucker; T. Van Allen; W. M. Weisner; E. Wilson, Jr.; A. Zagoloff

Research Associates

N. Dain; T. A. Loftus; B. R. Seegmiller

Fellows

J. E. Acuna; O. J. Arcuni; R. D. Ariola; L. Balenovic-Drezga; G. Benlifer; B. Bienenstock; E. Black; J. D. Burgess; P. Burns; C. Casey; M. L. Chiorazzi; P. M. Crain; P. W. De Bell; B. Dumouchel; S. E. Folstein; F. M. Khan; R. Khawly; R. Klein; J. H. Kocsis; R. N. Landeen; P. A. Levi; E. Macrae; T. L. Maddox, Jr.; R. L. Maiberg; L. Meltzer; A. Nucci; J. P. Packles; E. J. Pilek; M. Pressman; W. T. Richardson; W. Samuels; R. Sasmor; J. Savykstein; R. M. Schoen; B. M. Schulman; J. J. Silverstein; C. R. Sonder; J. G. Toboada; M. Teitelbaum; J. Wallace; S. Wells; W. Welton; F. M. Young; A. Zomorodi; W. M. Zomorodi

Research Fellow

M. D. Hassol

Assistants

E. K. Balliett; E. Heffner

Required Courses

Second Year

Psychopathology. Consists of lectures on the major psychiatric disorders. These are discussed in terms of diagnosis, clinical features, concepts of etiology, treatment, and outcome. In addition, small groups of students interview patients at the Payne Whitney Psychiatric Clinic under the supervision of the staff. The course offers clinical experience in methods of interviewing, history taking, and relating to patients. Total hours: 20.

Third Year

Clinical Psychiatry. Groups of four to six students rotate through the in- and outpatient services of the Payne Whitney Psychiatric Clinic or the Westchester Division four days a week for four week periods. Students examine and work with patients, and attend conferences and demonstrations. The work includes study of adults and children with a variety of psychiatric problems.

Elective Options

First Year

Electives. Electives are offered in "Group Development" and in "Human Sexuality", which provide the student with the opportunity of beginning to explore the complexities of his role as a physician. In addition, various other electives are offered in the different sections of the Department of Psychiatry, including the history section, social psychiatry, special studies lab, sexual study, and treatment program, etc. Listing is available in the Catalog of Electives.

Fourth Year

Electives. During the fourth year the following electives are offered: A clinical clerkship in the psychiatric inpatient department, clinical experience in the psychiatry outpatient department, social psychiatry, metabolic psychiatry, the history of psychiatry, psychochemotherapy, audio-visual teaching, community psychiatry, child 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.; M. E. W. Goss; D. Schottenfeld

Clinical Professors

E. J. Cassell; R. L. Engle, Jr.; B. H. Kean

Adjunct Professor

W. R. Lynn (Health Systems Analysis)

Visiting Professors

W. T. Ingram (Engineering); P. D. Marsden; P. B. Peacock

Clinical Associate Professors

C. A. Berntsen, Jr.; L. L. Heimoff; S. A. Howe; F. T. Kirkham, Jr.; E. G. McCarthy, Jr.

Adjunct Associate Professor

M. D. Hyman (Sociology)

Assistant Professors

M. H. Alderman; L. M. Drusin; T. C. Jones; V. Mike (Biostatistics); R. B. Millman; D. Schwartz (Nursing); A. Ullmann (Social Work); G. I. Wadler

Clinical Assistant Professors

G. Bondi; A. B. Chaves; P. C. White

Instructor

E. T. Khuri

Clinical Instructors

G. Hobby; J. Levinson; W. H. Loery

Research Associates

D. Gordon; S. K. Henshaw

Research Fellow

O. S. Ochs

Research Assistants

M. McCarthy; M. H. Mushinski

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. The "patient" is society rather than the individual person. 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 man has faced. To a considerable extent teaching thus

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 a 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 a part of the first-year course in Introductory Medicine and consists of one hour each Tuesday during the third trimester. It provides an analysis of existing systems of health care in the United States and abroad through the study of (1) the organization of medical practice; (2) the role of the hospital in patient care and its relationship to the community; (3) the role of neighborhood health centers; (4) the economics of health care, and (5) the proposals for modification of current systems. Reader and Dr. Goss.

Second Year

Introduction to Epidemiology. During the second trimester, students learn about the epidemiologic method which 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. 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. Mike.

Parasitology. The principal emphasis in this course is on disease caused by the larger parasites which 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 it 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 and 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. The exercises are devoted to consideration of general questions of clear medical import which may be expected to represent major problems related to urban communities, to the student's future patients considered as individuals, and to himself. The teaching is conducted with groups of fifteen students who meet weekly for a total of eight weeks. Coordinator, Dr. Alderman.

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 some of the problems it faces. Topics considered include the characteristics of health and medical services which 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, the manpower crises, rising costs, and forms of payment to hospitals and physicians including Medicare and prepaid insurance. The course includes reading assignments. Second year, hours to be arranged. Dr. McCarthy.

Introduction to Statistical Inference. 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 and experimental data, and to acquaint them with the major techniques of statistical analysis. Illustrations of the material are selected from applications in the biomedical sciences. A weekly set of homework problems is assigned and access to computer terminals with instruction in their use, is provided to aid computation. There are no mathematical prerequisites beyond elementary algebra. Open to graduate students, medical students, and staff. (Any first-year medical student completing this course will be exempted from Introduction to Biostatistics.) Thursday, 3–5 p.m., second trimester. Dr. Mike.

Jamaica Rural Health Project. This program involves participation in a community health project in the small community of Elderslie, St. Elizabeth Parish, Jamaica, W. I. The project grew out of a consortium formed by the Jamaican Ministry of Health, The University of the West Indies, and Cornell University Medical College to improve the medical care of the rural poor while developing, in the process, a simple and replicable delivery system. The students serve as primary physicians in the Elderslie clinic, under the general supervision of the local Health Officer and the faculty field director. 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, OB/GYN, and Pediatrics and Surgery. Four students can be accommodated full time for one or two modules. Dr. Alderman.

Evaluation of Quality of 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, e.g., physician characteristics, type of practice, hospital and clinic settings. Problems involved in monitoring medical-care quality in different contexts such as neighborhood health centers are also considered, and specific methods in use are illustrated. Readings are assigned and original studies may be undertaken. First

trimester, second year. One 1-hour seminar weekly, by arrangement. Four to ten students. Dr. Goss.

Problems of Health Care Delivery in New York City. In this seminar various of the problems that interfere with delivery of health services 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 1-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 1-hour seminar a week and another hour a week for laboratory experience including work with a decision-aids system under development. Open to students in any of the four years. There are no medical course prerequisites. A maximum of six students can be accommodated. Readings will be assigned. Dr. Engle.

Public Health in a Suburban Area (Nassau County Department of Health). Students will be afforded an opportunity to participate in studies or other projects for purposes of research or program evaluation and development in the areas of environmental management, personal health, epidemiology, and public health laboratory services. Strong consideration will be given to projects initiated by the student and assistance will be offered within the capability of the department in the development and execution of such projects. Offered all year. There are no prerequisites. One full-time student per module can be accommodated for one or two modules. Coordinator, Dr. Wadler.

Radiology

Professors

J. A. Evans, Chairman; D. V. Becker; G. D'Angio; R. H. Freiburger; M. A. Meyers; D. G. Potts; J. P. Whalen

Clinical Professor

H. L. Temple

Associate Professors

H. A. Baltaxe; R. Benua; F. C. Hwa-Chu;
M. D. F. Deck; J. Hurlley; M. A. Meyers;
Z. Mujahed; E. Nunez; N. Poker; H. L. Stein;
R. C. Watson

Clinical Associate Professors

B. S. Hilaris; G. Stassa; J. Zizmor

Adjunct Associate Professor

P. Cahill

Assistant Professors

L. Anderson; L. M. Blau; E. Deschner; B.
Ghelman; D. G. Gomez; J. G. Holt; S. Hopfan;
J. G. Jacobstein; R. B. Jimenez; J. J. Kaye;
C. D. Kelley; J. H. Kim; R. L. A. Kirch;
A. Liebeskind; M. Loring; J. J. McSweeney;
C. Merten; J. B. Naidich; L. Nisce; R. C.
Packert; G. C. Ramsay; L. N. Rothenberg;
J. Rothman; S. Seal; J. Smith; H. Teixidor

Clinical Assistant Professors

F. M. Cummins; A. F. Govoni; P. Rossi; H. M.
Selby; R. E. Snyder

Instructors

M. A. El Batata; R. Bugbee; J. Cavallari;
H. M. Goldberg; R. A. Hyman; E. Kazam;
R. Mohan; M. Powell; G. D. Ragazzoni; R.
Schneider; L. D. Simpson; J. St. Germain;
F. Volberg; A. Wecksell

Clinical Instructors

M. Barondes; A. Fuller; A. Haraway; J. C.
Hirschy; R. H. Leaming

Fellows

W. Caragol; A. Chambers; P. Cipriano; M.
Greenaway; C. B. Grossman; W. Hindle;
J. M. Kaplan; B. T. Katzen; A. Messina;
N. O'Donohue; T. Sos

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 disease 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 provide him 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 roentgenology. 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 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. He will participate in the daily report session in which scans and procedures are reviewed. In addition, if the student wishes, he may originate research activities of his own 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. In addition, 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 5 modules and is limited to two students.

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 Psychiatric 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 area of diagnostic radiology, radiation therapy, and nuclear medicine. The staff and facilities of the Department of Medical Physics are available to interested students.

Surgery

Professors

P. A. Ebert, Chairman and Johnson and Johnson Distinguished Professor of Surgery; P. Dineen; E. I. Goldsmith; C. W. Lillehei, Lewis Atterbury Stimson Professor of Surgery; V. F. Marshall, James J. Colt Professor of Urology in Surgery; E. C. Muecke (Urology); R. H. Patterson, Jr. (Neurosurgery); B. S. Ray (Neurosurgery); S. F. Redo; A. L. Rubin (Biochemistry); B. Thorbjarnarson; J. C. Whitsett, II; P. D. Wilson, Jr. (Orthopedics).

Clinical Professors

W. A. Barnes; C. W. Holman; A. E. Inglis (Orthopedics); R. W. Lavengood, Jr. (Urology); J. H. McGovern (Urology); L. R. Straub (Orthopedics).

Associate Professors

J. H. Bloch; H. Gans; H. Gilder (Biochemistry); D. Goulian, Jr. (Plastic Surgery); W. R. Grafe, Jr.; P. M. Guida; L. Korngold (Microbiology, Orthopedics); C. K. McSherry; A. J. Okinaka; P. A. Skudder; K. H. Stenzel (Biochemistry).

Clinical Associate Professors

W. D. Arnold (Orthopedics); S. J. Behrman (Dentistry); R. D. Campbell, Jr. (Orthopedics); S. Cohen; J. H. Doherty (Orthopedics); H. S. Dunbar (Neurosurgery); G. R. Holswade; B. Jacobs (Orthopedics); J. G. Keuhnelian (Urology); B. Landis (Psychology); D. B. Levine (Orthopedics); H. Mannix, Jr.; R. C. Marcove (Orthopedics); J. A. Nicholas (Orthopedics); W. F. Nickel, Jr.; J. W. Smith (Plastic Surgery); G. E. Wantz.

Assistant Professors

J. M. Aronian; M. S. Bains; J. E. Baxter (Psychiatry); J. S. Cheigh (Biochemistry); A. F. Cortese; S. L. Frantz; W. A. Gay, Jr.; R. H. Guthrie, Jr. (Plastic Surgery); D. W. Kinne; L. J. Kutner (Microbiology, Orthopedics); J. W. Mellors (Biochemistry, Orthopedics); K. P. Morrissey; R. R. Riggio (Biochemistry); M. S. Shiu; R. H. Spiro; W. T. Stubenbord; J. F. Sullivan (Biochemistry); P. S. Walker (Bioengineering, Orthopedics).

Clinical Assistant Professors

W. H. Bohne (Orthopedics); P. W. Braunstein; M. Brice, II (Urology); G. N. Cornell; S. N. Eichenholtz (Orthopedics); R. A. Goldstone (Orthopedics); A. Hersh (Orthopedics); J. N. Insall (Orthopedics); J. T. Kauer; E. B. C. Keefer; P. J. Marchisello (Orthopedics); J. L. Marshall (Orthopedics); V. Mayer (Orthopedics); A. S. Mishrick; P. O. Niceta; C. S. Ranawat (Orthopedics); L. Root (Orthopedics); E. A. Salvati (Orthopedics); F. J. Vagnini; K. P. Veliskakis (Orthopedics).

Visiting Assistant Professor

H. Nakamura

Instructors

F. R. Barta, Jr.; L. J. Benton, Jr.; C. J. Bleifeld; H. C. Bredin; T. Chaglassian; J. S. Cheigh; J. R. Cole; E. B. Crosby; W. T. Curry; W. H. Davidson; K. Desai; S. J. Dos; R. J. Ellis; D. N. Ervin; I. B. Fries; N. G. Herr; A. F. A.

Jawde; R. M. Kass; H. E. Kramer; A. J. Lande; J. P. Lyden; J. R. Macys; J. C. McCabe; R. W. Milgrim; H. V. Moore; W. P. O'Grady; J. C. Orlando; R. Pritchard; R. Sampson; T. P. Sculco; M. M. Sherman; J. J. Struthers; L. F. Warren; R. F. Warren; D. W. Wise; H. C. Yu.

Clinical Instructors

J. B. Adler; S. Avnet; H. D. Balensweig; M. Browne; W. J. Bruton; T. I. Carey; S. E. Carney; R. L. Clarke; J. W. Coleman; T. M. Darrigan; D. S. David; J. B. Ogilvie; E. A. O'Neill; I. B. Prince; T. D. Rizzo; D. S. Speer; N. D. Krishne Urs; W. J. Walsh, Jr.

Fellows

W. S. Adam; S. Ali; S. E. Asnis; W. A. Brock; P. D. Coleman, Jr.; R. L. Cucin; D. N. Danforth, Jr.; J. E. Deitrick, Jr.; S. A. Dressner; J. V. Ehrens; J. H. Ellison; J. M. Fabrega; K. A. Falvo; R. M. Farrell; J. Fleigle; E. Y. Fondo; P. J. Grillo; L. J. Guido; R. K. Harris; S. D. Herman; G. I. Imber; E. C. Jones; H. A. Konigsberg; L. R. LeWinn; M. M. Lewis; P. J. Linden; S. A. Liroff; F. P. Loy; M. I. Malberg; J. P. McCarron, Jr.; D. B. Melvin; P. F. O'Leary; M. W. Panio; W. R. Pitts, Jr.; L. J. Robertson; R. G. Schwager; J. A. Schweikert; J. J. Shine; B. H. Smith; P. B. Stovell; L. Tapia; V. J. Tumminello; G. M. Uhran; J. D. Watts; W. R. White; J. M. Wilson, III; G. Yerevanian; O. V. Zaklinsky.

Memorial Hospital

Professors

E. J. Beattie, Jr.; J. G. Fortner; W. F. Whitmore, Jr. (Urology).

Clinical Professors

T. R. Miller

Associate Professors

W. G. Cahan; P. R. Exelby; H. W. Farr; J. H. Galicich, Jr.; H. Grabstald (Urology); M. W. Stearns; E. W. Strong.

Clinical Associate Professors

R. J. Booher; E. E. Clifton; M. R. Deddish; J. H. Farrow; G. F. Robbins; R. K. Snyderman (Plastic Surgery); J. A. Urban.

Assistant Professors

H. Ashikari; D. G. C. Clark; W. H. Knapper; N. Martini T. E. Starzynski; A. D. Turnbull

Clinical Assistant Professors

L. Bowden; D. Catlin; A. A. Fracchia; J. T. Goodner; J. S. Lewis; C. J. McPeak;

S. H. Q. Quan; C. E. Rogers; H. R. Tollefsen; H. W. Whiteley, Jr.

Instructors

K. U. Choudhry; D. W. Kinne

Clinical Instructors

M. Arlen; A. J. DePalo; F. P. Gerold; R. E. L. Hertz; A. R. MacKenzie; O. S. Moore; M. A. Paglia; E. P. Pickett; C. J. Schmidlapp.

Fellows

A. E. Alfonso; R. J. Burnard; Y. C. Chien; J. P. Gaston; A. Ghanchi; J. B. Kaiser; S. M. Lee; M. E. Lodish; J. H. Lundy; B. T. McCaffrey; B. K. Rao; M. K. Sehdev; R. C. Sharma; O. Soliman; C. R. Walker; H. J. Wanebo; D. P. Wolk.

North Shore Hospital

Associate Professor

A. R. Beil, Jr.

Clinical Associate Professors

B. E. Bromberg (Plastic Surgery); R. Carras (Neurosurgery); J. A. Epstein (Neurosurgery); B. R. Heinzen; L. J. Lester; J. D. Mountain; R. M. Stark (Orthopedics)

Assistant Professors

M. J. Kaplitt; B. G. Miscall.

Clinical Assistant Professors

S. C. E. Clayton; R. W. Duffy; C. R. Dunbar (Orthopedics); C. B. Ripstein; S. H. Rothfeld (Urology); K. M. Schneider; N. Spier; R. S. Waldbaum (Urology)

Instructors

I. Erdamar; S. M. Kopp.

Clinical Instructors

C. M. Beiles; F. T. Bergan; S. C. E. Clayton; E. V. D. Corylles; R. E. Decker; S. L. Deckoff; M. E. Freund; A. F. Glendinning; J. W. Guido; W. F. Hermann; B. Hoexter; K. Kenigsberg; R. M. Linsky; D. M. Mazor; A. S. Mishrick; H. Pearl; A. D. Rosenthal; K. M. Schneider; D. C. Silverstein; I. A. S. Spira; M. K. Sutaria; A. P. Sutton; R. S. Waldbaum.

Fellows

R. P. Banka; D. L. Bordan; A. F. Carolla; G. E. Delgado; A. H. Gold; A. L. Graff; D. P. Harley; R. A. Henseler; D. A. Horvat; V. J.

Jaeger; D. W. Klotch; S. J. Laufer; R. H. Ocean; J. M. Sherwood; E. C. Tan; A. J. Tortolani; R. M. Whalen.

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 is provided, also, 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 spends approximately eleven weeks on the general surgery pavilions with rotations through the divisions of thoracic surgery, urology, orthopedics, and Memorial Hospital for Cancer and Allied Diseases. 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. He also evaluates laboratory determinations on patients assigned to him and has an opportunity to participate in the pre-operative preparation. When the patient is operated on, the student may act as part of the operating team. He has an opportunity to see at first hand the pathological conditions for which the operation was undertaken. He 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 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 a lecture on an assigned surgical subject. Attending surgeons act as moderators supplementing and guiding the discussion that results from the students' presentation. 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 and Ear 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 rotary 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 1973-74

First Year**First Trimester, Weeks 1-5**

<i>Hour</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
9-10	Gross Anatomy	Biochemistry	Biochemistry	Biochemistry	Microscopic Anatomy
10-11		Microscopic Anatomy	Gross Anatomy	Gross Anatomy	Gross Anatomy
11-12					
12-1					
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Biochemistry	Elective/Free	Introductory Medicine	Elective/Free	Biochemistry
3-4	Interdisciplinary				
4-5			Elective/Free		

First Trimester, Weeks 6-11

<i>Hour</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
9-10	Gross Anatomy	Biochemistry	Biochemistry	Biochemistry	Gross Anatomy
10-11		Microscopic Anatomy	Microscopic Anatomy	Microscopic Anatomy	
11-12					
12-1					
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Biochemistry	Elective/Free	Introductory Medicine	Elective/Free	Biochemistry
3-4	Interdisciplinary				
4-5			Elective/Free		Elective/Free

First Year**Second Trimester**

<i>Hour</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
9-10	Biochemistry	Physiology	Biochemistry	Biochemistry	Physiology
10-11	Gross Anatomy	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	
11-12					Microscopic Anatomy
12-1				Biochemistry	Elective/Free
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Physiology	Elective/Free	Introductory Medicine	Elective/Free	Biochemistry
3-4	Interdisciplinary				
4-5			Elective/Free		

Third Trimester

<i>Hour</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
9-10	Physiology	Neuroscience	Physiology	Elective/Free	Neuroscience
10-11	Neuroscience				Physiology
11-12					
12-1		Lunch		Lunch	
1-2	Lunch	Introductory Medicine	Lunch	Elective/Free	Lunch
2-3	Neuroscience	Elective/Free	Physiology		Introductory Medicine
3-4	Interdisciplinary				
4-5					

Second Year**First Trimester—11 Weeks**

<i>Hour</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
9–10	Pathology	Pharmacology	Pathology	Pharmacology	Pathology
10–11		Pathology			
11–12					
12–1		Clinical Pathological Conference			
1–2	Lunch	Lunch	Lunch	Lunch	Lunch
2–3	Microbiology	Elective/Free	Microbiology	Elective/Free	Microbiology
3–5	Elective/Free				

Second Trimester—11 Weeks

<i>Hour</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
9–10	Pharmacology	Pharmacology	Pathology	Public Health	Pathology
10–11	Pathology	Pharmacology		Pharmacology	
11–12					
12–1		Clinical Pathological Conference			
1–2	Lunch	Lunch	Lunch	Lunch	Lunch
2–3	Microbiology* Parasitology Public Health	Public Health	Microbiology Parasitology Public Health	Elective/Free	Microbiology Parasitology Public Health
3–5		Elective/Free			

* Microbiology, weeks 1 through 5; Parasitology, weeks 5 through 9; Elective/Free, weeks 10 through 11

Third Trimester—11 Weeks

<i>Hour</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
9–10	Medicine	Psychiatry	Medicine	Elective/Free	Medicine
10–11					
11–12					
12–1		Clinical Pathological Conference			
1–2	Lunch	Lunch	Lunch	Lunch	Lunch
2–3	Medicine	Elective/Free	Medicine	Elective/Free	Medicine
3–5	Elective/Free				

Third Year**Section I**

<i>First Half of Year September 4– February 24</i>	<i>12 weeks</i>	<i>11 weeks</i>	<i>Christmas Vacation</i>	<i>7 weeks</i>	<i>Spring Vacation</i>
Division A	Medicine	Surgery		Obstetrics	
Division B	Surgery	Medicine		Pediatrics Neurology Psychiatry Public Health	

<i>Second Half of Year February 25– August 3</i>	<i>7 weeks</i>	<i>8 weeks</i>			
Division C	Neurology Psychiatry Public Health	Pediatrics			
Division D	Obstetrics	Neurology Psychiatry Public Health			
Division E	Pediatrics	Obstetrics			

Section II

<i>First Half of Year</i>	<i>8 weeks</i>	<i>7 weeks</i>	<i>Christmas Vacation</i>	<i>8 weeks</i>	<i>11 weeks</i>	<i>Spring Vacation</i>
Division C	Obstetrics	Neurology Psychiatry Public Health		Pediatrics	Medicine	
Division D	Pediatrics	Obstetrics		Neurology Psychiatry Public Health		
Division E	Neurology Psychiatry Public Health	Pediatrics		Obstetrics	Surgery	

<i>Second Half of Year</i>	<i>11 weeks</i>
Division A	Surgery
Division B	Medicine

Fourth Year**Elective Modules**

A	September 4–October 27	(8 weeks)	C	January 3–February 16	(7 weeks)
B	October 29–December 15	(7 weeks)	D	February 18–April 6	(7 weeks)
			E	April 8–May 23	(7 weeks)



Cornell University

Register

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Neal R. Stamp, Secretary of the Corporation and
University Counsel

The New York Hospital- Cornell Medical Center

The Center was formed by an agreement
between The Society of The New York Hospital
and Cornell University in order to associate
organically the hospital and the medical college
and to effect a complete coordination of the
medical, educational, and scientific activities of
the two institutions. The Center now includes
not only Cornell University Medical College and
the New York Hospital, but also the Graduate
School of Medical Sciences of Cornell
University and the Cornell University-New
York Hospital School of Nursing.
E. Hugh Luckey, President.

Joint Administrative Board

The Center is operated under the supervision
of a Joint Administrative Board composed of

four governors of The Society of The New York
Hospital, four representatives of the Board of
Trustees of Cornell University, and one other
member elected by the appointed members. The
President of The New York Hospital-
Cornell Medical Center is the chief executive
officer of the Board.

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Cornell Medical College

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Faculty of the Medical College*

Emeritus Professors

- Arthur F. Anderson, Emeritus Clinical Professor of Pediatrics. M.D. 1916, Tufts University. (1940;1962)
- David P. Barr, Emeritus Professor of Medicine. A.B. 1911; M.D. 1914, Cornell University. (1919;1957)
- Leona Baumgartner, Emeritus Clinical Professor of Pediatrics; Emeritus Clinical Professor of Public Health. A.B. 1923; M.A. 1925, University of Kansas; Ph.D. 1932; M.D. 1934, Yale University. (1940;1968)
- McKeen Cattell, Emeritus Professor of Pharmacology. B.S. 1914, Columbia University; A.M. 1917; Ph.D. 1920; M.D. 1924, Harvard University. (1940;1959)
- Anthony C. Cipollaro, Emeritus Clinical Professor of Medicine. B.S. 1924, Dartmouth College; M.D. 1927, Columbia University. (1948;1966)
- Lloyd F. Craver, Emeritus Professor of Medicine. A.B. 1915; M.D. 1918, Cornell University. (1940;1959)
- Margaret Dann, Emeritus Professor of Pediatrics. A.B. 1923, Oberlin College; M.S. 1925, University of Illinois; Ph.D. 1932, Cornell University; M.D. 1937, Yale University. (1940;1967)
- Paul F. de Gara, Emeritus Clinical Professor of Pediatrics. M.D. 1926, University of Heidelberg (Germany); M.D. 1927, University of Padua (Italy). (1941;1971)
- John E. Deltrick, Emeritus Professor of Medicine. B.S. 1929, Princeton University; M.D. 1933, Johns Hopkins University. (1945;1970)
- Edward H. Dennen, Emeritus Clinical Professor of Obstetrics and Gynecology. M.D. 1919, Tufts University. (1940;1965)
- Oskar Diethelm, Emeritus Professor of Psychiatry. M.D. 1923, University of Berne; M.D. (Hon.) 1957, University of Zurich. (1936;1962)
- R. Gordon Douglas, Emeritus Professor of Obstetrics and Gynecology. M.D., C.M. 1924, McGill University. (1932;1965)
- John W. Draper, Emeritus Clinical Professor of Surgery. M.A. 1927, Dartmouth College; M.D. 1931, Cornell University. (1940;1972)
- Vincent du Vigneaud, Emeritus Professor of Biochemistry. B.S. 1923; M.S. 1924, University of Illinois; Ph.D. 1927, University of Rochester. (1938;1967)
- Claude E. Forkner, Emeritus Professor of Medicine. A.B. 1922; A.M. 1923, University of California; M.D. 1926, Harvard University. (1940;1966)
- Richard H. Freyberg, Emeritus Clinical Professor of Medicine. A.B. 1926; M.D. 1930; M.S. 1934, University of Michigan. (1946;1969)
- Ralph W. Gause, Emeritus Clinical Professor of Obstetrics and Gynecology. M.D. 1930, Harvard University. (1940;1971)
- Frank Glenn, Emeritus Professor of Surgery. M.D. 1927, Washington University School of Medicine. (1940;1968)
- Phyllis Greenacre, Emeritus Clinical Professor of Psychiatry. B.S. 1913, University of Chicago; M.D. 1916, Rush Medical School. (1940;1962)
- Francis J. Hamilton, Emeritus Clinical Professor of Psychiatry. A.B. 1928, St. Joseph's College; M.D. 1933, Jefferson Medical College. (1940;1973)
- Edwin T. Hauser, Emeritus Clinical Professor of Medicine. A.B. 1916, College of the City of New York; M.D. 1922, Cornell University. (1940;1961)
- Louis F. Hausman, Emeritus Clinical Professor of Medicine (Neurology). B.A. 1912, College of the City of New York; M.D. 1916, Cornell University. (1940;1959)
- Joseph C. Hinsey, Emeritus Professor of Neuroanatomy. B.S. 1922; M.S. 1923; D.Sc. 1951, Northwestern University; Ph.D. 1927, Washington University. (1942;1967)
- Milton I. Levine, Emeritus Clinical Professor of Pediatrics. Consultant, New York Hospital. B.S. 1923, College of the City of New York; M.D. 1927, Cornell University. (1933;1972)
- Asa L. Lincoln, Emeritus Clinical Professor of Medicine. A.B., A.M. 1912, Elon College; M.D. 1916, Johns Hopkins University. (1943;1959)
- William F. MacFee, Emeritus Clinical Professor of Surgery. A.B. 1914, University of Tennessee; M.D. 1918, Johns Hopkins University. (1943;1958)
- John MacLeod, Emeritus Professor of Anatomy. B.A. 1934; M.Sc. 1937, New York University; Ph.D. 1941, Cornell University. (1942;1972)
- Ade T. Milhorat, Emeritus Clinical Professor of Medicine. A.B. 1924, Columbia University; M.D. 1928, Cornell University. (1940;1964)
- Walter Modell, Emeritus Professor of Pharmacology. B.S. 1928, College of the City of New York; M.D. 1932, Cornell University. (1940;1973)
- Samuel W. Moore, Emeritus Professor of Surgery. B.S. 1926, Davidson College; M.D. 1930, Harvard University. (1941;1971)
- Carl Muschenheim, Emeritus Clinical Professor of Medicine. A.B. 1928; M.D. 1931, Columbia University. (1940;1973)
- Joseph N. Nathanson, Emeritus Clinical Professor of Obstetrics and Gynecology. M.D.C.M. 1919, McGill University. (1940;1965)
- Robert Lee Patterson Jr., Emeritus Professor of Surgery (Orthopaedics). B.A. 1928, University of Georgia; M.D. 1932, Harvard University. (1951;1972)
- Ralph F. Phillips, Emeritus Clinical Professor of Radiology. M.S., B.S. 1928; M.S. 1930, University of London. (1950;1968)

* The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.

- Paul Reznikoff, Emeritus Clinical Professor of Medicine. B.S. 1916, New York University; M.D. 1920; Cornell University. (1940;1961)
- Sidney Rothbard, Emeritus Professor of Medicine. A.B. 1931, Colgate University; M.D. 1935, University of Rochester. (1951;1973)
- Frank R. Smith, Emeritus Clinical Professor of Obstetrics and Gynecology. B.A. 1917, Yale University; M.D. 1921, Harvard University. (1937;1965)
- Israel Steinberg, Emeritus Clinical Professor of Radiology. B.S. 1924; M.D. 1928, Harvard University. (1941;1967)
- Harold J. Stewart, Emeritus Clinical Professor of Medicine. A.B. 1915; M.D. 1919; M.A. 1923, Johns Hopkins University. (1940;1961)
- John Y. Sugg, Emeritus Professor of Microbiology. A.B. 1926; M.S. 1928; Ph.D. 1931, Vanderbilt University. (1932;1969)
- T. Campbell Thompson, Emeritus Clinical Professor of Surgery (Orthopaedics). A.B. 1924, Rollins College; M.D. 1928, Johns Hopkins University; D.M.S. 1936, Columbia University. (1951;1968)
- Edward Tolstoi, Emeritus Clinical Professor of Medicine. B.A. 1919, Yale University; M.D. 1923, Cornell University. (1940;1962)
- Preston A. Wade, Emeritus Clinical Professor of Surgery. A.B. 1922; M.D. 1925, Cornell University. (1940;1968)
- James H. Wall, Emeritus Clinical Professor of Psychiatry. M.D. 1927, Jefferson Medical College. (1940;1965)
- Bruce P. Webster, Emeritus Clinical Professor of Medicine. M.D., C.M. 1925, McGill University. (1940;1967)
- Irving S. Wright, Emeritus Clinical Professor of Medicine. A.B. 1923; M.D. 1926, Cornell University. (1946;1967)
- Amir Askari, Professor of Pharmacology. B.S. 1953, University of Dubuque; M.S. 1956, New York University; Ph.D. 1959, Cornell University. (1960;1973)
- Peter A. McF. Auld, Professor of Pediatrics. Attending Pediatrician, New York Hospital. B.A. 1948, University of Toronto; M.D.C.M. 1952, McGill University. (1962;1970)
- Hugh R. K. Barber, Clinical Professor of Obstetrics and Gynecology. Associate Attending Obstetrician and Gynecologist, New York Hospital; Associate Attending Obstetrician, Memorial Hospital. B.A. 1941; M.D. 1944, Columbia University. (1954;1972)
- William A. Barnes, Clinical Professor of Surgery. Attending Surgeon, New York Hospital. A.B. 1933, City College of New York; M.D. 1937, Cornell University. (1940;1967)
- Jeremiah A. Barondess, Clinical Professor of Medicine. Attending Physician, New York Hospital. M.D. 1949, Johns Hopkins University. (1953;1971)
- Alexander G. Bearn, Professor of Medicine (Chairman). Physician in Chief, New York Hospital. M.B.B.S. 1946; M.D. 1951, University of London. (1966)
- Edward J. Beattie Jr., Professor of Surgery. Chairman and Attending Surgeon, Memorial Hospital. B.A. 1939, Princeton University; M.D. 1943, Harvard University. (1965)
- David V. Becker, Professor of Radiology; Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1943; M.A. 1944, Columbia University; M.D. 1948, New York University. (1954;1972)
- E. Lovell Becker, Professor of Medicine. Attending Physician, New York Hospital. A.B. 1944, Washington and Lee University; M.D. 1948, University of Cincinnati. (1957;1969)
- J. Michael Bedford, Professor of Anatomy; Professor of Reproductive Biology in Obstetrics and Gynecology. B.A. 1955; M.A. 1958, Cambridge University (England); Ph.D. 1965, London University (England).
- Dorothea Bennett, Professor of Anatomy. B.A. 1951, Barnard College; Ph.D. 1956, Columbia University. (1962;1971)
- Barbara J. Betz, Adjunct Professor of Psychiatry. A.B. 1931, Mount Holyoke College; S.M. 1933; M.D. 1938, Johns Hopkins University. (1965;1972)
- Stanley J. Birnbaum, Professor of Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1942, Queens College; M.D. 1951, Cornell University. (1952;1971)
- Roy W. Bonsnes, Clinical Professor of Biochemistry in Obstetrics and Gynecology; Associate Professor of Biochemistry. B.S. 1930, University of Connecticut; Ph.D. 1939, Yale University. (1941;1950)
- William A. Briscoe, Professor of Medicine. Attending Physician, New York Hospital. B.A. 1939; M.A. 1941; B.M., B.Ch. 1942; D.M. 1951, Oxford University. (1968;1971)

Professors

- Edward H. Ahrens Jr., Hilda Altschul Master Professor of Medicine. Attending Physician, New York Hospital. B.S. 1937; M.D. 1941, Harvard University. (1970;1971)
- Benjamin Alexander, Clinical Professor of Medicine. Attending Physician, New York Hospital. A.B. 1930; M.D. 1934, Harvard University. (1966)
- Virginia Apgar, Clinical Professor of Pediatrics (Teratology). M.D. 1933, Columbia University; M.P.H. 1959, Johns Hopkins University; Med. Sc.D. 1964, Women's Medical College of Pennsylvania; D.Sc. 1965, Mount Holyoke; Med. Sc.D. 1967, New Jersey College of Medicine and Dentistry; D.Sc. 1969, Boston University. (1965;1971)
- Joseph F. Artusio Jr., Professor of Anesthesiology (Chairman). Anesthesiologist in Chief, New York Hospital. B.S. 1939, St. Peter's College; M.D. 1943, Cornell University. (1946;1967)

- Dana C. Brooks, Professor of Anatomy. B.E.E. 1949; M.D. 1957, Cornell University. (1955;1971)
- J. Robert Buchanan, Dean; Professor of Medicine. Attending Physician, New York Hospital. A.B. 1950, Amherst College; M.D. 1954, Cornell University. (1955;1971)
- Joseph H. Burchenal, Professor of Medicine. Attending Physician, Memorial Hospital. M.D. 1937, Pennsylvania University. (1949;1952)
- John J. Burns, Adjunct Professor of Pharmacology. B.S. 1942, Queens College; M.A. 1948; Ph.D. 1950, Columbia University. (1968)
- Edward J. Cafruny, Adjunct Professor of Pharmacology. A.B. 1950, Indiana University; Ph.D. 1955, Syracuse University; M.D. 1959, University of Michigan. (1973)
- Eric T. Carlson, Clinical Professor of Psychiatry. Attending Psychiatrist, New York Hospital. B.A. 1944, Wesleyan University; M.D. 1950, Cornell University. (1952;1970)
- Eric J. Cassell, Clinical Professor of Public Health. B.S. 1950, Queens College; M.A. 1950, Columbia University; M.D. 1954, New York University. (1959;1971)
- Charles L. Christian, Professor of Medicine. Attending Physician, New York Hospital. Physician in Chief, Hospital for Special Surgery. B.A. 1949, University of Wichita; M.D. 1953, Western Reserve University. (1970)
- Hartwig Cleve, Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1946, Helmstedt, Germany; M.D. 1953, University of Göttingen. (1967;1973)
- Giulio J. D'Angio, Professor of Radiology. Chairman, Department of Radiation Therapy, Memorial Hospital. A.B. 1943, Columbia University; M.D. 1945, Harvard University. (1968)
- Farrington Daniels Jr., Professor of Medicine (Dermatology) and Professor of Public Health. Attending Physician, New York Hospital. B.A. 1940; M.A. 1942, University of Wisconsin; M.D. 1943; M.P.H. 1952, Harvard University. (1947;1969)
- E. William Davis Jr., Clinical Professor of Obstetrics and Gynecology. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1947, Wesleyan University; M.D. 1951, Cornell University. (1952;1971)
- Peter Dineen, Professor of Surgery. Attending Surgeon, New York Hospital. M.D. 1947, Cornell University. (1948;1972)
- Vincent P. Dole, Adjunct Professor of Medicine. Attending Physician, New York Hospital. A.B. 1934, Stanford University; M.D. 1939, Harvard University. (1970)
- Murray Dworetzky, Clinical Professor of Medicine (Allergy). Attending Physician, New York Hospital. B.A. 1938, University of Pennsylvania; M.D. 1942, Long Island College of Medicine. (1951;1966)
- Paul A. Ebert, Johnson and Johnson Distinguished Professor of Surgery (Chairman). Surgeon in Chief, New York Hospital. B.S. 1954; M.D. 1958, Ohio State University. (1971)
- John T. Ellis, Professor of Pathology (Chairman). Pathologist in Chief, New York Hospital. B.A. 1942, University of Texas; M.D. 1945, Northwestern University. (1948;1968)
- Mary Allen Engle, Professor of Pediatrics. Attending Pediatrician, New York Hospital. A.B. 1942, Baylor University; M.D. 1945, Johns Hopkins University. (1948;1969)
- Ralph L. Engle Jr., Professor of Medicine; Clinical Professor of Public Health. Attending Physician, New York Hospital. B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins University. (1949;1973)
- John A. Evans, Professor of Radiology (Chairman). Radiologist in Chief, New York Hospital. B.S. 1931, New York University; M.D. 1935, Cornell University. (1950;1953)
- Aaron Feder, Clinical Professor of Medicine. Assistant Physician, New York Hospital. M.D. 1938, University of Maryland. (1941;1965)
- Arnold N. Fenton, Clinical Professor of Obstetrics and Gynecology. Director, Department of Obstetrics and Gynecology, North Shore Hospital. B.A. 1941, Lafayette College; M.D. 1944, Columbia University. (1971)
- Patrick J. Fitzgerald, Professor of Pathology. Attending Pathologist, New York Hospital; Attending Pathologist, Memorial Hospital. B.S. 1936, University of Massachusetts; M.D. 1940, Tufts University. (1966;1971)
- Joseph G. Fortner, Professor of Surgery. Attending Surgeon; Chief, Gastric and Mixed Tumor Service; Chief, Transplantation Service, Memorial Hospital. B.S. 1944; M.D. 1945, University of Illinois. (1954;1972)
- Robert H. Freiburger, Professor of Radiology. Attending Radiologist, New York Hospital. Director, Department of Radiology, Hospital for Special Surgery. M.D. 1949, Tufts University. (1956;1972)
- Fritz F. Fuchs, Given Foundation Professor of Obstetrics and Gynecology (Chairman). Obstetrician and Gynecologist in Chief, New York Hospital. M.D. 1944; Dr. Med. Sci. 1957, University of Copenhagen. (1965)
- William P. Given, Clinical Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1941, Harvard University; M.D. 1944, Cornell University. (1969;1971)
- Henry P. Goldberg, Clinical Professor of Pediatrics. Attending Pediatrician, New York Hospital. A.B. 1932; M.D. 1936, Johns Hopkins University. (1947;1971)
- Edward I. Goldsmith, Professor of Surgery. Assistant Attending Surgeon, New York Hospital. A.B. 1947; M.D. 1950, Cornell University. (1954;1972)
- Sanford Goldstone, Professor of Psychology in Psychiatry. Attending Psychologist, New York

- Hospital. B.S. 1947, City College of New York; Ph.D. 1953, Duke University. (1967)
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- William S. Howland, Professor of Anesthesiology. Attending Anesthesiologist, New York Hospital; Attending Anesthesiologist; Chairman, Department of Anesthesiology, Memorial Hospital. B.S. 1941, Notre Dame University; M.D. 1944, Columbia University. (1954;1968)
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- Frank A. Tomao, Clinical Assistant Professor of Medicine. B.S. 1961, Manhattan College; M.D. 1965, Cornell University. (1969;1973)
- Lester M. Tourk, Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, Westchester Division, New York Hospital. B.B.A. 1962; M.S. 1965, City College of New York; Ph.D. 1969, University of Pittsburgh. (1969;1970)
- Lewis N. Travis, Clinical Assistant Professor of Neurology. Assistant Attending Neurologist, New York Hospital. A.B. 1951, Harvard University; M.B., B.S. 1960, Middlesex Hospital Medical School. (1965;1970)

- Peter Tsairis, Assistant Professor of Neurology. Assistant Attending Neurologist, New York Hospital; Assistant Physician, Memorial Hospital; Assistant Attending Neurologist, Hospital for Special Surgery. B.S. 1970, Trinity College; M.D. 1965, Cornell University. (1971)
- Alan D. Turnbull, Assistant Professor of Surgery. M.D.C.M. 1961; M.Sc. 1965, McGill University. (1969;1973)
- Leibert S. Turner, Clinical Assistant Professor of Anesthesiology. A.B. 1955, University of Pennsylvania; M.D. 1959, Chicago Medical School. (1960;1973)
- Louis B. Turner, Clinical Assistant Professor of Medicine. B.A. 1952; M.D. 1944, Columbia University. (1971;1973)
- Alice Ullmann, Assistant Professor of Social Work in Medicine; Assistant Professor of Social Work in Public Health. B.A. 1947, Manchester University (England); M.S. 1952, Columbia University. (1964;1972)
- Frederick J. Vagnani, Clinical Assistant Professor of Surgery. B.S. 1958, City College of New York; M.D. 1963, St. Louis University. (1973)
- Thornton A. Vandersall, Assistant Professor of Pediatrics; Clinical Assistant Professor of Psychiatry. Assistant Attending Pediatrician, New York Hospital; Associate Attending Psychiatrist, North Shore Hospital. A.B. 1950, College of Wooster; M.D. 1954, Jefferson Medical College. (1958;1972)
- Konstantin P. Veliskakis, Clinical Assistant Professor of Surgery (Orthopaedics). Assistant Attending Surgeon (Orthopaedics), New York Hospital; Assistant Attending Orthopaedic Surgeon, Hospital for Special Surgery. M.D. 1948, American University of Beirut (Lebanon). (1968;1971)
- Vincent P. Vinceguerra, Assistant Professor of Medicine. B.A. 1962, Seton Hall University; M.D. 1966, Georgetown University. (1968;1973)
- Leonard Vinnick, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1956, Muhlenberg College; M.D. 1960, Jefferson Medical College. (1969;1972)
- John P. Viscardi, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, North Shore Hospital. M.D. 1953, New York Medical College. (1972)
- Louis J. Vorhaus, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1944, Harvard University; M.D. 1946, Columbia University. (1955;1965)
- Dragan Vuckovic, Clinical Assistant Professor of Anesthesiology. M.D. 1957, Belgrade University. (1972;1973)
- Gary I. Wadler, Assistant Professor of Medicine; Assistant Professor of Public Health. Assistant Attending Physician, New York Hospital; Associate Attending Physician, North Shore Hospital. B.S. 1960, Brooklyn College; M.D. 1964, Cornell University. (1965;1973)
- Robert S. Waldbaum, Clinical Assistant Professor of Surgery. B.A. 1958; M.D. 1962, Columbia University. (1969;1973)
- William D. Walden, Clinical Assistant Professor of Obstetrics and Gynecology. B.S. 1951, University of California; M.D. 1959, New York University. (1963;1973)
- Peter S. Walker, Assistant Professor of Bioengineering in Surgery (Orthopaedics). Assistant Director and Project Engineer, Department of Bioengineering, Hospital for Special Surgery. B.A. 1963; M.A. 1966, Cambridge University (England); Ph.D. 1969, Leeds University (England). (1969)
- Ellyn M. Wallace, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.A. 1951, Hunter College; B.S. 1954; M.D. 1960, New York University. (1972)
- Lila A. Wallis, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard College; M.D. 1951, Columbia University. (1952;1963)
- James R. Ware, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, Westchester Division, New York Hospital. A.B. 1949, Harvard University; M.D. 1953, Columbia University. (1966;1972)
- Porter H. Warren, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, Westchester Division, New York Hospital. M.D. 1952, Tulane University. (1965;1968)
- Claude G. Wasterlain, Assistant Professor of Neurology. Assistant Attending Neurologist, New York Hospital. Clinical Assistant Physician, Neuropsychiatry Service, Memorial Hospital. M.D. 1961, University de Liege (Belgium). (1964;1970)
- Carolyn W. Watson, Assistant Professor of Pathology. Assistant Attending Pathologist, New York Hospital. B.A. 1945, Hollins College; M.D. 1949, University of Maryland. (1965;1972)
- Henriette L. Wayne, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Bonn (Germany); Sc.D. 1940, University of Aix-Marseille (France). (1956;1964)
- John C. Weber, Assistant Professor of Anatomy. B.A. 1961, Colgate University; D.D.S. 1965, Columbia University. (1966;1969)
- Clinton G. Weiman, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1949, Princeton University; M.D. 1949, Cornell University. (1970)
- Aaron D. Weiner, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, Westchester Division, New York Hospital. B.A. 1940, Brooklyn College; M.D. 1951, Harvard University. (1970)
- Judith Weingram, Clinical Assistant Professor of Anesthesiology. Assistant Attending Anesthesiologist, New York Hospital. A.B. 1959, Barnard College; M.D. 1963, Albert Einstein College of Medicine. (1966;1973)

- Benedict X. Weinstein, Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.S. 1932, New York University; M.D. 1936, Tulane University. (1972)
- Howard S. Weiss, Clinical Assistant Professor of Medicine. Associate Attending Physician, North Shore Hospital. B.S. 1952, Wagner College; M.D. 1956, New York University. (1971)
- Jay M. Weiss, Clinical Assistant Professor of Psychology in Medicine. B.A. 1962, Lafayette College; Ph.D. 1967, Yale University. (1970)
- Babette B. Weksler, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1958, Swarthmore College; M.D. 1963, Columbia University. (1968;1970)
- Marc E. Weksler, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1958, Swarthmore College; M.D. 1962, Columbia University. (1968;1970)
- Virginia Werden, Clinical Assistant Professor of Obstetrics and Gynecology. B.A. 1935, Pennsylvania State College; M.D. 1948, University of Pennsylvania. (1955;1972)
- J. Mariun Wertheim, Clinical Assistant Professor of Medicine. M.B. 1950; M.D. 1951; Chicago Medical College. (1971;1973)
- William D. Wheat, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, Westchester Division, New York Hospital. B.S. 1946; M.D. 1950, Louisiana State University. (1964)
- Paul C. White Jr., Clinical Assistant Professor of Medicine; Clinical Assistant Professor of Public Health. Consultant, Infectious Disease, North Shore Hospital. A.B. 1950, Mercer University; M.S. 1952, Florida State University; M.D. 1960, Emory University; M.P.H., T.M. 1962, Tulane University. (1972)
- Horace W. Whiteley Jr., Clinical Assistant Professor of Surgery. Associate Attending Surgeon, Memorial Hospital. A.B. 1951, University of Pennsylvania; M.D. 1955, State University of New York. (1962;1971)
- Melvin L. Wiedman, Clinical Assistant Professor of Medicine. B.S. 1954; M.D. 1958, University of Vermont. (1971;1973)
- Carl Wierum, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1945, Columbia University; M.D. 1951, Cornell University. (1952;1967)
- Gary N. Wilner, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1961; M.D. 1967, University of Maryland. (1970;1972)
- Barbara C. Wilson, Clinical Assistant Professor of Psychology in Psychiatry. Pediatric Neuropsychologist, North Shore Hospital. B.A. 1948, Brooklyn College; Ph.D. 1964, New York University. (1972)
- Peter G. Wilson, Assistant Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. A.B. 1953; M.D. 1957, Columbia University. (1959;1968)
- Robert J. Winchester, Clinical Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. M.D. 1963, Cornell University. (1964;1971)
- Muriel C. Winestine, Clinical Assistant Professor of Psychology in Psychiatry. B.S. 1942, Brooklyn College; M.S. 1943, Columbia University; Ph.D. 1964, New York University. (1973)
- Carl F. Wolf, Assistant Professor of Pathology. B.S. 1953; M.S. 1954, Massachusetts Institute of Technology; M.D. 1968, Hahnemann Medical College. (1968;1973)
- Harvey I. Wolfe, Clinical Assistant Professor of Pediatrics. Active Staff, North Shore Hospital. B.A. 1952, University of Pennsylvania. (1972)
- Michael J. Wolk, Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. A.B. 1960, Colgate University; M.D. 1964, Columbia University. (1969;1970)
- Jack F. Woodruff, Assistant Professor of Pathology. Assistant 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. Assistant Attending Pathologist, Memorial Hospital. B.A. 1958, University of Massachusetts; M.D. 1963, Temple University. (1965;1972)
- Jean R. Wrathall, Assistant Professor of Genetics in Obstetrics and Gynecology. B.S. 1964, Ph.D. 1969, University of Utah. (1970;1973)
- Katsuhiko Yano, Assistant Professor of Public Health. M.D. 1951; Ph.D. 1961, Hiroshima Prefectural Medical College. (Japan). (1967)
- Alvin R. Yapalater, Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, Westchester Division, New York Hospital. B.A. 1943, Oklahoma University; M.D. 1946, Tulane University. (1966)
- Samuel D. S. Yeh, Assistant Professor of Medicine. Assistant Attending Physician, Memorial Hospital. M.D. 1948, National Defense Medical Center (China); Sc.D. 1960, Johns Hopkins University. (1965;1969)
- Charles W. Young, Assistant Professor of Medicine. Associate Attending Physician, Memorial Hospital. A.B. 1952, Columbia University; M.D. 1956, Harvard University. (1966)
- Louis C. Zang, Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, Westchester Division, New York Hospital. M.D. 1946, Baylor University. (1969;1970)
- Stanley S. Zipser, Clinical Assistant Professor of Pediatrics. Associate Attending Pediatrician, New York Hospital. B.A. 1932, Columbia University; M.D. 1936, Long Island College of Medicine. (1947;1961)
- Philip H. Zweifach, Clinical Assistant Professor of Neurology; Clinical Assistant Professor of Ophthalmology. Assistant Attending Neurol-

ogist; Assistant Attending Ophthalmologist, New York Hospital. B.S. 1957, College of the City of New York; M.D. 1961, Cornell University. (1963;1970)

Internship Appointments

Class of 1973

- Robert I. Appel, Medicine; Boston City Hospital, Boston, Massachusetts
- John R. Batiuchok, Pediatrics Residency; University Hospitals, Madison, Wisconsin
- Neil A. Beinhaker, Surgery; The New York Hospital, New York, New York
- Stuart M. Bergman, Surgery; University of Utah Affiliated Hospitals, Salt Lake City, Utah
- James L. Bernat, Medicine; Mary Hitchcock Memorial Hospital, Hanover, New Hampshire
- Robert J. Berry, Pediatrics Residency; The New York Hospital-Memorial Hospital, New York, New York
- William Blankenship, Rotation 4; Strong Memorial Hospital, Rochester, New York
- Esther S. Bleier, Surgery; Temple University Affiliated Hospitals, Philadelphia, Pennsylvania
- Henry R. Bleier, Medicine; University of Pennsylvania Hospital, Philadelphia, Pennsylvania
- William C. Bond, Medicine; Los Angeles County—University of Southern California Medical Center, Los Angeles, California
- Francis J. Browne, Medicine; North Shore—Memorial Hospital, Manhasset, New York
- Amelia Burnham, Psychiatry Residency; University of Virginia, Charlottesville, Virginia
- Richard M. Cabot, Surgery Residency; Stanford University, Stanford, California
- David J. Caro, Surgery Residency; North Shore Hospital, Manhasset, New York
- Peter J. Corines, Surgery; Johns Hopkins Hospital, Baltimore, Maryland
- Ralph C. Di Iorio, Medicine; Georgetown University Hospital, Washington, D.C.
- William A. Donnelly, Medicine; Roosevelt Hospital, New York, New York
- Craig B. DuMond, Surgery; University of Michigan Affiliated Hospitals, Ann Arbor, Michigan
- Allen M. Epstein, Medicine; The New York Hospital—Memorial Hospital, New York, New York
- Lonnie Epstein, Surgery; University Hospital, Iowa City, Iowa
- Joseph Feinberg, Surgery; The New York Hospital, New York, New York
- Gregory A. Filice, Medicine; University of Minnesota Hospitals, Minneapolis, Minnesota
- Bertram M. Froehly, Medicine; The New York Hospital—Memorial Hospital, New York, New York
- Allan Gibofsky, Pathology/Medicine; The New York Hospital—Memorial Hospital, New York, New York
- George M. Goldmark, Surgery; The New York Hospital, New York, New York
- Harry Goldmark, Surgery; The New York Hospital, New York, New York
- Howard Greilshheimer, Medicine; Cedars Sinai Medical Center, Los Angeles, California
- Douglas R. Hadley, Family Practice; University of Utah Affiliated Hospitals, Salt Lake City, Utah
- Edward L. Hedlund, Medicine; University of Iowa Hospitals, Iowa City, Iowa
- William P. Homan, Surgery; The New York Hospital, New York, New York
- David D. Hunt, Rotation 6; University of Pennsylvania Hospital, Philadelphia, Pennsylvania
- Richard P. Ingrassi, Psychiatry Residency; University of California (Davis) Sacramento County, Mental Health Service, California
- Allan L. Kayne, Rotation 1; The Greater Baltimore Medical Center, Baltimore, Maryland
- Thomas J. Kinane, Medicine; Tripler General Hospital, Honolulu, Hawaii
- Daniel B. Klein, Medicine; University of New Mexico Affiliated Hospitals, Albuquerque, New Mexico
- Mark S. Klempner, Medicine; Massachusetts General Hospital, Boston, Massachusetts
- Lawrence W. Koblenz, Medicine; The New York Hospital—Memorial Hospital, New York, New York
- Jerold J. Kreisman, Rotation 6; Denver General Hospital, Denver, Colorado
- Roy G. Kulick, Surgery; St. Luke's Hospital, New York, New York
- Paul B. Lang, Pediatrics Residency; Los Angeles County—University of Southern California Medical Center, Los Angeles, California
- Gerard V. LaSalle, Surgery; University of California (Irvine) Affiliated Hospitals, Irvine, California
- Charles S. Levy, Rotation 9; Washington Hospital, Washington, D.C.
- Richard M. Linchitz, Medicine; University of California Hospitals, San Francisco, California
- Gary C. Linn, Surgery; The New York Hospital, New York, New York
- Benjamin A. Lipsky, Medicine; University of Washington Affiliated Hospitals, Seattle, Washington
- Dennis J. Lutz, Medicine; University of New Mexico Affiliated Hospitals, Albuquerque, New Mexico
- John J. Malgieri, Surgery; Case Western Reserve University Affiliated Hospitals, Cleveland, Ohio
- Albert H. Mangold, Pediatrics Residency; Strong Memorial Hospital, Rochester, New York
- Mark H. Mazur, Medicine; University of Pennsylvania Hospital, Philadelphia, Pennsylvania
- Philip J. McWhorter, Surgery; The New York Hospital, New York, New York
- Paul A. Menitoff, Surgery; University Hospital, Boston, Massachusetts

- John A. Michal, Rotation 0; Santa Barbara General-Cottage Hospital, Santa Barbara, California
- Jay A. Midwall, Medicine; The New York Hospital-Memorial Hospital, New York, New York
- John P. Mitchell, Rotation 9; Harlem Hospital, New York, New York
- Michael J. Murphy, Surgery; Roosevelt Hospital, New York, New York
- Stuart B. Mushlin, Medicine; Peter Bent Brigham Hospital, Boston, Massachusetts
- John T. Nagurney, Medicine; The New York Hospital-Memorial Hospital, New York, New York
- Peter T. Nieh, Surgery; Massachusetts General Hospital, Boston, Massachusetts
- Terrence A. O'Malley, Medicine; Massachusetts General Hospital, Boston, Massachusetts
- Neil E. Pauker, Psychiatry Residency; The New York Hospital, New York, New York
- Jon A. Perlman, Surgery; Massachusetts General Hospital, Boston, Massachusetts
- Jeffrey M. Piehler, Surgery; Mary Hitchcock Memorial Hospital, Hanover, New Hampshire
- Vincent G. Pons, Medicine; University of California, San Francisco, California
- Joseph A. Putrino, Rotation 9, Hackensack Hospital, Hackensack, New Jersey
- John C. Quatromoni, Surgery; Los Angeles County-University of Southern California Medical Center, Los Angeles, California
- Neil D. Ravin, Medicine; The New York Hospital-Memorial Hospital, New York, New York
- Lawrence T. Reese, Medicine; Bellevue Hospital Center-New York University, New York, New York
- Brendan M. Reilly, Medicine; Mary Hitchcock Memorial Hospital, Hanover, New Hampshire
- Philip C. Reilly, Medicine; The New York Hospital-Memorial Hospital, New York, New York
- William M. Riedesel, Psychiatry Residency; Barnes Hospital, St. Louis, Missouri
- John F. Romano, Surgery; Albert Einstein College of Medicine Affiliated Hospitals, New York, New York
- Stanley Rosenbaum, Medicine; Presbyterian Hospital, New York, New York
- Michael Rubottom, Rotation 9; Hospital of the Good Samaritan, Los Angeles, California
- Richard J. Ryter, Medicine; University Hospitals of Cleveland, Cleveland, Ohio
- Arthur B. Sanders, Medicine; University of Arizona Affiliated Hospitals, Tucson, Arizona
- W. Michael Scheld, Medicine; University of Virginia, Charlottesville, Virginia
- Edward M. Sessa, Pediatrics Residency; Strong Memorial Hospital, Rochester, New York
- Clifford J. Simon, Medicine; Mary Hitchcock Memorial Hospital, Hanover, New Hampshire
- Mark C. Sivakoff, Pediatrics; St. Louis Children's Hospital, St. Louis, Missouri
- J. Jack Skowronski, Medicine; Boston City Hospital, Boston, Massachusetts
- Sherman G. Sorensen, Medicine; University of Washington Affiliated Hospitals, Seattle, Washington
- Jerome W. Takiff, Medicine; St. Louis Jewish Hospital, St. Louis, Missouri
- William F. Taylor, Medicine; University of Washington Affiliated Hospitals, Seattle, Washington
- JoAnn Theodore, Surgery; Beth Israel Hospital, Boston, Massachusetts
- Richard E. Tosi, Medicine; The Greater Baltimore Medical Center, Baltimore, Maryland
- Robert K. Von Rueden, Medicine; Presbyterian-St. Luke's Hospital, Chicago, Illinois
- Franzanne Vreeland, Medicine; The New York Hospital-Memorial Hospital, New York, New York
- Brian K. Walker, Medicine; Temple University Affiliated Hospitals, Philadelphia, Pennsylvania
- Nicholas G. Ward, Rotation 6; University Hospitals, Madison, Wisconsin
- Jeffrey S. Wasser, Medicine; The New York Hospital-Memorial Hospital, New York, New York
- David L. Zigelman, Pediatrics Residency; The New York Hospital-Memorial Hospital, New York, New York

Students, 1973-74

The name of each student is followed by his degrees, including date and place received, and his home address.

Fourth Year

- Victor Paul Addonizio, B.A. 1970, New York University; Brooklyn, New York
- John Bruce Bartolini, A.B. 1970, Cornell University; Morristown, New Jersey
- Frederick Calvin Basilico, B.S. 1970, Fairfield University; Providence, Rhode Island
- Charles Francis Besanceney, B.S. 1968, United States Military Academy; Elmira, New York
- Rita Ann Blanchard, B.A. 1966, Vassar College; New York, New York
- James Ferdinand Caravelli, B.S. 1970, University of Illinois; No. Chicago, Illinois
- Dominick Raymond Chiarieri, B.S. 1970, St. Peter's College; Belleville, New Jersey
- Arvin Hong Chin, B.S. 1970, Cornell University; Queens, New York
- Michael Alton Chizner, B.A. 1970, New York University; Lawrence, New York
- Steven Norton Cohen, A.B. 1970, Boston University; Hartford, Connecticut
- Nora Cooke, B.S. 1968, Tulane University; Mexico City, Mexico
- Sol Jay Dan, B.A. 1970, Yeshiva University; Memphis, Tennessee
- Allan Roy De Jong, A.B. 1970, Colgate University; Hawthorne, New Jersey
- George Caldwell Ellis, B.A. 1970, Brown University; New York, New York

- John Benjamin Famiglietti, B.S. 1970, St. Peter's College; Jersey City, New Jersey
- Joseph Finkelstein, B.A. 1970, Hofstra University; New York, New York
- Marsha Fretwell, B.A. 1965, Mary Washington College; Winchester, Virginia
- Alan Jerry Friedman, B.A. 1970, University of Pennsylvania; Flushing, New York
- David Roger Fulton, A.B. 1970, Clark University, Scarsdale, New York
- Roger Dale Gingrich, B.A. 1970, Macalester College; Roanoke, Illinois
- Burton Mark Gold, B.A. 1970, New York University; New Rochelle, New York
- Alan Warren Goldfeder, B.S. 1970, McGill University; Norwalk, Connecticut
- Daniel Benjamin Goodman, B.A. 1970, Yale University; North Caldwell, New Jersey
- Terrence Lynn Goodman, A.B. 1970, Cornell University; Williamsport, Pennsylvania
- Jane Margaret Grant, A.B. 1971, Smith College; Rye, New York
- Steven Ifor Gutman, B.S. 1970, Ohio State University; Dayton, Ohio
- Roger Pettit Harrie, B.S. 1970, University of Utah; Salt Lake City, Utah
- Joseph Laverne Harris, B.S. 1970, American University; Washington, D.C.
- Henry Jim Hernandez, B.A. 1970, City College of New York; Bronx, New York
- George Perry Hubert, B.S. 1967, United States Military Academy; Merrick, New York
- Alan Howard Jaffe, B.A. 1970, Amherst College; Great Neck, New York
- Marc Edward Kaminsky, B.A. 1970, Emory University; Savannah, Georgia
- Jonathan Eliot Kaplan, A.B. 1969, Cornell University; Columbus, Ohio
- Stephen Rogers Karl, A.B. 1969, Cornell University; Etna, New Hampshire
- Eric John Kawaoka, B.A. 1970, University of Hawaii; Honolulu, Hawaii
- Barry Dana Kels, B.A. 1970, Franklin and Marshall College; Merrick, New York
- Paul King, B.A. 1965, Brooklyn College; M.S. 1969, Long Island University; Brooklyn, New York
- Robert William Kohn, B.A. 1970, Yale University; Elkins Park, Pennsylvania
- John Newton Krieger, A.B. 1970, Princeton University; Ellenville, New York
- Gilbert Joseph Kuhn, B.A. 1967, University of San Francisco; San Francisco, California
- Carl Martin Leichter, B.A. 1970, Kenyon College; Woodmere, New York
- Marshall Richard Levine, B.A. 1970, Emory University; Miami Beach, Florida
- Sidney Leonard Levinson, A.B. 1970, Cornell University; Middletown, Connecticut
- Stuart Bryson Ley, B.A. 1970, Dartmouth College; Rye, New York
- Laurence Howard Lief, B.A. 1970, Princeton University; Olivette, Missouri
- Ka-Shui Lo, B.S. 1970, McGill University; Hong Kong, China
- Richard Nathan Lopatin, B.A. 1970, Wesleyan University; Fairfield, Connecticut
- John Walton Lugar, B.A. 1970, Dartmouth College; Memphis, Tennessee
- Robert William Mackie, B.A. 1970, Hobart College; Cooperstown, New York
- Leonard Louis Magnani, B.A. 1966, M.A. 1967, Queens College; Ph.D. Stanford University; Stanford, California
- Philip John Makowski, B.S. 1970, Georgetown University; Williston Park, New York
- Paul Maller, B.A. 1970, Queens College; Jamaica, New York
- David Alan Mayer, A.B. 1970, Lafayette College; New York, New York
- Richard Lucas McCann, B.A. 1970, Middlebury College; Yarmouth, Maine
- Thomas Patrick McGovern, B.E.E. 1968, Manhattan College; New York, New York
- Dennis Bernard McIntyre, A.B. 1969, Fordham University; Port Washington, New York
- Jay Blaine Miller, A.B. 1970, Cornell University; York, Pennsylvania
- Paul David Mitnick, A.B. 1970, Cornell University; Plainview, New York
- Richard Michael Moccia, B.A. 1970, Columbia University; Bronx, New York
- Mark Harlow Montgomery, B.A. 1970, Denison University; Springfield, Illinois
- John Edward Nees, B.S. 1970, Cornell University; Lafayette, Indiana
- Judith Ann Nowak, A.B. 1970, Cornell University; Romulus, New York
- Sharon Elefant Oberfield, A.B. 1970, Cornell University; New York, New York
- Bella Pace, A.B. 1970, Cornell University; New York, New York
- Lynda Michele Parker, B.A. 1968, C. W. Post College; M.S. 1970, New York University; Philadelphia, Pennsylvania
- Winston St. Clair Price, B.A. 1970, Brooklyn College; Brooklyn, New York
- Peter Francis Purcell, B.A. 1970, College of the Holy Cross; Schenectady, New York
- Robert James Quinet, B.A. 1970, Rutgers College; Edison, New Jersey
- John Scott Raymond, B.A. 1970, Utah State University; Logan, Utah
- William Vincent Rees, B.A. 1970, University of Utah; Salt Lake City, Utah
- Robert Allan Reichert, B.A. 1970, Amherst College; Wilmette, Illinois
- Gene David Resnick, B.S. 1970, Cornell University; Oceanside, New York
- Charles Milton Rhodes, B.A. 1970, Hampton Institute; Elizabethtown, North Carolina
- Ronald Nathan Riner, B.A. 1970, Princeton University; Peekskill, New York
- Allan Howard Ropper, A.B. 1970, Cornell University; New York, New York
- Alfred Sakradse, B.A. 1970, Queens College; College Point, New York
- James Tahlman Saunders, B.A. 1970, Hampton Institute; Antigua, West Indies
- Henry Mark Scagliola, B.A. 1970, Fordham University; New York, New York

Thomas John Schreiber, B.S. 1970, Muhlenberg College; Ventnor, New Jersey
 Kenneth James Smith, B.A. 1970, Fordham University; White Plains, New York
 Peter Howard Stone, B.A. 1970, Princeton University; Maplewood, New Jersey
 Donald Folusho Temple, B.A. 1970, Hampton Institute; Sierra Leone, West Africa
 Ronald Seymour Weaver, B.S. 1970, Hobart College; St. Albans, New York
 Michael Alan Weitz, B.S. 1970, Muhlenberg College; Woodbury, New York
 Robert Lloyd Weston, B.A. 1970, Rutgers University; Sussex, New Jersey
 Charles Warren Whitney, B.A. 1970, Alfred University; Chemung, New York
 Barry Martin Wilkes, B.A. 1970, New York University; Brooklyn, New York
 Lytton Ade-Kunle Williams, B.A. 1970, Hampton Institute; Sierra Leone, West Africa
 Calvin Y. H. Wong, A.B. 1970, Cornell University; Honolulu, Hawaii
 Richard John Yarger, B.A. 1970, Northwestern University; Dayton, Ohio
 Robert Claringbold Young, B.A. 1969, Williams College; Binghamton, New York
 Michael James Zema, B.S. 1970, Fordham University; East Paterson, New Jersey

Third Year

Judith Leslie Adler, B.S. 1971, Cornell University; New York, New York
 Lorraine Christian Allen, B.S. 1971, Long Island University; New York, New York
 Thomas Michael Anger, B.A. 1966, Lawrence University; M.S. 1968, University of Wisconsin; Oshkosh, Wisconsin
 Francis Peter Arena, B.S. 1970, Fordham University; Forest Hills, New York
 Paul Mark Baker, B.S. 1971, Davidson College, Miami, Florida
 Patrick Laselva Ballen, B.A. 1971, Queens College; Laurelton, New York
 Warrick Lee Barrett, A.B. 1971, Saint Louis University; Springfield, Ohio
 Thomas Russell Beck, B.S. 1971, Yale University; Belmont, Massachusetts
 Richard Albert Berg, B.A. 1971, Williams College; Carlisle, Pennsylvania
 Roger Glen Berlin, B.A. 1971, Queens College; Bayside, New York
 Richard Bruce Birrer, B.A. 1971, Lehigh University; Morristown, New Jersey
 Deborah Blum, B.A. 1971, Smith College; Maplewood, New Jersey
 Helen Elizabeth Blumen, B.A. 1971, Radcliffe College; Ithaca, New York
 David Steven Blumenthal, A.B. 1971, Cornell University; Westbury, New York
 Richard Scott Boas, A.B. 1971, Cornell University; Great Neck, New York
 Jeffrey Norman Bradshaw, B.S. 1971, Brooklyn College; Brooklyn, New York
 Alan Norman Braverman, A.B. 1971, Hamilton College; Oradell, New Jersey
 Stuart Paul Brogadir, B.A. 1971, Yale University; Ansonia, Connecticut
 Robert Edmund Burke, B.A. 1971, Dartmouth College; Trumbull, Connecticut
 Edmund Y. M. Chein, A.B. 1971, University of Southern California; Los Angeles, California
 Michael Oliver Christian, B.A. 1971, Hofstra University; Christiansted, Virgin Islands
 Paul Allan Church, B.S. 1971, Pennsylvania State University; Chappaqua, New York
 Kenneth Howard Cohen, B.S. 1971, City College of New York; Yonkers, New York
 Richard Peter Cohen, A.B. 1971, Clark University; Roslyn Heights, New York
 Richard Lee Curtis, B.A. 1971, Boston University; West Roxbury, Massachusetts
 Thomas John Delaney, A.B. 1971, Cornell University; Oneonta, New York
 James Anthony Diggs, B.A. 1971, Hampton Institute; Washington, D.C.
 Roger Gordon Faix, A.B. 1971, Dartmouth College; Woodbury, New Jersey
 Virginia Mary Fallon, B.A. 1971, Wellesley College; Needham, Massachusetts
 Joseph Peter Ferrara, B.S. 1971, Fairfield University; Wantagh, New York
 Elvira Ann Foglia, B.S. 1971, Fordham University; Brooklyn, New York
 Stuart Warren Fox, A.B. 1971, Cornell University; Cliffside Park, New Jersey
 Roger William Geiss, B.S. 1969, Georgetown University; Pearl River, New York
 Matthew David Gold, B.S. 1971, Yale University; Brooklyn, New York
 Paul Bernard Goldberg, A.B. 1971, Cornell University; Hollis, New York
 Milagros Gonzalez, B.S. 1971, City College of New York; New York, New York
 Steven Marc Grunberg, A.B. 1971, Cornell University; North Caldwell, New Jersey
 Daniel Francis Hanley, B.A. 1971, Williams College; Brunswick, Maine
 Roger Glennie Hicks, A.B. 1970, Brown University; Rochester, New York
 Stephen Lev Hoffman, B.A. 1970, University of Pennsylvania; Deal Park, New Jersey
 Cosmo Gordon Jacobs, B.A. 1970, Hampton Institute; Antigua, West Indies
 Norman Millard James, A.B. 1971, Rutgers University; Trenton, New Jersey
 David Rees Jones, B.S. 1971, Ohio State University; Ithaca, New York
 George Paul Kacoyanis, B.A. 1971, Columbia University; Somerville, Massachusetts
 Richard Steven Kampf, B.S. 1971, Washington & Lee University; Scarsdale, New York
 Thomas Martin Kelly, B.A. 1971, Fordham University; Buffalo, New York
 Stephen Jeffrey Kornfeld, B.A. 1971, Union College; Roslyn Heights, New York
 Dennis Bruce Kottler, B.A. 1971, Yale University; Elizabeth, New Jersey
 Henry Ronald Krumholz, B.A., B.S. 1967, Lehigh University; West Orange, New Jersey
 Suzanne Paula Lagarde, B.A. 1971, Fordham University; Westport, Massachusetts

- Cleland Campbell Landolt, A.B. 1971, Harvard University; Rye, New York
 Robert Alan Linden, A.B. 1971, Cornell University; Rye, New York
 John Christopher Luke, B.S. 1971, Wagner College; Staten Island, New York
 Christopher John Lynch, A.B. 1971, Holy Cross College; Bethel, Connecticut
 James Cardie Macmillan, A.B. 1971, Cornell University; North Babylon, New York
 Robert Philip Mantica, B.A. 1970, Amherst College; Milton, Massachusetts
 Maughn Matsuoka, S.B. 1971, Massachusetts Institute of Technology; Honolulu, Hawaii
 Richard Ronald McCormack, Jr., A.B. 1969, Cornell University; Nutley, New Jersey
 Michael Kent McLeod, B.A. 1971, Brooklyn College; Brooklyn, New York
 Brenda Harris Miller, B.A. 1971, City College of New York; New York, New York
 Carlyle Harvey Miller, B.A. 1971, Columbia University; Bronx, New York
 Paul Frederick Miskovitz, B.S. 1971, SUNY at Stony Brook; Lawrence, New York
 Alan Arthur Morgenstein, B.S. 1971, SUNY at Stony Brook; Brooklyn, New York
 Joshua George Frederick Nagin, A.B. 1971, Cornell University; Neponsit, New York
 Ronald Jay Neimkin, A.B. 1971, Rutgers University; Glen Rock, New Jersey
 James Harvey Newman, A.B. 1971, Cornell University; Scranton, Pennsylvania
 Robert Stephen O'Connell, B.A. 1971, Williams College; Fairfield, Connecticut
 Mary Margaret O'Sullivan, B.A. 1971, Fordham University; Bronx, New York
 Jean William Pape, B.S. 1971, Columbia University; Elmhurst, New York
 Paul Mario Pellicci, B.A. 1971, The Johns Hopkins University; Glen Rock, New Jersey
 Jane Veronica Petroff, A.B. 1971, Cornell University; Monmouth, New Jersey
 William John Powers, B.A. 1971, Dartmouth College; Westport, Connecticut
 Richard Merritt Reich, B.A. 1971, Yale University; New Rochelle, New York
 Richard George Robinson, A.B. 1971, Oberlin College; Lynbrook, New York
 Joel Martin Rosen, B.S. 1971, Brooklyn College; Brooklyn, New York
 Russell Lloyd Ranson Ryan, B.A. 1971, Amherst College; E. Grand Rapids, Michigan
 Howard Irwin Schenker, A.B. 1971, Cornell University; Freeport, New York
 Ronald Martin Schlansky, B.S. 1970, Rider College; East Brunswick, New Jersey
 Walter Frederick Schlech III, B.A. 1971, Williams College; Williamstown, Massachusetts
 Daniel George Schwartzberg, B.A. 1967, Columbia University; M.A. 1969, Yeshiva University; Woodmere, New York
 Steven Fred Seidman, B.S. 1971, University of Pennsylvania; Philadelphia, Pennsylvania
 David Gary Silverman, B.A. 1971, Hofstra University; Long Beach, New York
 Mark Alan Spiegel, B.A. 1971, Yale University, Washington, D.C.
 John Wilbur Stakes, III, B.A. 1971, Williams College; E. Patchogue, New York
 Arnold Bruce Sterman, B.A. 1971, New York University; Yonkers, New York
 Mark Benjamin Stoopler, B.S. 1971, Tulane University; Great Neck, New York
 David Duval Thompson, Jr., A.B. 1971, Cornell University; Tenafly, New Jersey
 Karen Toskos, B.A. 1971, Adelphi University; Great Neck, New York
 Richard Walter Tureck, B.S. 1971, Manhattan College; Yonkers, New York
 Norman Bennet Turoff, B.A. 1971, Yeshiva University; Far Rockaway, New York
 Robert David Turoff, B.A. 1971, Queens College; Westbury, New York
 Douglas Malcolm Vogeler, B.A. 1971, Kenyon College; Cincinnati, Ohio
 Arthur Warren Wardell, A.B. 1971, Cornell University; Babylon, New York
 Sharon LaVerne Wardlaw, B.S. 1970, Cornell University; Scarsdale, New York
 Natalie Jean Warner, B.A. 1969, Swarthmore College; New York, New York
 Hubert Weinberg, B.A. 1971, Yeshiva University; Spring Valley, New York
 Judith Whitcomb, B.A. 1967, Mount Holyoke College; M.P.H. 1971, Yale University; W. Hartford, Connecticut
 Michele Linda Winter, B.A. 1971, Barnard College; Brooklyn, New York
 Arnold David Yagoda, B.A. 1971, Yeshiva University; Flushing, New York
 Wilfred Wee Bin Yee, B.A. 1971, University of Hawaii; Honolulu, Hawaii

Second Year

- Brian Jeffrey Acker, B.S. 1972, SUNY at Stony Brook; Queens, New York
 Burt Alan Adelman, B.S. 1972, Trinity College; Bronx, New York
 Douglas Lorne Arnold, B.S. 1972, McGill University; Montreal, Canada
 Joanne Elizabeth Backofen, B.S. 1972, St. John's University; Queens, New York
 Jane Elizabeth Bailowitz, A.B. 1972, Cornell University; Queens, New York
 Richard Michael Bargar, B.A. 1972, Harvard University; Newton, Massachusetts
 Steven N. Bass, B.S. 1972, City College of New York; Bronx, New York
 Donald Vincent Belsito, B.S. 1972, Georgetown University; Worcester, Massachusetts
 Pasquale William Benedetto, B.S. 1972, Georgetown University; Berwyn, Illinois
 Barbara Anne Bossart, B.A. 1972, Rutgers University; Saddle River, New Jersey
 William Clement Bowens, B.S. 1969, City College of New York; New York, New York
 Harold Gilbert Brandford, B.S. 1972, Pace College; Brooklyn, New York
 Bruce Braverman, B.S. 1972, Brooklyn College; Brooklyn, New York

- Stephen Edward Carlson, A.B. 1972, Bucknell University; Glen Cove, New York
- Robert Anthony Chapman, B.S. 1972, Haverford College; Roosevelt, New York
- Jackie (Jyk How) Chuong, B.A. 1972, Columbia University; Jackson Heights, New York
- Jonathan Allen Cohn, A.B. 1972, Harvard University; Brooklyn, New York
- Ruben Cuadrado, B.S. 1972, New York Institute of Technology; Brooklyn, New York
- Jerome Francis Cuyler, B.A. 1966, Marist College; St. Albans, New York
- Robert William D'Acquisto, A.B. 1972, Princeton University; Calverton, New York
- Gary Joseph DeFilipp, B.A. 1972, Wayne State University; Detroit, Michigan
- Michael William Draper, B.S. 1968, Brigham Young University; New York, New York
- Melissa Susan Pashow Dubroff, B.A. 1972, Vassar College; Great Neck, New York
- Thomas Alfred Einhorn, A.B. 1972, Rutgers University; Short Hills, New Jersey
- Ralph Landis Engle, III, B.S. 1972, Duke University; Pelham Manor, New York
- Hector Estepan, B.E. 1966, City College of New York; Bronx, New York
- Greg Thomas Everson, B.A. 1972, University of North Dakota; Bismarck, North Dakota
- Kenneth Saul Felder, B.S. 1972, Brooklyn College; Brooklyn, New York
- Carl Seth Friedman, B.A. 1972, Williams College; Mount Vernon, New York
- Robert Friedman, A.B. 1972, Princeton University; Patchogue, New York
- William Rose Furman, B.S. 1972, Michigan State University; Westbury, New York
- Kenneth Gantz, B.A. 1972, Queens College; New York, New York
- John Anthony Garofalo, B.A. 1972, Hofstra University; East Meadow, New York
- Merril Joy Gersten, B.A. 1972, Barnard College; Jamaica, New York
- Bernard Gitler, B.S. 1972, Massachusetts Institute of Technology; Yonkers, New York
- Harvey Lee Goldberg, B.S.E.E. 1972, Massachusetts Institute of Technology; Whitestone, New York
- Deborah Ann Goldfarb, A.B. 1972, Radcliffe College; New York, New York
- Geoffrey Jon Gottlieb, A.B. 1972, Cornell University; Worcester, Massachusetts
- Richard Evan Greenberg, B.A. 1972, SUNY at Buffalo; Wantagh, New York
- Alan Douglas Guerri, A.B. 1972, Harvard University; Rumson, New Jersey
- Edward Verity Gundy, B.A. 1968, Dartmouth College; New York, New York
- James Willis Hare, A.B. 1968, Colgate University; M.S. 1972, Columbia University; Middletown, New York
- Marilyn Tucker Haupt, B.S. 1972, McGill University; Fulton, New York
- Murk-Hein Heinemann, B.A. 1972, Kenyon College; New York, New York
- Frederic William Held, B.A. 1972, Northwestern University; Decatur, Illinois
- James Hinde, A.B. 1972, Colgate University; Bronx, New York
- Christine LaRue Honig, B.A. 1972, Boston University; Darien, Connecticut
- Edward Watson Hook, III, B.S. 1972, Hobart College; Charlottesville, Virginia
- Robert Powell Huben, B.A. 1972, Rutgers University; Piscataway, New Jersey
- Kenneth Paul Kahaner, B.S. 1972, Queens College; Whitestone, New York
- Ellen Katz, B.A. 1970, Queens College; North Woodmere, New York
- Stuart George Katz, A.B. 1972, Amherst College; Bloomfield, Connecticut
- Lydia Kernitsky, A.B. 1972, Cornell University; Central Islip, New York
- Dennis Mark Kesden, B.A. 1972, Wesleyan University; North Massapequa, New York
- John Calhoun Killian, A.B. 1972, Cornell University; Amherst, Massachusetts
- Ronald Jay Koenig, B.S. 1972, Yale University; Merrick, New York
- Gerald Brian Kolski, A.B. 1964, Dartmouth College; Ph.D. 1969, Purdue University; Ithaca, New York
- Martin Lawrence Levinson, B.A. 1972, New York University; Union, New Jersey
- Kenneth Ian Light, B.S. 1972, Cornell University; Syosset, New York
- Ralph Linsker, B.A. 1967, Ph.D. 1972, Columbia University; South Orange, New Jersey
- James Edmund Lovelock, B.A. 1970, LeMoyne College; Flushing, New York
- Steven Kay Magid, B.A. 1972, Brandeis University; New York, New York
- Robert Marcus, B.S. 1972, Northwestern University; Westbury, New York
- Dennis Allan Mazal, A.B. 1972, Rutgers University; West Orange, New Jersey
- John Francis Mendes, B.A. 1972, Fordham University; Merrick, New York
- Steven Richard Meshnick, B.A. 1972, Columbia University; New Hyde Park, New York
- Eric Scott Miller, B.S. 1972, Union College; Bronx, New York
- Orrin Arlington Moore, B.S. 1972, University of Maryland; Georgetown, Guyana
- Richard Stanley Nenoff, B.S. 1972, Cornell University; Niagara Falls, New York
- Jeffrey Norman Nichols, B.A. 1968, Columbia University; Ithaca, New York
- Donald Stuart Novy, A.B. 1972, Lafayette College; Hillside, New Jersey
- Allan Peter Olivieri, A.B. 1972, Cornell University; Bronx, New York
- William S. Packard, B.A. 1972, Yale University; Brooklyn, New York
- Thaddeus Richard Paprocki, B.S. 1972, St. Peter's College; Bayonne, New Jersey
- David Matthew Pilgrim, B.A. 1972, Amherst College; Brooklyn, New York
- Stephen Jeffrey Philipshen, B.A. 1972, New York University; New Hyde Park, New York
- Anthony Provenzano, B.S.E.E. 1972, Cornell University; New Rochelle, New York

- Samuel Rapoport, B.S. 1972, Cornell University; Brooklyn, New York
- Austin Kevin Raymond, B.S. 1972, Fordham University; Oakdale, New York
- Barry Joel Richter, B.S. 1972, Cornell University; Albany, New York
- Benjamin Rodriguez, B.S. 1972, California State University at San Bernadino; San Bernadino, California
- Lynda Ellen Rosenfeld, B.S. 1972, Tufts University; West Hempstead, New York
- Margaret Leigh Schwartz, B.A. 1971, Princeton University; New Shrewsbury, New Jersey
- Andrew Paul Schuyler, B.A. 1972, Williams College; Hewlett Harbor, New York
- Samuel Michael Silver, A.B. 1972, Brandeis University; Essex, New Jersey
- Gary Robert Silverman, B.S. 1972, Stanford University; Miami, Florida
- Richard Alan Skolnik, B.A. 1972, C. W. Post College; Manhasset, New York
- Ruth Ronnie Solomon, B.A. 1971, Vassar College; Rego Park, New York
- Steven Seev Sommer, B.A. 1972, University of Pennsylvania; Havre de Grace, Maryland
- James Raymond Swanbeck, Jr., A.B. 1972, Cornell University; Aurora, New York
- Frank Charles Taliercio, B.S. 1972, Georgetown University; Palisades Park, New Jersey
- Robert Walter Thies, B.A. 1972, Hofstra University; Glendale, New York
- David Velez, B.S. 1971, Fordham University; New York, New York
- Judith Ann Waligunda, A.B. 1972, Cornell University; Scranton, Pennsylvania
- Gary Robert Weine, B.A. 1972, Queens College; Flushing, New York
- Gail Greenwood Weinmann, B.A. 1972, Barnard College; Washington, D.C.
- Irene Amy Weiss, B.S. 1972, Cornell University; New York, New York
- Nina L. Zasorin, A.B. 1972, Barnard College; New York, New York
- Steven Zimmerman, A.B. 1972, Cornell University; Hewlett, New York
- First Year**
- Howard Barry Baum, A.B. 1973, Dartmouth College; Passaic, New Jersey
- Penny Lynn Bisk, B.A. 1973, Douglass College; Hillside, New Jersey
- Emanuel Murray Bloom, A.B. 1973, Princeton University; Roslyn, New York
- Wayne Arthur Bottner, A.B. 1973, Lafayette College; Emerson, New Jersey
- Laura Jean Brandt, B.A. 1973, University of California; Indianapolis, Indiana
- Kenneth A. Brown, B.A. 1973, Rutgers University; Vineland, New Jersey
- Ralph Charles Budd, A.B. 1973, Cornell University; Middletown, New York
- Gerri Tobytha Byrd, B.A. 1973, University of Pennsylvania; Pittsburgh, Pennsylvania
- Ciro Joseph Carafa, B.A. 1973, College of the Holy Cross; Lodi, New Jersey
- Marcia Denise Carney, B.S. 1973, Wellesley College; Norfolk, Virginia
- Romalas Eugene Charlot, B.A. 1973, Wesleyan University; Los Angeles, California
- Jan Andree Clarke, B.A. 1973, Queens College; Jamaica, New York
- John Richard Combes, B.S. 1973, Manhattan College; Bronx, New York
- Ira Mitchell Dauber, B.S. 1973, Cornell University; Bayside, New York
- Vincent Paul deLuise, B.S.E. 1973, Princeton University; Garden City, New York
- John Tobey Devlin, B.A. 1973, Lehigh University; Ramsey, New Jersey
- Frank Lennox Douglas, B.S. 1966, Lehigh University; M.S. 1971, Ph.D. 1973, Cornell University; Rochester, New York
- Ellen Catherine Ebert, A.B. 1973, Princeton University; Wellesley Hills, Massachusetts
- Michelle E. Ehrlich, B.A. 1973, Brown University; Wyncote, Pennsylvania
- Leon Fay, B.A. 1964, Brooklyn College; Brooklyn, New York
- Joseph Anthony Fedrick, B.A. 1973, New York University; Bronx, New York
- Naomi Ruth Feldman, B.A. 1973, University of Pennsylvania; Encino, California
- Samuel A. Forman, B.A. 1973, University of Pennsylvania; Philadelphia, Pennsylvania
- Wayne Alan Gavryck, B.A. 1973, State University of New York at Plattsburgh; Albany, New York
- Barbara Rettke Geiger, B.A. 1968, Barnard College; M.A. 1971, Columbia University; Scarsdale, New York
- Mark H. Goldeier, B.A. 1973, University of Rochester; Flushing, New York
- Fred M. Gordin, B.S. 1973, University of Michigan; West Hyattsville, Maryland
- Kenneth Lawrence Gordon, B.S. 1970, Union College; M.A. 1972, Harvard University; New Rochelle, New York
- Kirk Douglas Gulden, B.S. 1973, Michigan State University; Mountainside, New Jersey
- Molly Josephine Hall, B.S. 1973, Yale University; Princeton, New Jersey
- Charlotte Ann Harris, B.S. 1973, Michigan State University; Flint, Michigan
- Neil Hartman, B.S. 1968, Cornell University; Ph.D. 1973, The Rockefeller University; New York, New York
- Sherry Lynn Horn, S.B. 1973, Massachusetts Institute of Technology; Great Neck, New York
- John Neal Hurley, B.A. 1972, Williams College; Armonk, New York
- David Tobias Isaacs, B.A. 1973, Rutgers University; South Orange, New Jersey
- Michael Ira Jacobs, B.A. 1973, New York University; Forest Hills, New York
- Jeffrey Martin Jacobson, A.B. 1973, Cornell University; Bronx, New York
- Ronald Johnson, B.A. 1973, Wesleyan University; El Paso, Texas
- Jane Wright Jones, B.A. 1970, Carnegie-Mellon University; New York, New York

- David Allen Kanarek, B.S. 1973, Columbia University; New York, New York
- Wendy Anne Keitel, B.A. 1973, Duke University; Sarasota, Florida
- Alan Edward Kilby, A.B. 1973, Cornell University; Ithaca, New York
- Sally Hehsook Kim, B.A. 1973, New York University; Upper Montclair, New Jersey
- Steven Brand Koenig, B.A. 1973, Dartmouth College; Ishpeming, Michigan
- Thomas Richard Kosten, B.S. 1973, Rensselaer Polytechnic Institute; Troy, New York
- Mark Gregory Kris, B.A. 1973, Fordham University; Kenmore, New York
- Michael Roy Kurman, B.S. 1973, Syracuse University; Brooklyn, New York
- Paul Francis Lachiewicz, B.S. 1973, Manhattan College; Woodhaven, New York
- Robert Michael Lembo, A.B. 1973, Swarthmore College; Hamden, Connecticut
- Peter Joseph Lesniewski, B.A. 1973, New York University; Staten Island, New York
- Theodore Chi-Mei Li, A.B. 1973, Columbia University; West Hartford, Connecticut
- Storme Lynn, B.A. 1972, New York University; West Hempstead, New York
- Patricia Ann Marchase, A.B. 1973, Cornell University; Van Etten, New York
- James Fred Markowitz, B.A. 1973, Williams College; Valley Stream, New York
- Donald Allan McClain, B.A. 1973, Haverford College; Fairfax, Virginia
- Patrick Vincent McMahon, B.S. 1973, Iona College; New York, New York
- John Paul Micha, B.S. 1973, State University of New York at Buffalo; Snyder, New York
- Walid Michelen, B.A. 1973, Lehman College; Bronx, New York
- George Andrew Miller, Jr., B.S. 1973, University of Illinois; Urbana, Illinois
- Marshall Craig Mintz, B.A. 1973, Duke University; Morristown, New Jersey
- Jan Muneyirci, B.A. 1973, Wesleyan University; Brooklyn, New York
- Jeffrey Lewis Nelson, B.A. 1973, Tufts University; New Hyde Park, New York
- William Reamer Newman, B.S. 1970, Cornell University; Houston, Texas
- Gary Steven Novick, B.A. 1973, Johns Hopkins University; Mount Vernon, New York
- Francis Richard Nullet, B.S. 1973, State University of New York at Albany; Flushing, New York
- Joan Helene Oremland, B.S. 1973, Cornell University; Verona, New Jersey
- Steven Ray Osa, B.A. 1973, University of Kansas; Shawnee Mission, Kansas
- Dennis Matthew Parker, B.A. 1973, Kenyon College; Fair Lawn, New Jersey
- David Mathew Pilgrim, B.A. 1972, Amherst College; Brooklyn, New York
- Alan David Proia, B.A. 1973, Johns Hopkins University; Silver Spring, Maryland
- Jeffrey Victor Ravetch, B.S. 1973, Yale University; Brooklyn, New York
- Raul Antonio Reyes, B.S. 1973, Columbia University; Bronx, New York
- Carl Milton Richie, B.S. 1972, City College of New York; New York, New York
- Ronald Paul Schwarz, B.A. 1973, Yale University; New Rochelle, New York
- David Hill Serfas, B.S. 1973, Muhlenberg College; Easton, Pennsylvania
- Saul Kenneth Sokolow, B.A. 1973, Queens College; Flushing, New York
- Charles Wallace Sorenson, Jr., B.S. 1973, University of Utah; Salt Lake City, Utah
- Ellen Ann Spielman, B.S. 1973, Massachusetts Institute of Technology; Yonkers, New York
- Charles Brecknock Stacy, Jr., A.B. 1972, Harvard University; Charleston, West Virginia
- Carol Lorraine Storey, B.S. 1973, Yale University; Los Angeles, California
- Lewis Carroll Strauss, A.B. 1973, Harvard University; Baltimore, Maryland
- Francesca Morosani Thompson, B.A. 1965, Smith College; M.S.W. 1968, Fordham University; New York, New York
- Patricia Anne Treadwell, B.A. 1973, Indiana University; Indianapolis, Indiana
- Jonathan David Victor, A.B. 1973, Harvard University; Bronx, New York
- Barry Marvin Weintraub, A.B. 1973, Brandeis University; Tappan, New York
- Norman S. Werdiger, B.S. 1973, State University of New York at Albany; Flushing, New York
- Mikel Ray Whiting, B.A. 1973, Brigham Young University; Springville, Utah
- Herbert Pfeil Wiedemann, B.S. 1973, Yale University; Milwaukee, Wisconsin
- Carol Williams Wilkinson, B.A. 1969, Radcliffe College; M.S. 1973, Columbia University; Ithaca, New York
- Howard Joseph Willens, A.B. 1973, Columbia University; Bayside, New York
- Mitchell M. Wolfson, B.A. 1973, Yeshiva University; Brooklyn, New York
- Suzanne M. Wright, A.B. 1972, Cornell University; Larchmont, New York
- Arthur Townsend Wyker, B.A. 1973, University of Virginia; Charlottesville, Virginia
- Greg Zorman, B.S. 1973, Oakland University; New York, New York

Cornell University

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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

The New York Hospital

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

Memorial Sloan-Kettering Cancer Center

- 11 Memorial Hospital
- 12 Sloan House
- 13 Winston House Sloan-Kettering Institute
- 14 Kettering Laboratory
- 15 Howard Laboratory
- 16 The Ewing Pavilion of Memorial Hospital
- 17 Rockefeller University

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College of Arts and Sciences

Department of Asian Studies

Graduate School of Business and Public Administration

Field of Education (Graduate)

College of Engineering

Engineering at Cornell

Graduate Study in Engineering and Applied Sciences

General Information*

Graduate School

Graduate School: Course Descriptions

School of Hotel Administration

New York State College of Human Ecology

New York State School of Industrial and Labor Relations

Law School

Medical College (New York City)

Graduate School of Medical Sciences
(New York City)

Cornell University—New York Hospital

School of Nursing (New York City)

Graduate School of Nutrition

Officer Education (ROTC)

Summer Session

New York State Veterinary College

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

Requests for the publications listed above should be addressed to

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Edmund Ezra Day Hall
Ithaca, New York 14850.

(The writer should include his zip code.)