

Cornell University
Announcements

Introducing Cornell



Academic Calendar, 1982-83

Residence halls open	Tuesday, August 24
Registration begins	Monday, August 30
Registration ends	Tuesday, August 31
Fall term instruction begins	Wednesday, September 1
Labor Day (University holiday)	Monday, September 6
New-Student Parents' Weekend begins	Friday, October 1
Fall recess begins	Saturday, October 9, 1:10 p.m.
Instruction resumes	Wednesday, October 13
Thanksgiving recess begins	Wednesday, November 24, 1:10 p.m.
Instruction resumes	Monday, November 29
Fall term instruction ends	Saturday, December 11, 1:10 p.m.
Study period begins	Sunday, December 12
Study period ends	Wednesday, December 15
Final examinations begin	Thursday, December 16
Final examinations end	Thursday, December 23
Residence halls open	Monday, January 17
Registration begins	Thursday, January 20
Registration ends	Friday, January 21
Spring term instruction begins	Monday, January 24
Spring recess begins	Saturday, March 26, 1:10 p.m.
Instruction resumes	Monday, April 4
Spring term instruction ends	Saturday, May 7, 1:10 p.m.
Study period begins	Sunday, May 8
Study period ends	Wednesday, May 11
Final examinations begin	Thursday, May 12
Final examinations end	Saturday, May 21
Senior Week begins	Sunday, May 22
Senior Week ends	Saturday, May 28
Commencement Day	Sunday, May 29
Three-week summer session begins	Wednesday, June 1
Eight-week summer session begins	Monday, June 13
Six-week summer session begins	Monday, June 27

The dates in this calendar are subject to change at any time by official action of Cornell University.

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

The courses and curricula described in this Announcement are subject to change at any time by official action of Cornell University.

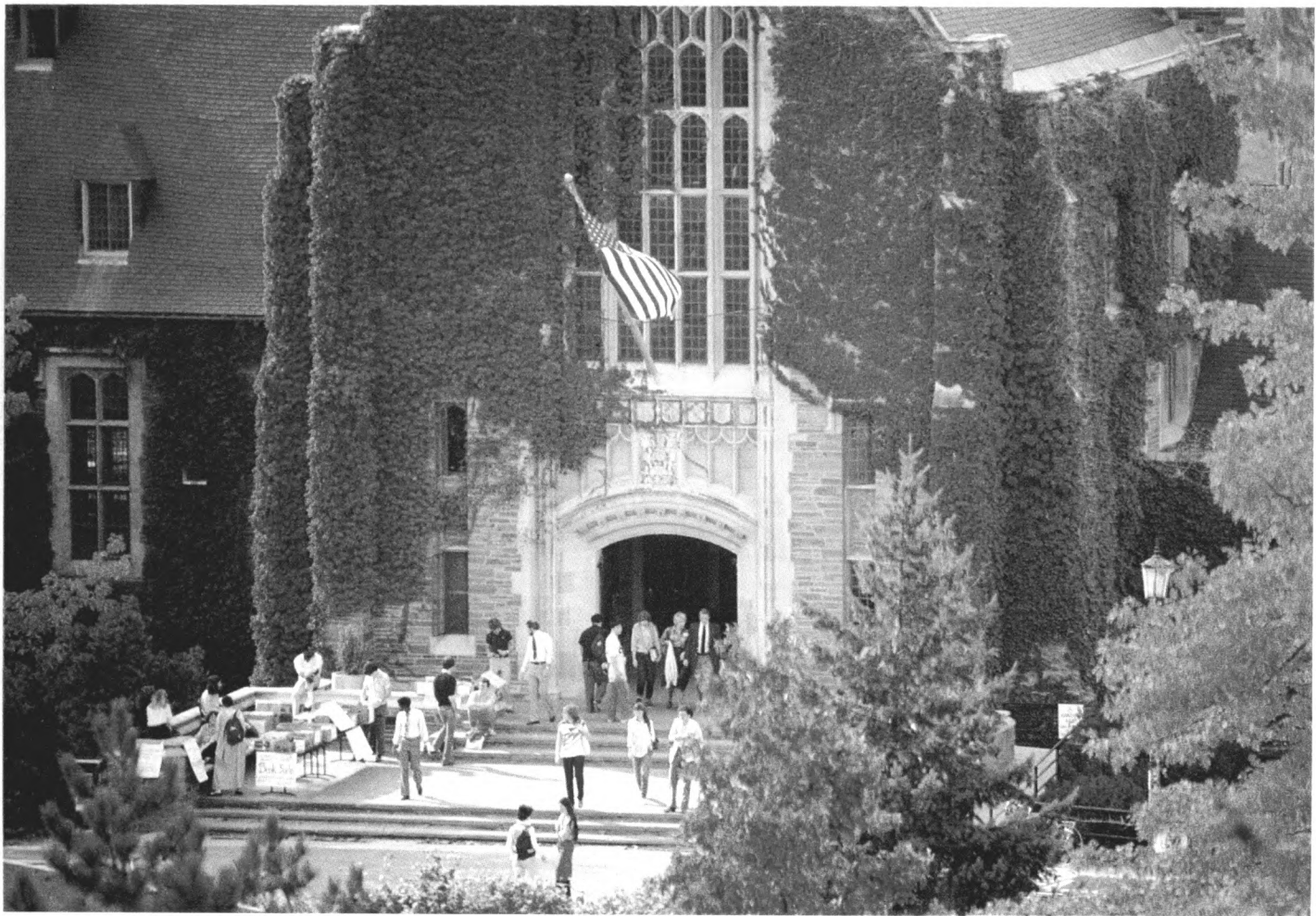
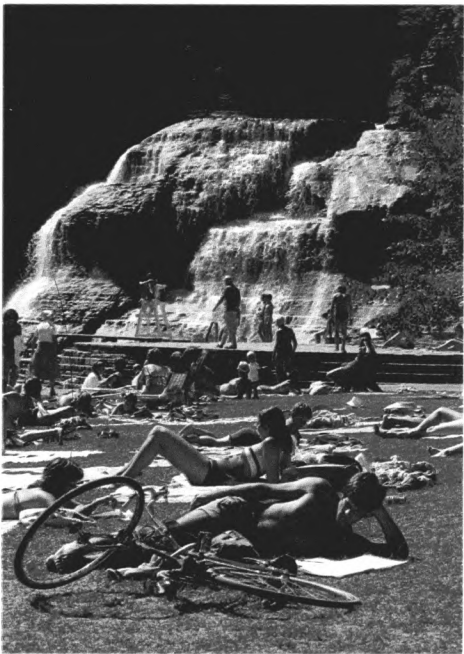
Cornell University Announcements (USPS 132-860)

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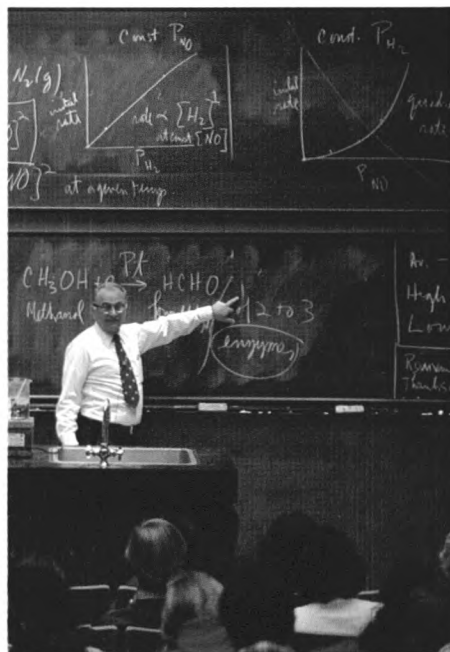
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Introducing Cornell

At the crest of a hill overlooking Cayuga Lake, dominating the rural landscape of Ithaca, New York, sits Cornell University. This majestic setting at the end of a deep glacial valley was once the farm of a man named Ezra Cornell. Now covering 740 acres, on which there are more than four hundred buildings, and populated by students and scholars from all over the world, Cornell University has its roots in the dreams and ideals of this self-made man. While serving in the New York State legislature in the mid-1860s, Ezra Cornell met Andrew Dickson White, who was to become the first president of Cornell University. The legacy of these two men created the rich tradition of ex-



cellence, freedom, and diversity in education that makes Cornell what it is today.

Andrew Dickson White and Ezra Cornell had radical ideas about what changes should be made in higher education. White, a diplomat, formally educated as a historian, had an idea about "a great university—with distinguished professors in every field, with libraries... halls... chapels... towers... and quadrangles" and dreamed of rearing these structures "on that queenly site above the finest of the New York lakes." Cornell had pulled himself from boyhood poverty to wealth, in and out of bankruptcy, and to a larger fortune, by inventing a wire-stringing technique for Samuel Morse's

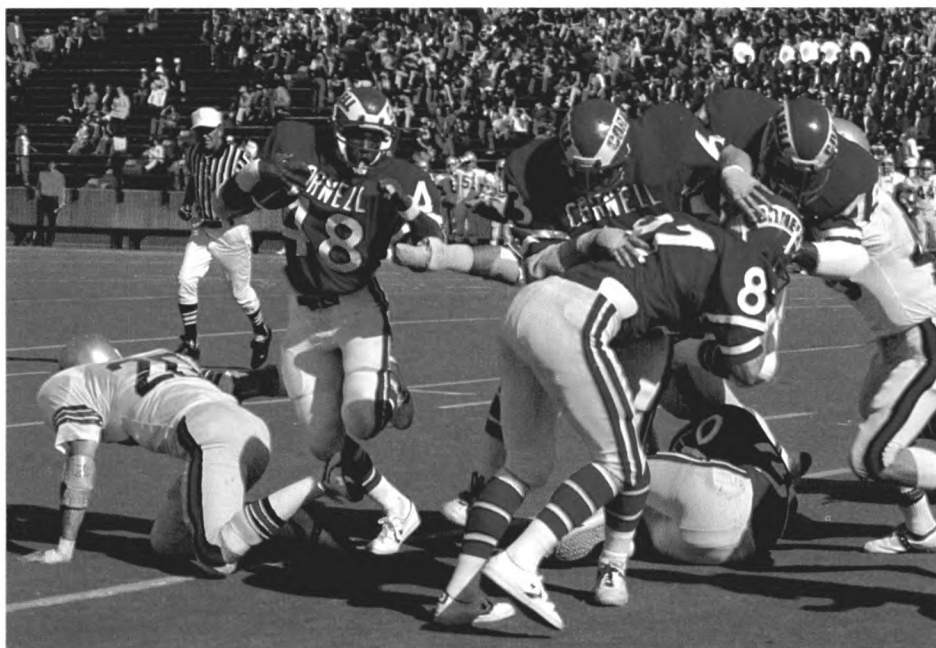


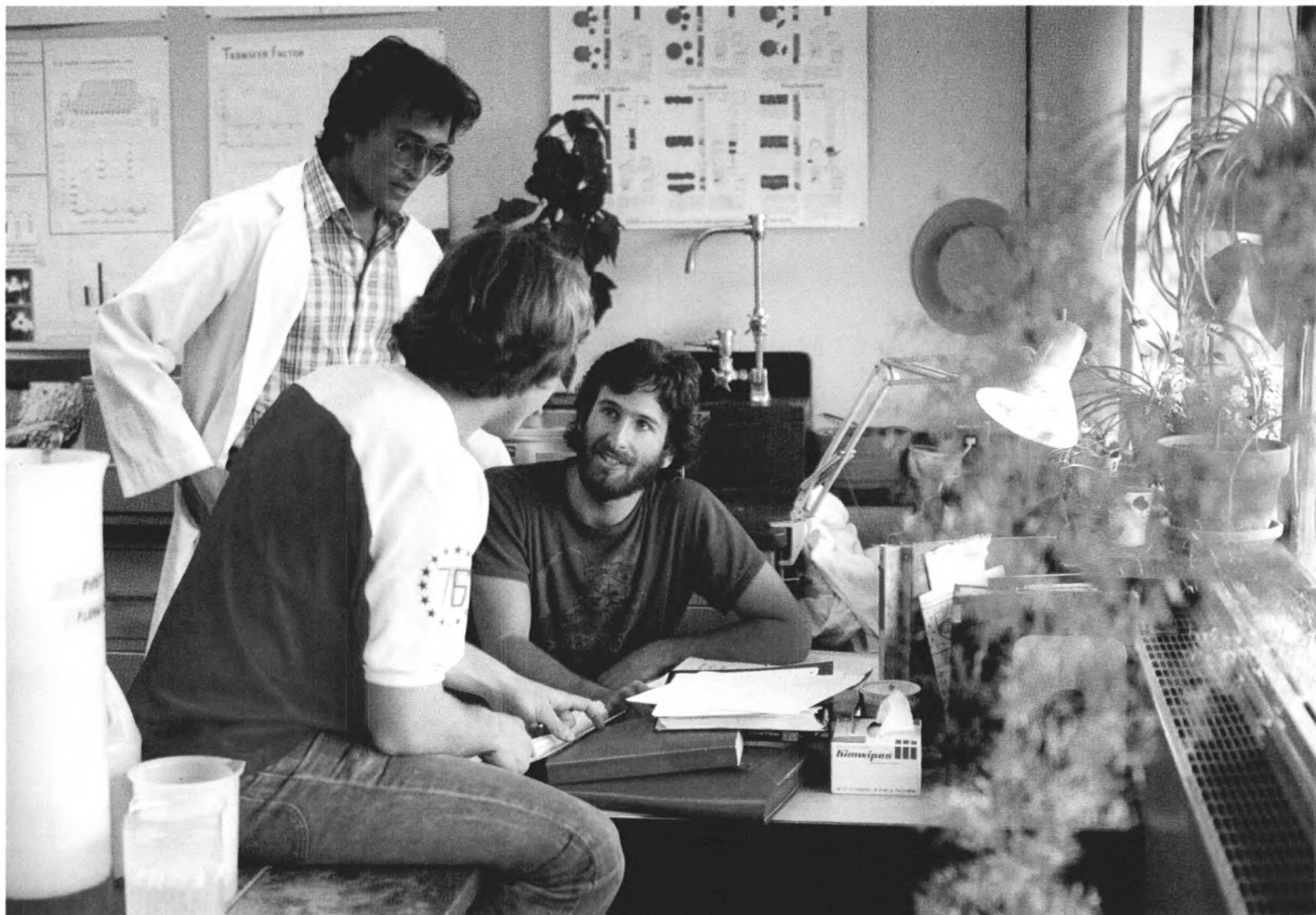
telegraph. As a result of these experiences the Ithaca senator wanted to "spend this large income to do the most good to those who are properly dependent on me, to the poor and to posterity." He sought to make a high-quality education available to all, an education that would meet the needs of everyday life.

While Ezra Cornell planned for education in practical areas of study, Andrew Dickson White sought to create an environment where students would be motivated by curiosity and the desire to learn, with teacher and student sharing the responsibility for education. Here was born a highly elective curriculum with choice beyond traditional disciplines, in coeducational classrooms and a nonsectarian setting where all points of view could be considered. This philosophy of education has outlasted Cornell's founders.

It was in 1868, at Andrew Dickson White's inauguration as the first president of the University, that Ezra Cornell said, "I trust we have laid the foundation of a University—an institution where any person can find instruction in any study." One needs only to stroll across the Arts Quad to recognize that this ideal has been realized. Students from all over the world, and from the largest of our cities and the smallest of our villages, wend their way to classrooms where more than thirty-five languages are taught, to laboratories where pioneering research on recombinant DNA is being done, and to reading rooms in one of the largest University library systems in the country.

The philosophy of the founders is still apparent, not just in the diversity of students or of the subjects they study, but in the distinct faces of the schools and colleges that make up the University: agriculture and life sciences; architecture, art, and planning; arts and sciences; business and public administration; engineering; hotel administration; human ecology; industrial and labor relations; law; medicine; and veterinary medicine. With the separate schools and colleges linked as a university, the scholarship of White and the practicality of Cornell are merged. Students of all disciplines attend classes throughout the University: future engineers, architects, labor negotiators, and poets find themselves together in the same classroom, challenging each other with differing perspectives. Faculty members may hold appointments in two colleges, and the people and resources of several schools combine in units such as the Division of Biological Sciences.





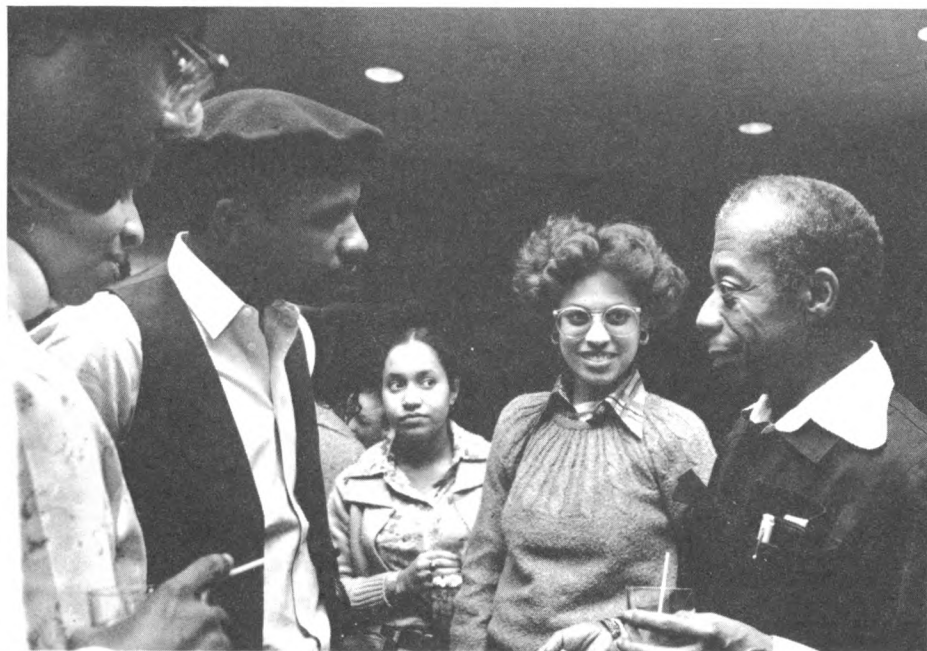
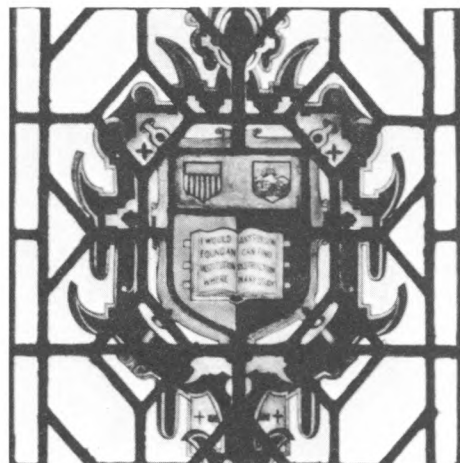
Cornell is a place of contrasts, where the world's fastest electron accelerator operates between the polo arena and the livestock judging pavilion. It is also a unique blend of the public and private sectors, a land-grant university and an Ivy League institution. Because Cornell is simultaneously public and private, it serves the public at large as well as individual scholars.

These contrasts and opportunities make Cornell an exceptional academic environment. With a commitment to elective education and student choice and over a hundred academic departments from which to choose, the University is a place to explore, a place where one can find the unique combination of disciplines that piques the curiosity, challenges the intellect, and encourages scholarly focus or career preparation.



Equal in importance to the commitment to freedom of choice is the commitment to undergraduate education at Cornell University. Renowned scholars, writers, and critics introduce students to literature, the arts, philosophy, and history, and the community of experts working at the frontiers of our knowledge in animal and plant breeding, submicron research, the socioeconomic cost of retirement, and diet's impact on disease teach undergraduate students who are just beginning to test their potentials and focus their interests.

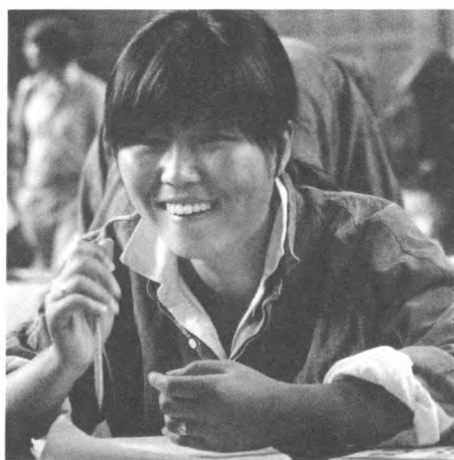
In the 1980s the legacy of the founders of Cornell University continues to flourish. Cornell, always a place for dreamers, welcomes new visionaries to this university, created to provide access to all useful knowledge.





In little more than a century Cornell has become a great cosmopolitan university, whose principal occupations are teaching, research, and service to humankind. Distinguished professors, recognized chiefly for their desire to know what is true and for their sympathetic understanding of people, work with students on research projects that literally span the cosmos, from the study of the galaxies almost inconceivably distant and almost immeasurably large, to the study of nuclear particles, almost inconceivably small: probing Jupiter and Mars, studying agricultural economics in Tompkins County and public policy issues in Washington, D.C., writing best-selling novels, playing period music on authentic instruments, designing hotels in West Germany, and undertaking archaeological digs in Turkey and Israel, deepening our understanding of what it means to be human and sharpening our sensitivity to what is outside ourselves. Students of all national and ethnic origins and social and cultural backgrounds find their way to this rural setting to explore with the faculty the world in which they live: men and women, from public and private secondary schools, with many or few material advantages, come to Cornell to profit from its abundant resources and to learn from each other.

Cornell encourages the spirit and practice of academic freedom. The educational aims and programs are based largely on student choice, a philosophy that has real meaning because of the existing variety and flexibility. The undergraduate programs permit a significant amount of sampling and exploring and encourage the selection of an area of interest and its pursuit in depth. This system does, of course, put great responsi-



The Ezra in me ... spends his hours fixing fences, building and cleaning out barns, admiring a neighbor's ability to make a log splitter out of salvaged parts, and trying to understand the mysteries hidden beneath the hood of an old Case tractor; the Andrew in me is concerned with books and ideas and the mysteries of value and meaning contained within a specific literary text.

James R. McConkey
Professor of English

bility on the student—to become acquainted with available offerings and facilities and to choose wisely according to personal needs and interests. While reading the descriptions of the schools and colleges, look carefully at the comprehensive list of courses on pages 19–35.

Undergraduate Programs

New York State College of Agriculture and Life Sciences

Students in the New York State College of Agriculture and Life Sciences participate in the college's clear and exciting mission: "To increase our understanding of nature and natural processes in the areas of agricultural sciences, biology, and the environment; to educate citizens for activity and leadership in these areas; and to translate new knowledge into action for the well-being and quality of life of the people, their agriculture, their resources, and their communities." The three-part

mission includes research, teaching, and extension. High priority is placed on excellence in classroom teaching and on updating the curriculum content to reflect rapidly expanding research. Most of the teaching faculty also have responsibilities in either research or public service; thus the content of courses includes the most current information available.

Programs of study are planned with considerable flexibility, allowing students to prepare for careers, graduate work, and the responsibilities of educated, concerned citizens. Over five hundred courses are offered for undergraduate students. Students in the college pursue a Bachelor of Science degree and select courses directed toward a major or specialization. Some students are interested in the study of a subject in the broadest sense. Others want to specialize in an academic discipline or pick a special career option.

When they apply for admission, students choose an initial program of study from nine general groupings of major fields. Thus from the beginning of their education at Cornell students have a faculty adviser in their field of interest. Students may select a specialization within a program area when applying for admission or at a later date.

The nine major program areas and related specializations are:

Agricultural and biological engineering—agricultural engineering, agricultural engineering technology, environmental technology

Animal sciences—includes animal production, animal breeding and genetics, animal nutrition, animal physiology

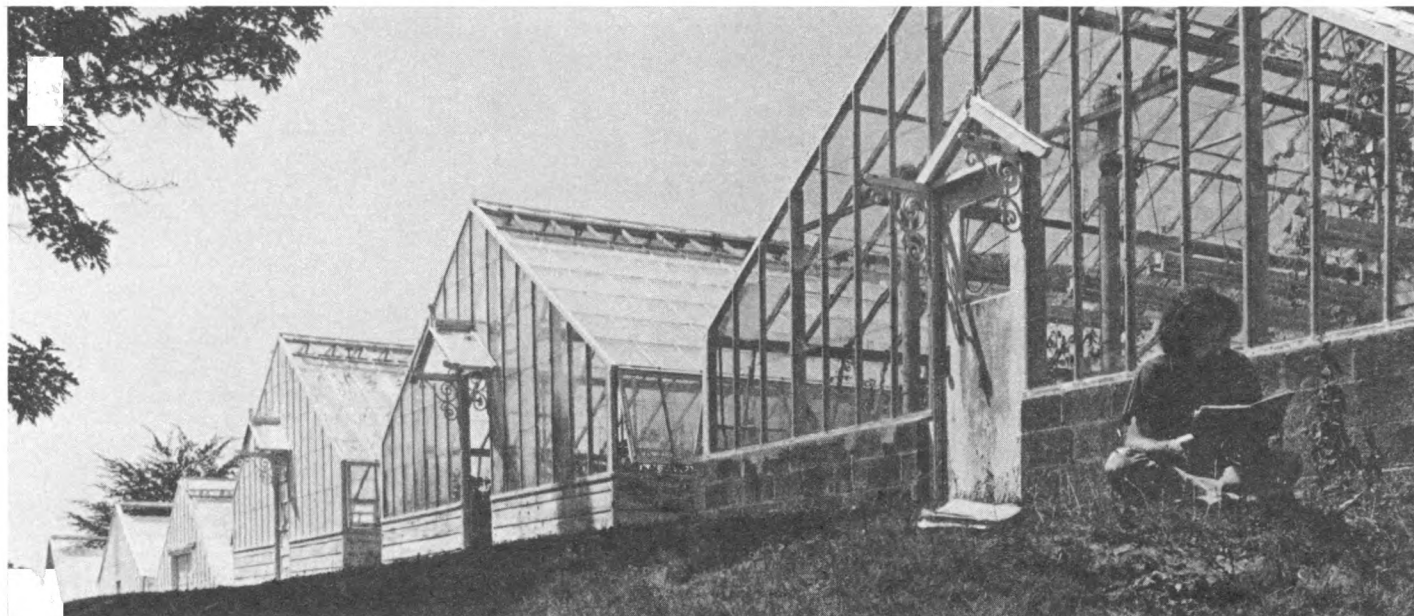
Applied economics and business management—agricultural economics, business management and marketing, farm business management and finance, food industry management, resource economics, public affairs management

Behavioral and social sciences—agricultural education, communication arts, education, rural sociology

Biological sciences—animal physiology and anatomy; biochemistry; botany; cell biology; ecology, systematics, and evolution; genetics and development; general

Table 1. Approximate Enrollment

Agriculture and life sciences	2,980
Architecture, art, and planning	420
Arts and sciences	3,770
Engineering	2,390
Hotel administration	650
Human ecology	1,140
Industrial and labor relations	630



biology; microbiology; neurobiology and behavior

Environmental studies—atmospheric science, entomology, landscape architecture, natural resources, soil science

Food science—includes science of food processing, product development, food analysis

Plant sciences—field crops, floriculture and ornamental horticulture, general plant science, plant breeding, plant pathology, plant protection, pomology, vegetable crops

Special programs—cooperative extension, general studies in agriculture, international agriculture, statistics and biometry

Each of these majors has its own course guidelines. In addition, all students must complete distribution requirements in a variety of subject areas, including physical sciences (mathematics included), biological sciences, social sciences and humanities, and written and oral expression. By selecting introductory and general courses in the physical, biological, and social sciences and applied courses in one or more areas of specialization, students may prepare for employment related to their training and interests. By selecting advanced courses in principles and theory as well as introductory physical, biological, and social sciences, some students may also prepare for graduate study or research.

Students in the College of Agriculture and Life Sciences are from an academically select and diverse group. Most

come from New York State, but about 20 percent come from other parts of the United States and the world. About half the undergraduates are women, and nearly 25 percent are transfer students who have attended agricultural and technical colleges, community colleges, or other academic institutions.

Students in the college have access to a faculty ranked first among distinguished faculties in the area of agriculture and natural resources in several recent national surveys. In addition, the college has extensive facilities on the campus in Ithaca as well as experimental farms and field stations across the state. The major buildings are clustered around the Ag Quad, anchored by Mann Library, which houses the second largest agricultural collection in the world. In addition to its classrooms and teaching laboratories, the college has fourteen thousand acres for research and teaching, including its own greenhouses, research farms, forest, fishery, dairy plant, and marine laboratory. Computer facilities provide on-line communication with large data bases in many fields and access to worldwide computer networks. Microcomputers are also available in the academic departments.

There are many unique features of the curriculum. Credit for internships, work experience, and cooperative arrangements with industry are available in some fields to complement that which is learned in the classroom and laboratory. Students may also participate in one of the college's study-abroad programs, in cooperation with universities in Great Britain, Mexico, Ireland, and Sweden, or

travel independently to study in another country while continuing progress toward a degree. Also, many students participate in research projects. These experiences may occur in the laboratory, greenhouse, barn, library, or computer room. Some students participate in research for course credit or as a part-time job; others volunteer their time to get hands-on experience with research and experimentation techniques and theories used in modern agriculture and industry.

There are many collegewide and field-specific student organizations germane to the study of agriculture and life sciences. Students join together in clubs with such focuses as dairy science, business opportunities, and pomology, to name a few.

Career opportunities for graduates of the college are as diverse as the courses of study. These include careers in agriculture, business, communications, education, and industry. Many graduates are prepared to contribute to the solutions of major problems facing the world, including hunger, environmental quality, energy conservation, and economic development. Since the agriculture and food industry is New York State's largest and most important industry, graduates with specializations in areas such as food science, agricultural engineering, and applied economics find abundant job opportunities.

College of Architecture, Art, and Planning

The College of Architecture, Art, and Planning is convinced that breadth is an essential element of undergraduate education, and the professional concentration of courses within the college, balanced by the wider view gained from study in other units at Cornell, establishes a broad understanding of human values and social problems as well as the theoretical and technical base of professional competence. The professional courses in the three departments explore a wide range of issues and scales of involvement and provide the opportunity to develop a particular emphasis.

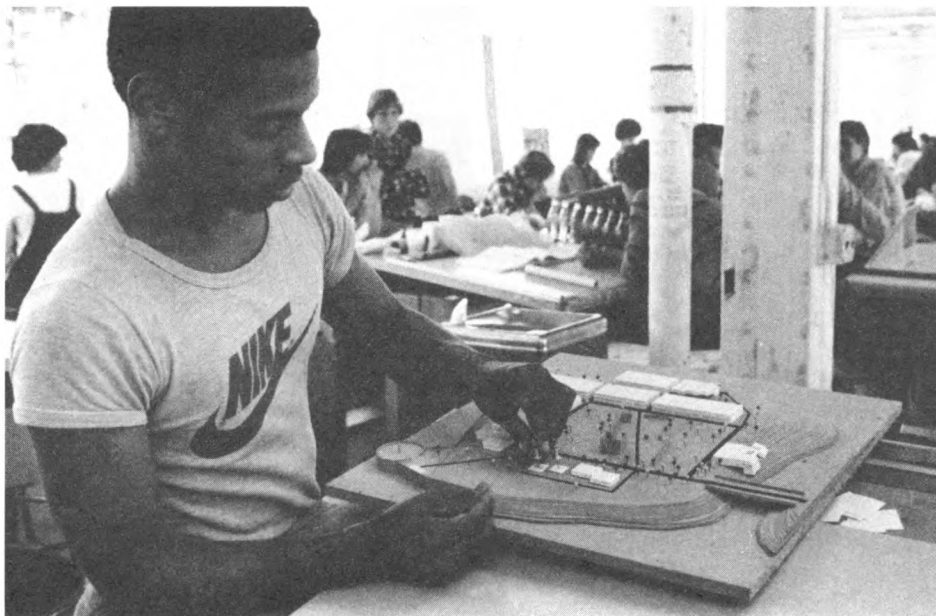
Department of Architecture. Architects are continually assuming a wider range of responsibilities for problems of the built environment and for improving the habitats of people. The concerns of regional ecology, the application of the social sciences, the evolution of design philosophies and methodologies, and the emergence of new roles for the designer all present special challenges to architectural study and practice.

The primary course of study in the department leads to the Bachelor of Architecture degree. This first professional degree program normally requires five years and is designed particularly for people who, before they applied, had established their interest and motivation to enter the field.

After the first two years of the Bachelor of Architecture program, a student may petition to depart from the professional program for the third and fourth years to develop a major concentration in history of architecture and urban development. This major concentration leads to the nonprofessional four-year Bachelor of Science degree.

After completing the first four years of requirements for the Bachelor of Architecture degree, a student may choose to receive the nonprofessional degree of Bachelor of Fine Arts in architecture.

Through special planning qualified students in the professional five-year program in architecture may be able to complete the requirements for the first year of the department's Master of Architecture program during the final year of study for the B.Arch. degree. Another program for qualified fourth- and fifth-year students is the Washington Program, a term of study that provides a period of intensive exposure to the characteristics of urban development within the framework of a design studio.



Department of Fine Arts. The undergraduate curriculum in art, leading to the Bachelor of Fine Arts degree, provides an opportunity for students to combine a general liberal education with the studio concentration required for a professional degree. During the first year all students follow a common course of study that provides a broad introduction to the arts and a basis for intensive studio experience in painting, sculpture, photography, and graphic arts during the last three years. Studio courses intensify students' visual perception of the formal and expressive means of art, encouraging insight into a variety of technical processes. These courses occupy about half the student's time during the four years. The remainder of time is devoted to a diversified program of academic subjects with an extensive provision for electives.

All faculty members of the Department of Art are practicing artists whose work represents a broad range of expression. Perhaps the most notable of recent faculty works is the Steuben glass bowl designed by Zevi Blum, associate professor of art, and presented by the United States to the Prince and Princess of Wales in honor of their wedding. Faculty work is often displayed in Cornell's Herbert F. Johnson Museum of Art, adjacent to the fine art studios and not far from the sculpture foundry.

A dual-degree program with the College of Arts and Sciences is available for students who want to pursue both a Bachelor of Arts degree and a Bachelor of Fine Arts degree.

Department of City and Regional Planning. The Program in Urban and Regional Studies is an upper-division, transfer program in the Department of City and Regional Planning for students who want to transfer from colleges outside Cornell, as well as from other programs and majors at Cornell, for their third and fourth year of study.

This program, leading to the Bachelor of Science degree in urban and regional studies, offers students coming from a two-year course of study in social science, design, humanities, or engineering an opportunity to direct their education toward a scholarly understanding of urban and regional issues and possible solutions to related problems. The curriculum acquaints students with the various social, political, economic, and environmental forces that confront cities and regions and contribute to their growth and decline. Because the complex and evolving process of urbanization has a profound impact on modern society, students study the psychological, cultural, and physical aspects of contemporary life. While the curriculum draws on strengths in the department, it is supplemented by course work in related areas in other departments at Cornell, including economics, sociology, government, and history.

College of Arts and Sciences

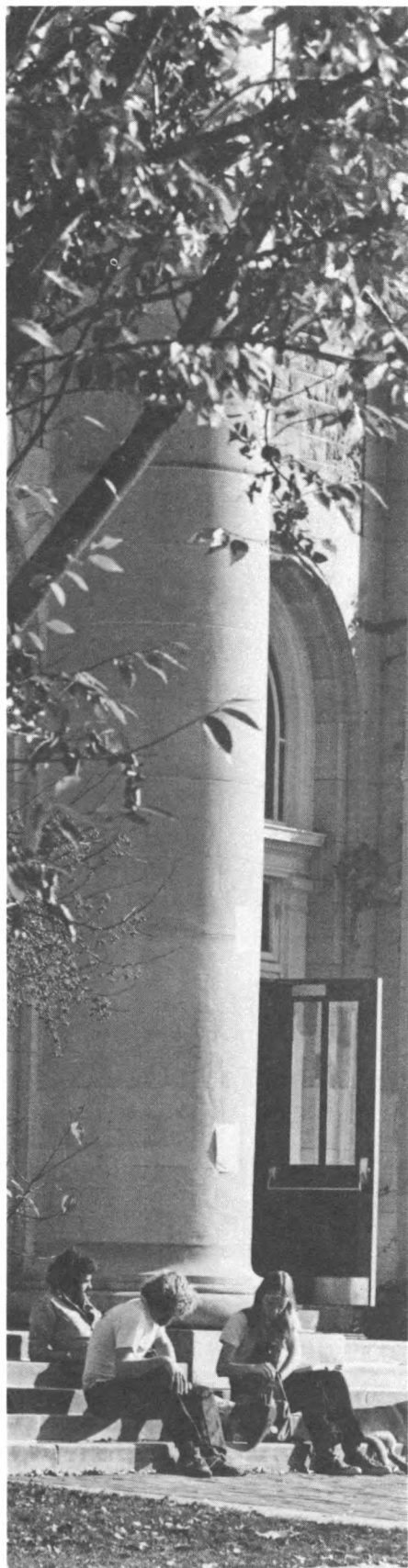
The College of Arts and Sciences is the home of those departments that teach and study the subjects known collectively as the liberal arts. The aim of a liberal arts education, in the most general terms, is to give students the opportunity to develop an understanding of themselves and of the world about them by studying the natural and physical sciences, social sciences, and humanities. In many ways this training provides the best possible foundation for future achievement. The world is changing at an ever-increasing rate, and the body of knowledge needed to keep pace is expanding rapidly. In these circumstances it is essential to develop the powers of creative, analytic, and critical thinking and skill in communicating one's thoughts. There is no surer way to do this than by gaining familiarity with the different modes of thought that are involved in the study of the physical world, human behavior, and historical process. By becoming acquainted with the main achievements of human intellect and imagination and by writing and speaking frequently about these matters, students gain the skills necessary for excellence in any career or profession. Many graduates of the College of Arts and Sciences engage in further academic or professional study, but just as many begin their careers immediately after completing the Bachelor of Arts degree.

The variety and richness of the curriculum in the College of Arts and Sciences is extraordinary. Distinguished faculty members teach courses ranging from music and comparative literature to Asian studies and astrophysics. The following list includes the major departments and the programs of interdisciplinary studies:

Departments Offering Formal Majors

- Africana studies
- anthropology
- Asian studies
- biological sciences
- chemistry
- comparative literature
- computer science
- economics
- English
- geological sciences
- German
- government
- history
- history of art
- mathematics
- modern languages and linguistics
- music





Near Eastern studies
philosophy
physics
psychology
Romance studies (French, Italian, and Spanish literature)
Russian
sociology
theatre arts

Interdepartmental Majors

American studies
archaeology
biology and society

Concentrations (Informal Minors)

astronomy
law and society

Interdisciplinary Programs

international studies
Jewish studies
Latin American studies
medieval studies
religious studies
science, technology, and society
social psychology
South Asia
Southeast Asia
urban studies
women's studies

Students whose interests cannot be accommodated by an established major may devise, with the help of their advisers, an independent major.

While there is a great deal of flexibility in selecting courses, and while no specific courses are required, college requirements ensure that each student takes advantage of the variety of academic offerings available at Cornell. Distribution requirements in the humanities, social sciences or history, natural or physical sciences, and mathematics; a foreign language requirement; and a freshman writing program constitute the framework within which students design their individual programs of study.

By the beginning of the junior year students choose a major area of concentration and work intensively in that area for about half their time in the final two years.

Students may complement their on-campus studies by participating in an archaeological dig off the Aegean, by attending a foreign university, or by addressing questions of public policy through the Cornell-in-Washington program. Students may use these courses to fulfill college distribution and major requirements.

Among the eighteen hundred courses regularly offered (see pages 22–29) are

those that improve and develop skills in writing English prose. Through the Freshman Seminar Program first-year students choose one course each semester from more than a hundred offerings in the humanities and social sciences. In these courses students may pursue a current interest or experiment with a subject matter altogether new to them; experience a small-class setting where individual attention and informal discussions are essential; and develop their analytical skills among peers from every college in the University.

Foreign language study complements other forms of communication by creating an appreciation for the complex structures of language and fostering cross-cultural understanding. The Department of Modern Languages and Linguistics offers instruction in about forty languages, including an unusually comprehensive offering in the languages of the Near and Far East, in addition to intensive instruction in the Full-Year Asian Language Concentration (FALCON) in Indonesian, Chinese, and Japanese. The college requires proficiency in one language or basic competence in two.

The College of Arts and Sciences recognizes the great diversity of its students and the many different ways of learning by providing a number of academic options over and above the traditional department majors and interdisciplinary majors established by the faculty. Dual-degree programs with the College of Engineering or with the Department of Art in the College of Architecture, Art, and Planning are available for students who want both a liberal arts education and professional training. The Independent Major and College Scholar programs afford opportunities for students to design a program of study tailored to interests that do not easily fit into one of the established majors. The Undergraduate Research Program enables students to undertake basic research as participants in faculty projects. This program fosters apprentice-teacher relationships with professors that help students gain awareness of their own research interests and abilities, self-discipline, and new insights into a subject matter. Students enjoy firsthand experience in scholarly research and earn credit for their work.

To allow students to develop a course of study, well adapted to their own interests and goals, within the general pattern established by the faculty, is the guiding philosophy of the College of Arts and Sciences.

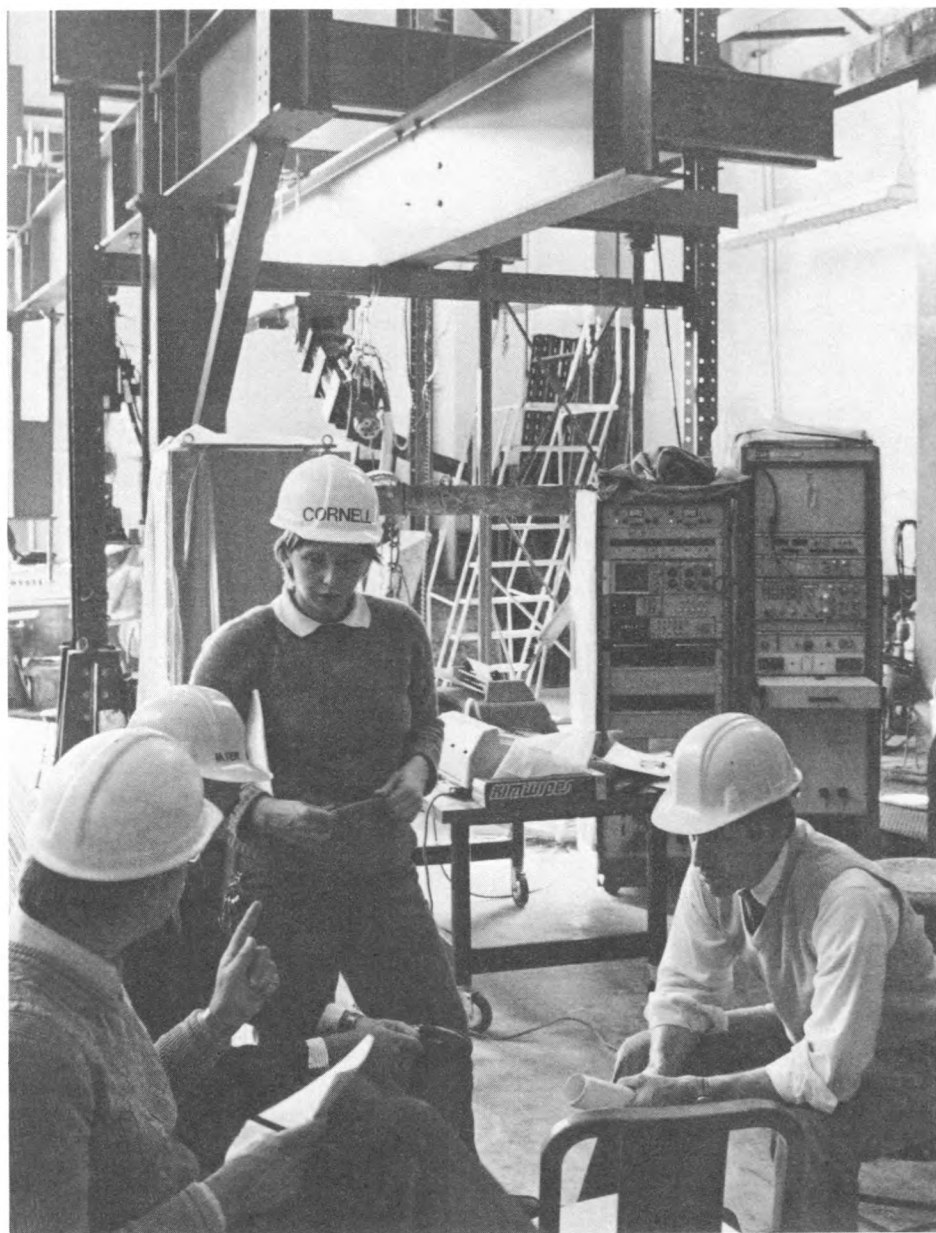
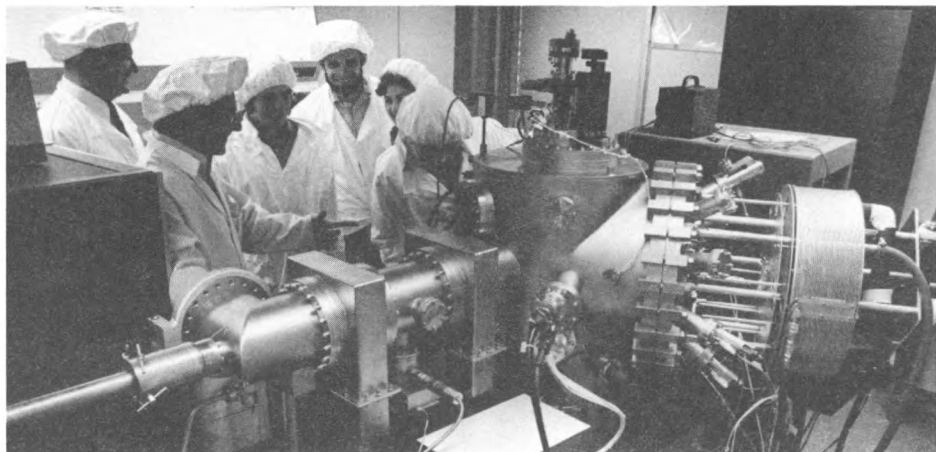
College of Engineering

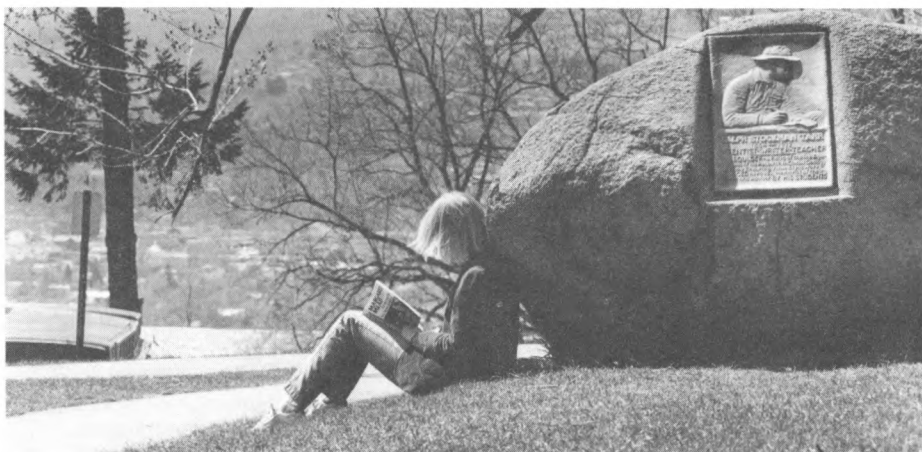
At Cornell engineering is seen as an organized way of thinking, as well as a body of knowledge. An engineer is a true professional, educated broadly and in an area of expertise.

This attitude is reflected in the education of Cornell engineers. The program emphasizes the development of an effective, comprehensive approach to problem solving. It provides opportunities to apply state-of-the-art technology. And it encompasses study in the humanities and the social sciences, regarded as integral components of all higher education. This type of program is essential today for the education of engineering professionals, who encounter rapidly changing conditions—social and economic, as well as technical—in the course of their practice. They must be prepared to deal with all facets of technological enterprise in a comprehensive and responsible way. At Cornell's College of Engineering the excellent faculty and facilities ensure a strong, vital scientific and technical curriculum. The University environment, which supports all aspects of individual development, is a major strength of the total program.

Engineering students begin their studies with general course work that provides a sound background in the sciences, mathematics, the engineering sciences, the social sciences, and the humanities. Students then choose a specialty, usually at the beginning of their junior year, and usually from one of the following ten fields: agricultural engineering (a program begun in the College of Agriculture and Life Sciences); applied and engineering physics; chemical engineering; civil and environmental engineering; computer science; electrical engineering; geological sciences; materials science and engineering; mechanical and aerospace engineering; and operations research and industrial engineering. Built into the engineering curriculum is a large elective component. Many of the courses for a major are selected from the large number available in every field of engineering, and in addition, students take courses in psychology, sociology, business, political science, literature, or anything else they want to study.

In fact, many engineering students say they choose to come to Cornell because of the flexibility of the curriculum, which provides opportunities for developing broad interests or for concentrating on specific ones. For example, students can declare a major field as early as the end of the freshman year or delay a decision





until the end of the sophomore year. Through their selection of elective courses, they can work out programs of study adapted to their particular interests and abilities. It is even possible to design an individual undergraduate major through the College Program: two engineering disciplines can be combined, or study in engineering can be augmented with course work in such areas as the physical, biological, or social sciences; architecture; city and regional planning; business; or ecology and conservation.

The quality of education in all areas is enhanced by the accessibility of the faculty members. Most of them teach undergraduate courses, and many serve as advisers to undergraduates as well as to graduate students. Undergraduates have ready access to excellent library and computer facilities throughout the campus and opportunities to benefit directly and indirectly from other Cornell facilities, including a synchrotron, a national laboratory for research in submicron structures, and a computer-graphics facility for student use.

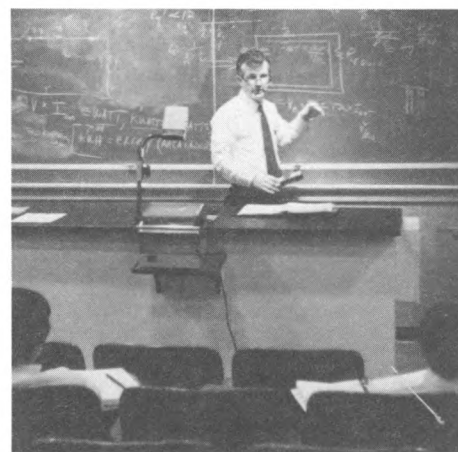
Students who want to prepare for professional engineering practice can continue their study in an integrated fifth-year program leading to the Master of Engineering (M.Eng.) degree in one of eleven specialty fields. Those who want to work toward a career in technology-based business can take advantage of a program jointly sponsored by the College of Engineering and the Graduate School of Business and Public Administration: a coordinated curriculum that leads to the Bachelor of Science degree in engineering and master's degrees in both business administration (the Master of Business Administration) and engineering practice (the M.Eng.). Another opportunity for undergraduates is the Engineer-

ing Cooperative Program, which provides for periods of paid employment in industry without delaying graduation. Students in this program gain valuable work experience with one of sixty participating companies. Still another option is a dual-degree program, in which superior students may earn baccalaureate degrees from both the College of Engineering and the College of Arts and Sciences.

The College of Engineering is interested in students who can both benefit from and contribute to the life of the University. Its students are notable for their variety. They do not fit any stereotype of overspecialization. They participate in the chorus and in instrumental music groups. Their artwork shows up in displays on campus. A magazine, the *Cornell Engineer*, is published by students. Engineers participate in almost all intercollegiate and intramural sports. In short, they are an intrinsic part of University life.

Variety among the students is apparent in other ways, too. The number of women in the college is increasing rapidly; women now constitute about a third of the entering class. A sizable number of transfer students adds another dimension to the diversity of the student body.

The elective component and the breadth of course offerings allow students to prepare for careers in a number of professions and occupations. After graduation many embark on careers in engineering, while others find that their undergraduate training has provided excellent preparation for graduate or professional study in engineering or in other fields such as the sciences, law, or medicine.



Hotel Administration

The School of Hotel Administration offers undergraduate and graduate training in numerous disciplines required for modern management, including accounting, finance, marketing, administration, and human resources development. The school's graduates hold positions in a variety of industries but are especially well represented in the management of hospitality-related enterprises, including the lodging, food-service, and travel industries.

Students are encouraged to pursue a broad range of courses as preparation for assuming their places in the business community. Included in the basic curriculum are courses in financial management, science and technology, food and beverage management, and physical plant management. Students also have access to courses offered by all the other colleges of the University and are encouraged, through elective courses, to tap Cornell's tremendous educational resources.

Because hospitality management cannot be taught wholly in the classroom, lectures and laboratories are supplemented with work experience on campus and in the industry. Students receive firsthand training through the operation of Statler Inn, a practice hotel on the University campus containing fifty-two guest rooms, banquet facilities, and a variety of restaurants. An optional Management Intern Program provides additional managerial experience in Statler Inn as well as in selected organizations away from the campus.

The Cornell Society of Hotelmen is one of the most active alumni organizations in existence and is a strong network influencing the future of the hospitality industry throughout the world.

New York State College of Human Ecology

The New York State College of Human Ecology is a place to discover solutions to contemporary human problems. While the issues being investigated change as new discoveries are made and new problems emerge, the concern for human development, health, and environment and for the economic vitality of our homes, businesses, and communities is central at all times.

Nowhere else in the nation does there exist the same combination of distinguished faculty, programs, and facilities, including libraries, studios, computers, and laboratories. The college seeks to educate students for leadership in business, education, and government, where, with their expertise, creative, analytical, and critical thinking, and communication skills, they can make positive changes.

Recognizing that human concerns cannot be divided into narrow subject matter disciplines, human ecology stresses a unique interdisciplinary blend of course work, research, and practical study that permits students to understand and develop expertise in critical areas of current concern. Human ecology students may choose areas of concentration with strong emphasis in the sciences, including nutrition, textiles, and biology and society. Other options stress the social sciences: social work; adult education; child, adolescent, or adult development; family studies; social planning; public policy; apparel and textile management; consumer economics; human-environmental relations; housing; and home economics education. The college offers studio options in interior design and apparel design. Students may also develop an individual curriculum when their interests and needs do not fit within an existing major.

Just a few of the issues that challenge human ecologists are the relationship between human nutrition and cancer or health and disease; the long-range consequences of high unemployment among youth; and how government legislation, educational organizations, cultural traditions, and hiring practices enhance or weaken family stability. Others are concerned about the evaluation and management of technological change and hazards; the effect of preschool programs on the development of children during adolescence and into adulthood; the essential characteristics of good housing for the elderly; and the effect of color, texture, and spatial arrangements



on perception of classrooms, offices, and hospitals. In the College of Human Ecology outstanding faculty members and students address issues that concern people in their homes, at work, and in their physical and community environments.

Human ecology offers a variety of options that are not available in either highly professional or liberal arts schools. Courses are drawn from the best offerings of the University to ensure students a fine general education. Those who want to prepare for business, law, or medical school or for other graduate programs will find strong course work and advising available. Students planning to work immediately upon graduation often choose professionally focused majors, such as design, social work, dietetics, and adult or home economics education.

Honors programs involving one-to-one work with a faculty member and culminating in independent research and a thesis are available. Another great strength of the college is the integration of experiential with theoretical learning available through field study. This can involve teaching, research, or participant observation in community or business settings in the Ithaca area, Albany, Washington, D.C., New York City, and many other locations. Recognizing that its graduates will live and work in an increasingly interdependent world, the college encourages

students to study abroad. Human ecology has formal exchange programs with universities in Puerto Rico, Israel, and Jamaica.

The College of Human Ecology offers career counseling and job placement assistance to supplement the services available through the University's Career Center. More than half the members of each graduating class go directly from graduation into professional employment. Another 26 percent go on for further education.

Human ecology graduates find employment in business, education, government, and health and human service professions. Graduates interested in furthering communication between people and various sectors of society about products or services find employment as consumer and public affairs professionals; personnel, marketing, and sales representatives; and advertising, design, and health specialists. Others interested in helping people to learn or solve problems find employment as counselors, human service professionals, dietitians, public health specialists, social workers, nutrition educators, career counselors, and cooperative extension agents. Still others work in laboratories or research institutes, investigating human problems of health and nutrition, the environment, the family, and society in occupations such as biochemist, econo-

mist, research analyst, quality control technician, statistician, toxicologist, textile chemist, and product development specialist. After further graduate study some enter the professions of law, medicine, pharmacology, psychiatry, college teaching, and religious service.

Division of Nutritional Sciences

Nutritional sciences deal with the intricate relationship of food, nutrition, and health. This subject is not a simple, self-contained one that fits neatly into any one of the schools or colleges at Cornell. The Division of Nutritional Sciences was created to bring together specialists from many disciplines in the biological and social sciences who share an interest in nutritional problems, whether they involve the molecular structure of nutrients or the specter of world hunger.

The division is affiliated with both the College of Human Ecology and the College of Agriculture and Life Sciences and also includes faculty members jointly appointed with the College of Veterinary Medicine and with other institutions in New York City and in England. Their work covers undergraduate and graduate teaching, nutrition research, and public education, including cooperative extension programs in food and nutrition.

The Bachelor of Science degree program offers five major emphases, all built on a thorough foundation of courses in the basic sciences, professional nutrition, humanities, and communications. This core curriculum ensures that students are well trained to pursue any aspect of advanced study in nutrition. By their junior year students enjoy more-specialized courses suggested for the major they choose: clinical nutrition, community nutrition, consumer food and nutrition, foods, or nutritional biochemistry. Through the division's dietetics program students in any of these five emphases can meet the academic requirements for membership or registration in the American Dietetic Association.

The program of study in nutrition stresses two closely related goals: increasing our knowledge of nutrition and health and applying what we know to people's everyday problems. Students who major in nutritional sciences learn how to interpret basic research from the laboratory and from the social sciences. They also come to understand the practical implications of nutrition; the division encourages supervised field study and helps students find and evaluate educational experiences that provide a service

to the community. Other students have a chance to test their ideas by conducting original research projects as independent study or through the honors program.

Most undergraduates who major in nutritional sciences enroll in the College of Human Ecology. Students in the Colleges of Agriculture and Life Sciences and Arts and Sciences can pursue a nutrition concentration in the Division of Biological Sciences.

With a B.S. degree in nutrition, students are qualified for a variety of entry-level positions in laboratory research, consumer affairs, nutrition education, and health services. All graduates are prepared for advanced study in nutritional science, biomedical fields, and public policy.

New York State School of Industrial and Labor Relations

The New York State School of Industrial and Labor Relations offers professional study for both undergraduate and graduate students. The curriculum prepares men and women for careers in personnel and union-management relations with business and industry, labor organizations, and state and federal government agencies. Preparation for graduate study in law, education, business, psychology, sociology, economics, history, political science, international affairs, and other fields concerned with contemporary social, economic, urban, and political problems is also available.

To develop an understanding of modern industrial society, the curriculum provides a broad base in the social sciences and a core of course work in industrial and labor relations, complemented by general electives in the humanities. The freshman and sophomore years consist mainly of required courses offered by the School of Industrial and Labor Relations and the College of Arts and Sciences. Upperclass students are free to pursue elective studies, divided between courses offered by the ILR school and other divisions of the University.

Undergraduates who work to prepare for graduate work in one of the basic social sciences may use out-of-school electives to establish an informal minor in business, communications, economics, government, history, psychology, or sociology. Advanced industrial and labor relations electives are chosen from the offerings of the following departments in the school: collective bargaining, labor law and labor history, economics and social statistics, international and comparative



labor relations, labor economics, organizational behavior, personnel, and human resource management.

Internships of varying lengths are available through the school during the academic year and in the summer, enabling students to confirm their interests in collective bargaining, legislative and policy formation, arbitration, education and training, union administration, personnel management, or research.

In recent years about half of the school's graduating class elected to continue their study in graduate or professional schools, with the largest group entering law school and the rest divided between business school, continuing study in industrial and labor relations programs, and fields such as psychology, sociology, economics, and history.

ILR graduates who choose to work immediately after graduation find a large number of organizations interviewing on campus for such entry-level positions as labor relations specialists, personnel management trainees, and industrial relations assistants. Other graduating students have located positions as union organizers, trainers, and researchers through networks of people familiar with the school and its graduates.



Division of Biological Sciences

The Division of Biological Sciences provides a unified curriculum for undergraduate majors enrolled in either the College of Agriculture and Life Sciences or the College of Arts and Sciences. The study of biology provides excellent preparation for careers in the medical, agricultural, environmental, pharmaceutical, and basic biological sciences. It also deals with our understanding of ourselves and the living world of which we are a part.

Many of the major problems facing society today require consideration of the limits that our world can endure. Attempts to solve those problems without consideration of their biological components are futile. Consequently, a major in biology is as suitable for students seeking a general education as for those who want to pursue graduate or professional studies. The program is academically demanding, with high standards and high expectations for its students and faculty. At the same time it is flexible, offering many options and alternatives so that students can design programs that match their interests and serve their career goals. Courses in biological sciences are also an integral part of many disciplines and are a basic requirement for study in many schools and colleges at Cornell.

Students majoring in biology complete a series of introductory courses in the physical and life sciences as well as advanced courses in a particular subject area of biology. The required introductory

courses are prerequisites for upper-level courses and are essential for understanding biology today. A most important aspect of Cornell's biology program is the opportunity provided for many students to participate in research with one of the hundred professors in the division. There is no better way to round out an undergraduate experience.

To gain deeper insight into a specific area, biology majors complete courses within one of the following areas of concentration: animal physiology and anatomy; biochemistry; botany; cell biology; ecology, systematics, and evolution; or neurobiology and behavior. The option of pursuing an independent concentration in microbiology, nutrition, biophysics, or an area of study designed by the student and approved by the curriculum committee of the Division of Biological Sciences is also available. In addition, students must fulfill a requirement for breadth in biology outside the chosen concentration area. Students who prefer not to concentrate in one particular area of biology may choose instead to complete the program in general biology, which includes courses in ecology, neurobiology and behavior, anatomy, physiology, and botany.

An important part of the undergraduate experience in the division is interaction with the graduate community. Graduate study in biological sciences is administered by more than a dozen specialized fields within the Graduate School.



Interdisciplinary Centers and Programs

Along with the pursuit of excellence in traditional subjects at Cornell, there is acute awareness of current problems with implications stretching across disciplines. Students and faculty members in many segments of the University are exploring such problems. Their efforts take shape in new fields, programs and centers, which include the Africana Studies and Research Center, the Center for International Studies, the Program on Science, Technology, and Society, and the Women's Studies Program.

Since its beginning in 1969, the Africana Studies and Research Center has been concerned with such topics as Pan-Africanism, contemporary black ideologies, and the people and movements in the black urban ghetto. The undergraduate major and the graduate programs are multidisciplinary and comparative, presenting a variety of subjects in focal areas of history, literature, the social sciences, and Swahili language and literature. Joint majors within the College of Arts and Sciences and with the Department of Human Service Studies in the College of Human Ecology can be planned with the assistance of the center's staff. All courses offered by the center are approved for credit as electives in the College of Arts and Sciences. The center also brings visiting lecturers to the campus, sponsors a lecture series,

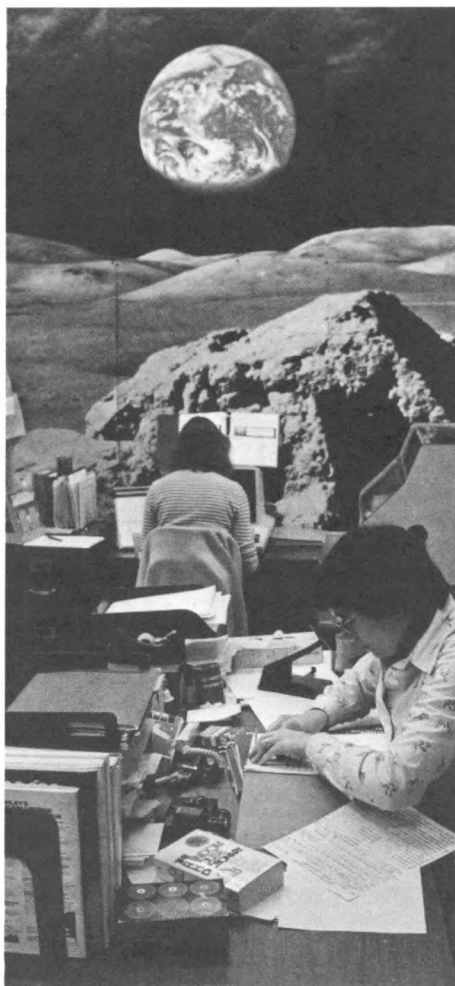
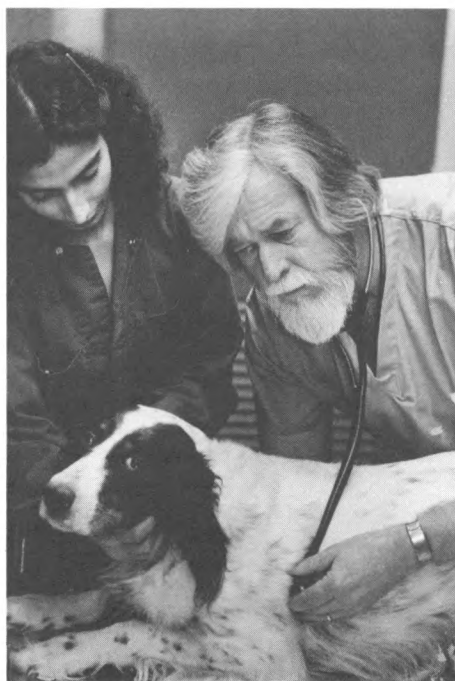
and has arranged study tours to Africa and the Caribbean.

The major role of the Center for International Studies is to support and coordinate Cornell's teaching and research programs in international and comparative studies through a network of faculty committees. These multidisciplinary committees are organized in clusters: area studies programs covering China and Japan, Latin America, South Asia, Southeast Asia, and the Soviet Union; professional programs such as international education and international law; and problem-solving programs that examine substantive policy issues cutting across area and professional concerns, for example, the study of international population problems or international political economy.

The Program on Science, Technology, and Society is an interdisciplinary unit that promotes teaching and research on the interactions of science and technology with political and social institutions, drawing from departments throughout the University. Courses developed by the program are designed to both synthesize and contrast the perspectives of several academic disciplines in the analysis of relationships among science, technology, and the needs, values, and institutions of modern societies. Topics of special concern include science, technology, and public policy; biology and society; technology assessment; citizen participation in technical decision making; arms control and national defense policies; energy policy; environmental policy and ethics; and biomedical ethics.

The Women's Studies Program, in the College of Arts and Sciences, has three goals: to encourage the development of teaching about women and about sex roles; to examine assumptions about women in various disciplines and develop, systematize, and integrate into these disciplines new knowledge about women; and to cooperate in public service activities with the extension division of the University. Each term the program offers courses both independently and in cooperation with other departments. Students in the College of Arts and Sciences who want to major in women's studies can design their own major through the College Scholar Program or the Independent Major Program.

Other interdisciplinary programs include the Peace Studies Program, the Rural Development Committee, and the International Population Program.



Graduate Programs

Graduate study at Cornell is pursued through the Graduate School, which administers the many graduate fields of study, and through the various graduate professional schools and colleges.

The following schools and colleges require a baccalaureate degree for admission, except in a few cases: Graduate School of Business and Public Administration (enrollment, about 500), the Graduate School (3,740), the Law School (500), the Medical College (440), the Graduate School of Medical Sciences (120), and the New York State College of Veterinary Medicine (320). The Medical College and the Graduate School of Medical Sciences are located in New York City.

Correspondence about courses of study in, and admission to, these schools and colleges should be sent to the individual units at the addresses below:

Graduate School of Business
and Public Administration
Cornell University
Malott Hall
Ithaca, New York 14853

Graduate School
Cornell University
Sage Graduate Center
Ithaca, New York 14853

Law School
Cornell University
Myron Taylor Hall
Ithaca, New York 14853

Cornell University Medical College
Office of Admissions
445 East Sixty-ninth Street
New York, New York 10021

Graduate School of Medical Sciences
Cornell University
1300 York Avenue
New York, New York 10021

New York State College
of Veterinary Medicine
Cornell University
Schurman Hall
Ithaca, New York 14853



College of Agriculture and Life Sciences

Nondepartmental Courses

Basic Review Mathematics
Introduction to Farm Techniques
Introductory College Mathematics
America and World Community
Agriculture, Society, and the Environment
Environmental Biology

Agricultural Economics

Economics of Agricultural Geography
Introduction to Business Management
Accounting
Marketing
Introduction to Energy Resources
Farm Business Management
Introductory Statistics
Business Law
Taxation in Business and Personal Decision Making
Managerial Accounting and Economics
Financial Management
Economics of the Public Sector
Economics of Marketing
Marketing Management
Pricing Milk and Dairy Products
Marketing Horticultural Products
Resource Economics
Farm and Food Policies
Agricultural Prices
Independent Honors Research in Social Science
Advanced Farm Business Management
Farm Finance
Farm and Rural Real Estate Appraisal
Advanced Agricultural Finance Seminar
Farm Management Seminar
Introduction to Linear Programming
Advanced Business Law
Business Policy
Personal Financial Management
Management of Cooperative Action
Agricultural Trade Policy
Food Industry Management
Food Merchandising
Field Study of Marketing Institutions
Evaluating Resource Investment and Environmental Quality
Agricultural Land Policy
Economics of Agricultural Development
Undergraduate Research
Marketing Research
Production Economics
Economic Analysis of Public Policy
Economic Aspects of Energy Use
Special Problems in Land Economics
Food, Population, and Employment
Microeconomic Issues in Agricultural Development

Seminar on Latin American Agricultural Policy
Seminar in Agricultural Development
Special Topics in Agricultural Economics
Advanced Production Economics
Econometrics
Quantitative Methods
Econometric Models
Research Methods in Agricultural Economics
Seminar on Agricultural Trade Policy
Seminar on Methods of Trade and Commodity Policy Analysis
Agricultural Markets and Prices
Agricultural Markets and Public Policy
Export Marketing
Seminar on Agricultural Policy
Readings in Philosophy

Agricultural Engineering

Mechanical Drawing
Farm Metal Work
Elements of House Design
Farm Carpentry
Introduction to Agricultural Engineering and Computing
Engineering Drawing
Undergraduate Seminar
Energy and Man
Application of Physical Sciences
Plane Surveying
Engineering Applications in Biological Systems
Safety and Accident Prevention
Introduction to Computer Uses in Data Analysis
Principles of Navigation
Advanced Farm Metal Work

Farm Machinery
Internal Combustion Engines for Agriculture
Electricity on the Farm
Soil and Water Conservation
Introduction to Environmental Pollution
Farmstead Production Systems
Farm Buildings Design
Introduction to Hydrology
Career Development in Agricultural Engineering
Power Transmission Systems
Agricultural Machinery Design
Agricultural Power
Processing and Handling Systems for Agricultural Materials
Engineering Design and Analysis of Food Processing Equipment
Soil and Water Engineering
Introduction to Environmental Systems Analysis
Agricultural Structures Design
Environmental Control for Animals and Plants
Highway Engineering
Bituminous Materials and Pavement Design
Special Problems in Agricultural Engineering
Agricultural Engineering Design Project
Similitude Methodology
Instrumentation
Drainage Engineering
Irrigation Engineering
Treatment and Disposal of Agricultural Wastes
Nonpoint Source Water Quality Models
Use of Land for Waste Treatment and Disposal
Biological Engineering Analysis
General Seminar
Special Topics in Agricultural Engineering
Orientation for Research
Power and Machinery Seminar
Soil and Water Engineering Seminar
Agricultural Waste Management Seminar
Agricultural Structures and Related Topics Seminar
Biological Engineering Seminar

Agronomy

Atmospheric Sciences

Basic Principles of Meteorology
Basic Principles of Meteorology Laboratory
Dynamic Climatology
Agricultural Meteorology
Meteorological Communications
Theoretical Meteorology
Physical Meteorology
Synoptic Meteorology
Isentropic Theory and Analysis
Biometeorology
Undergraduate Research in Meteorology
Special Topics in Meteorology and Climatology
Seminar in Meteorology
Research in Meteorology

Crop Science

Grain Crops
Forage Crops
Production of Tropical Crops
Weed Science
Seed Science and Technology
Undergraduate Research in Crop Science
Physiology of Environmental Stresses
Crop Simulation Modeling
Grain Formation
Ecology and Physiology Yield
Special Topics in Crop Science
Graduate Research in Crop Science
Agronomy Seminar

Soil Science

Nature and Properties of Soils
Identification, Appraisal, and Geography of Soils
Field Identification of Soils
Soil and Water Conservation
Soil Fertility Management
Aquatic Plant Management
Geography and Appraisal of Soils of the Tropics
Organic Soils
Forest Soils
Soil Microbiology
Microbial Ecology
Management Systems for Tropical Soils
Special Topics in Soil Science
Undergraduate Research in Soil Science
Use of Soil Information and Maps as Resource Inventories
Chemical Methods of Soil Analysis

Morphology, Genesis, and Classification of Soils
Advanced Soil Microbiology
Soil Physics
Water Status in Plants and Soils
Soil Organic Matter
Soil Chemistry and Mineralogy
Soil Fertility Advanced Course
Graduate Research in Soil Science
Agronomy Seminar

Animal Sciences

Introductory Animal Science
Contemporary Perspectives on Animal Science
Livestock Nutrition
Nutrition of Companion Animals
Animal Physiology
Animal Reproduction and Development
Introductory Animal Genetics
Poultry Biology
Dairy Cattle
Dairy Cattle Selection and Type Evaluation
Horses
Meat and Meat Products
Seminar on Genetics of the Horse
Commercial Poultry Production
Dairy Cattle Production and Management
Advanced Dairy Cattle Selection
Beef Cattle
Swine Production
Sheep
Meat Animal and Carcass Evaluation
Livestock Production in Warm Climates
Seminar Dairy Production
Undergraduate Seminar
Forages of the Tropics for Livestock Production
Principles of Animal Nutrition
Poultry Nutrition
Animal Cytogenetics
Quantitative Animal Genetics
Seminar in Animal Genetics
Research Techniques in Quantitative Animal Genetics
Fundamentals of Endocrinology
Artificial Breeding of Farm Animals
Application of Systems Analysis in Livestock Production Management
Immunophysiology
Physiology and Biochemistry of Lactation
Comparative Physiology of Reproduction of Vertebrates
Immunogenetics
Commercial Meat Processing
Special Topics in Animal Sciences
Proteins and Amino Acids in Nutrition
Vitamins
Forages, Fiber, and the Rumen
Seminar in Poultry Biology
Seminar
Forage Analysis
Field of Nutrition Seminar
Seminar in Animal Breeding
Seminar in Reproductive Physiology
Special Topics in Animal Science
Experimental Methods in Quantitative Genetics and Animal Breeding

Biological Sciences (see p. 29)

Communication Arts

Writing for Media
Theory of Human Communication
Parliamentary Procedure
Communicating Public Information
Introduction to Mass Media
Visual Communication
Art of Publication
Oral Communication
Persuasion
Small Group Communication
Radio and Television Communication
Advertising and Promotion
Technical and Scientific Writing and Editing
Basic News Writing for Newspapers
Scientific Writing for the Mass Media
Radio Writing and Production
Television Writing and Production
Independent Honors Research in Social Science
Communication Law
Topics in Communication Theory
Psychology of Communication
Writing for Magazines
Print Media Laboratory
Broadcast Media Laboratory
Photo Communication

Communication Teaching Experience
Independent Research
Intercultural Communication
Seminar: Interpersonal Communication
Scientific Writing for Scientists
Communication in Organizations
Communication in the Developing Nations
Studies in Communication
Methods of Communication Research
Seminar in Organizational Communication
Frontiers in Communication
Advanced Communication Seminar
Seminar: Communication Issues
Communication Teaching Laboratory
Advanced Communication Projects
Directed Graduate Study

Education

Introduction to Psychology
The Art of Teaching
Educational Psychology
Learning to Learn
Psychology of Adolescence
Introduction to Teaching Agriculture
Youth Organizations
Theories of Teaching
Reading Statistics
Introduction to Educational Statistics
Issues in Educational Policy
Sociology of Education
Independent Honors Research in Social Science
Field Experience
Our Physical Environment
Environmental and Natural History Writing
Field Natural History
Teaching Elementary Science
Educational Measurement
Psychology of Human Interaction
Counseling Psychology
Special Problems in Agricultural Education
Teaching Agriculture: Methods, Materials, Practice
Adult Education Programs in Agriculture
Educating for Community Action
Curriculum Design
Implementing Instruction
Philosophy of Education
Contemporary Philosophy of Education
Law and Educational Policy
Economics of Education
Independent Study
Educational Psychology
Standardized Tests: Use and Interpretation
A Theory of Education
Group Processes in Education
Affective Education
Methods of Educational Inquiry
Continuing Education Programs
Structure of Knowledge and Curriculum
Teaching Mathematics
Curriculum Theory and Analysis
Evaluation for Program Management
Administration of Educational Organizations
Ethical Issues in Educational Administration
Governance of Public Education
Educational Finance
Systems Analysis in Educational Administration
Personnel Development: Issues in Higher Education
History of American Education
Educational Policy Development and Decision Making
Internship in Education
Research Seminar
Proseminar in Organization and Management of Sponsored Research
Seminar in Science and Environmental Education
Seminar in Educational Psychology and Curriculum
Seminar in Counseling Psychology
Adult Learning and Development
Conceptual Problems in Educational Inquiry
Designing Extension and Continuing Education Programs
Behavioral Change in International Rural Modernization
Community Education
Comparative Extension Education
Special Problems in Agricultural and Occupational Education
Teaching Agricultural and Occupational Education
Curriculum in Agricultural and Occupational Education

Adult Education Programs: Organization and Direction
 Teacher Preparation in Agriculture
 Occupational Education Program:
 Administration and Supervision
 Evaluating Programs in Occupational Education
 Seminar in Curriculum Theory and Research
 Studies in Educational Administration
 Seminar in Dewey's Philosophy of Education
 Economics of Rural Education
 Economics of Higher Education
 Seminar in Educational Psychology
 Seminar in Educational Research and Evaluation
 Seminar in Agricultural and Occupational Education
 Seminar in the Sociology of Education
 Seminar in Philosophy of Education

Entomology

Insects and Man
 Insect Biology
 Applied Entomology
 Introductory Beekeeping
 Communication and Social Behavior of the Honey Bee
 Practical Beekeeping
 Insect Morphology
 Introductory Insect Taxonomy
 Special Topics in Economic Entomology
 Pesticides in the Environment
 Insect Pest Management
 Pathology and Entomology of Trees and Shrubs
 Medical Entomology
 Insect Pathology
 Insect Ecology
 Ecology and Systematics of Freshwater Invertebrates
 Insect Physiology
 Special Topics for Undergraduates
 Undergraduate Research
 Techniques of Biological Literature
 Acarology
 Taxonomy of the Smaller Orders of Insects
 Taxonomy of the Immature Stages of Holometabola
 Taxonomy of the Coleoptera and Lepidoptera
 Taxonomy of the Diptera and Hymenoptera
 Araneology
 Pest Management Systems
 Insect Behavior Seminar
 Seminar in Coevolution Between Insects and Plants
 Seminar in Aquatic Ecology
 Biological Control
 Seminar in Insect Physiology
 Insect Toxicology and Insecticidal Chemistry
 Special Topics for Graduate Students
 Teaching Entomology
 Jugatae Seminar

Floriculture and Ornamental Horticulture

Introductory Floriculture and Ornamental Horticulture
 Floral Design
 Woody Plant Materials
 Garden and Interior Plants
 Woody Plant Materials for Landscape Use
 Turfgrass Management
 Nursery Crop Production and Maintenance
 Advanced Turfgrass Management
 Flower-Store Management
 Taxonomy of Cultivated Plants
 Physiology of Horticultural Plants
 Principles of Florist Crop Production
 Greenhouse Production Management
 Special Topics on Ornamental Plants
 Special Problems in Floriculture and Ornamental Horticulture
 Current Topics in Floricultural and Ornamental Horticulture Physiology
 Drawing for Landscape Architects
 Freehand Drawing
 Perspective for Landscape Architects
 Freehand Drawing and Illustration
 Watercolor
 Advanced Drawing
 Scientific Illustration

Landscape Architecture

Introduction to Landscape Design
 Design I and II: Basic Landscape Architectural Design
 Design III and IV: Intermediate Landscape Architectural Design
 Design V and VI: Advanced Landscape Architectural Design
 Graduate Landscape Architectural Design Studio
 Principles of Landscape Architecture
 Plants and Design
 Contemporary Issues in Landscape Architecture
 History of Landscape Architecture
 Site Construction
 Landscape Design for Nurserymen and Landscape Contractors
 Introduction to Parks and Recreation
 Issues in Parks and Recreation
 Urban Landscape Planning and Design
 Regional Landscape Inventories and Information Systems: An International Perspective
 Analysis and Use of Vegetation in Comprehensive Land Planning
 Summer Internship Seminar
 Graduate Seminar in Landscape Architecture
 Fieldwork and Workshop in Landscape Architecture

Food Science

Introductory Food Science
 Topics in Food Science
 Food Choices and Issues
 Food Analysis
 Food Science for Industry
 Postharvest Food Systems
 Physical Chemistry of Foods
 Nutritional Aspects of Raw and Processed Foods
 Introduction to Food Engineering
 Food Sanitation As Related to Public Health
 Milk and Frozen Desserts
 Milk Quality
 Food Microbiology
 Concepts of Product Development
 Product Development Laboratory
 International Food Science and Development
 Food Processing I—Drying, Freezing, Heat Preservation
 Food Processing II—Concentrating, Separating, Mixing
 Food Processing III—Fermentations
 Processing Fats and Oils
 Food Chemistry
 Sensory and Objective Evaluations of Foods
 Food Mycology
 Function of Food Ingredients
 Principles of Food Packaging
 Food Chemistry Laboratory
 Special Topics in Food Science
 Undergraduate Research in Food Science
 Food Protein Chemistry
 Food Lipids
 Food Carbohydrates
 Chemistry of Dairy Products
 Application of Physical Chemistry to Foods
 Instrumental Methods
 Food Color and Food Pigments
 Rheology
 Introductory Chemical Toxicology
 Mathematical Evaluation of Processed Packaged Foods
 Secondary Plant Metabolites in Foods

International Agriculture

Perspectives in International Agriculture and Rural Development
 Seminar: International Agriculture
 Agricultural Development in Southeast Asia
 Special Studies of Problems of Agriculture in the Tropics
 Administration of Agricultural and Rural Development
 Seminar on African Agriculture and Rural Development
 Special Topics in International Agricultural and Rural Development
 Seminar for Special Projects in Agricultural and Rural Development
 International Agricultural and Rural Development Project Paper

Microbiology

General Microbiology
 Tissue Culture Techniques and Applications
 Advanced General Microbiology
 Applied and Industrial Microbiology
 Aquatic Microbiology
 Microbial Ecology
 Microbial Physiology
 Cytology of Prokaryotes
 Selected Topics in Microbial Metabolism
 Bacterial Diversity
 Microbiology Seminar

Natural Resources

Principles of Conservation
 Environmental Conservation
 Introductory Field Biology
 Introductory Wildlife Biology
 Introductory Fishery Biology
 Introductory Forestry
 Natural Resources Inventories
 Forest Ecology
 Woodland Management
 Maple Syrup Production
 Winter Energetics
 Ecological Integration
 Religion, Ethics, and the Environment
 Principles of Wildlife Management
 Techniques in Wildlife Science
 Selected Topics in Wildlife Resource Policy
 Dynamics of Animal Populations
 Fishery Resource Management
 Fishery Science
 Techniques in Fishery Science
 Managing the Aquatic Environment
 Practicum in Natural Resources Analysis and Management
 Research in Fishery Science
 Research in Wildlife Science
 Research in Forestry
 Research in Resource Analysis and Planning
 Thesis Research and Professional Projects
 Waterfowl Biology
 Seminar on Selected Topics in Fishery Biology
 Seminar in Natural Resource Analysis for Ecologically Based Planning
 Habitat Ecology
 Seminar on Selected Topics in Resource Policy and Planning
 Ecology and Management of Disturbed Aquatic Systems
 Marine Resources Policies
 Perspectives on Conservation
 Policies and Management of Natural and Wild Lands
 Effects of Ecological Perturbations on Fishes
 Conservation Seminar
 Seminar in Environmental Values

Plant Breeding and Biometry

Plant Genetics
 Methods of Plant Breeding
 Physiological Genetics of Crop Plants
 Biochemical Analyses for Plant Breeders
 Experimental Methods
 Special Topics in Plant Science Extension
 Special Problems in Research and Teaching
 Perspectives in Plant Breeding Strategies
 Quantitative Aspects of Plant Breeding
 Genetics and Breeding for Disease and Insect Resistance

Plant Pathology

Introductory Plant Pathology
 Introductory Mycology
 Plant Disease Control
 Pathology and Entomology of Trees and Shrubs
 Pest Management for Plant Protection
 Cytology of Plant Diseases
 Plant Disease Epidemiology
 Plant Virology
 Plant Nematology
 Bacterial Plant Diseases
 Pathogen and Disease Physiology
 Mycology
 Diseases of Vegetable Crops
 Diseases of Fruit Crops
 Dendropathology
 Diseases of Florist Crops
 Plant Diseases in Tropical Agricultural Development

Plant Pathology Seminar
 Plant Pathology Colloquium
 The Science of Plant Pathology
 Nature of Plant Disease
 Diagnosis of Plant Disease
 Plant Virology
 Plant Nematology
 Bacterial Plant Pathogens
 Disease Physiology
 Advanced Mycology
 Applied Plant Virology
 Advanced Plant Virology
 Advanced Plant Nematology
 Advanced Disease Physiology
 Taxonomy of Fungi

Pomology

Tree Fruits
 Essentials of Fruit Growing
 Economic Fruits of the World
 Fruit Tree Nursery Operation
 Orchard Management
 Small Fruits
 Viticulture
 Postharvest Physiology and Storage of Fruits and Vegetables
 Fruit Crop Systematics
 Utilization of Fruit Crops
 Fruit Variety Improvement
 Undergraduate Seminar
 Special Topics in Experimental Pomology
 Growth and Development of Woody Plants

Rural Sociology

Introduction to Sociology
 Introduction to Rural Sociology
 Rural Sociology and World Development Problems
 Social Indicators and Data Management
 Social History of American Agriculture
 Proseminar: Issues and Problems in Rural Society
 Social Organization and the Environment
 Rural Development and Cultural Change
 Rural Society in America
 Subsistence Agriculture in Transition
 Independent Honors Research in Social Science
 Intermediate Sociological Theory
 Science, Technology, and Social Change
 Community Development
 Small Towns Seminar
 Politics and Development
 Rural Development Policy Analysis
 Changing Health Perspectives
 Contemporary Sociological Theories of Development
 Research Design
 Environmental Sociology
 Political Economy of Rural and Regional Development
 Macrosystems Theory and Policy Analysis
 Social Organization of Agriculture
 Structural Change in United States Agriculture
 State, Economy, and Society
 Factor Analysis and Multidimensional Scaling
 Macrosocial Accounting and Evaluation
 Regression and Path Analysis
 Social Movements in Agrarian Society
 Community Development and Local Control
 Applications of Sociology to Development Programs
 Sociotechnical Aspects of Irrigation
 Public Service Experience
 Rural Sociology
 Development Sociology
 Organization Behavior and Social Action
 Methods of Sociological Research

Statistics and Biometry

Statistics and the World We Live in
 Theory of Probability
 Theory of Statistics
 Matrix Algebra
 Statistics Seminar
 Statistical Methods
 Applied Regression Analysis
 Sampling Biological Populations
 Nonparametric and Distribution-Free Statistical Methods
 Mathematical Ecology
 Special Problems in Statistics and Biometry

Advanced Biometry
Experiment Design
Treatment Design and Related Experiment Designs
Linear Models
Statistical Design Theory
Statistical Consulting

Vegetable Crops

General Horticulture
Organic Gardening
Vegetable Types and Identification
Commercial Vegetable Crops
Postharvest Handling and Marketing of Vegetables
Vegetable Crop Physiology
Kinds and Varieties of Vegetables
Plant-Plant Interactions
Special Topics in Vegetable Crops
Postharvest Physiology of Horticultural Crops
Research Methods in Applied Plant Science

College of Architecture, Art, and Planning

Architecture

Architectural Design

Design I–X
Thesis Introduction
Special Program
Elective Design Studio
Elective Design
Special Problems in Architectural Design
Urban Housing Developments
Transportation
Low-Cost Housing
Seminar in Urban and Regional Design
Problems in Architectural Design
Problems in Urban Design
Thesis or Research in Architectural Design
Thesis or Research in Urban Design

Structures

Mathematical Techniques
Structural Concepts
Structural Systems
Advanced Steel Building Design
Building Substructure

Architectural Principles, Theories and Methods

Introduction to Architecture
Architectural Elements and Principles
Design Methods and Programming
Special Problems in Principles, Theories, and Methods
Computer Graphics
Theory of Architecture
Special Investigations in the Theory and History of Architecture
Special Projects in Computer Graphics
Computer-Aided Structural Design
Computer-Aided Environmental Design
Critical Theory in Architecture
Principles of Design Process

Architectural History

History of Architecture
History of Preindustrial Building
Architecture of the Ancient Near East
Architecture of the Classical World
Introduction to the History of Urban Planning
Islamic Architecture
The Renaissance
The Baroque
American Architecture
Modern European Architecture
Historical Seminars in Architecture
Russian Architecture
Nineteenth-Century Architecture
Special Investigations in the History of Architecture
History Workshop
Lectures in Architectural History
Methods of Archival Research
Measured Drawing
Problems in Contemporary Preservation Practice
Perspectives on Preservation
Documentation for Preservation Planning
Preservation Planning Workshop
Problems in Modern Architecture

Seminar in Architecture of the Ancient Near East
Seminar in Architecture of the Classical World
Building Materials Conservation
Seminar in the Renaissance
Seminar in the Baroque
Seminar in the History of American Architecture
Seminar in the History of Modern Architecture
Informal Study in the History of Architecture
Seminar in the History of Architecture and Urban Development
Thesis in Architectural History
Dissertation in Architectural History

Design Communication

Design Fundamentals
Introductory Photography
Second-Year Photography
Large-Format Architectural Photography
Graphic Design Studio
Architectural Simulation Techniques
Special Project in Photography
Special Project in Design Communication

Architectural Science and Technology

Introduction to Social Sciences in Design
Introduction to Environmental Science
Building Technology, Materials and Methods
Environmental Controls
Environmental Technology Workshop
Special Problems in Architectural Science
Environmental Control Systems
Architecture in its Cultural Context
Architectural Science Laboratory
Thesis or Research in Architectural Science

The Profession of Architecture

Professional Practice
Washington, D.C., Field Program
Architectural Drawing

Art

Courses in Theory and Criticism

Color, Form, and Space
Introductory Art Seminar
Seminar in Art Criticism

Studio Courses in Painting

Introductory Painting
Second-Year Painting
Third-Year Painting
Fourth-Year Painting
Senior Thesis in Painting
Graduate Painting

Studio Courses in Graphic Arts

Introductory Intaglio Printing
Introductory Silk-Screen Printing
Introductory Lithography
Second-Year Intaglio Printing
Second-Year Silk-Screen Printing
Second-Year Lithography
Third-Year Printmaking
Fourth-Year Printmaking
Senior Thesis in Printmaking
Graduate Printmaking

Studio Courses in Sculpture

Introductory Sculpture
Second-Year Sculpture
Third-Year Sculpture
Fourth-Year Sculpture
Senior Thesis in Sculpture
Graduate Sculpture

Studio Courses in Photography

Introductory Photography
Second-Year Photography
Photo Processes
Third-Year Photography
Fourth-Year Photography
Graduate Photography

Studio Courses in Drawing

First-Year Drawing
Second-Year Drawing
Third-Year Drawing

Special Studio Courses

Independent Studio in Painting
Independent Studio in Sculpture
Independent Studio in Printmaking
Independent Studio in Photography

City and Regional Planning

Urban and Regional Theory

Contemporary Issues in Urban and Regional Studies
Introduction to Urban and Regional Theory
Spatial Analysis of Urban and Regional Systems
Urban Economics
Fieldwork or Workshop in Urban and Regional Theory
Special Topics in Urban and Regional Theory
Advanced Seminar in Urban and Regional Theory

Planning Theory and Politics

Planning and Political Economy
Introduction to Planning Theory
Introduction to Planning
Urban Politics and Planning
Neighborhood and Community Theory
Politics of the Planning Process
Planning and Organization Theory
Fieldwork or Workshop in Planning Theory and Politics
Special Topics in Planning Theory and Politics
Advanced Planning Theory

Quantitative Methods and Systems Analysis

Introduction to Quantitative Methods
Mathematical Concepts for Planning
Introduction to Computers in Planning
Planning Analysis
Statistical Analysis for Planning
Planning Information Systems
Methods of Social Policy Planning
Quantitative Techniques for Policy Analysis and Program Management
Simulation in Planning and Policy Analysis
Decision Analysis for Policy Planning and Program Management
Fieldwork or Workshop in Systems Planning and Analysis
Special Topics in Quantitative Methods and Analysis

Regional Development Planning

Regional Economic Development
Introduction to Regional Development
Regional Development Administration
Methods of Regional Science
Optimization Techniques in Planning
Regional Industrial Development
Fieldwork or Workshop in Regional Development Planning
Special Topics in Regional Development Planning
Location Theory
Methods of Regional Analysis

Social Policy Planning

Institutional Decision Processes
The Impact and Control of Technological Changes
Social and Political Studies of Science
Introduction to Social Policy Planning
The Politics of Technical Decisions
Planning, Organizing, and Public Service Delivery
Recurring Themes in Social Policy Planning
Critical Theory and the Foundation of Planning Analysis
Seminar in Social Policy Research and Analysis
Critical Theory and Public Policy
Urban Financial Planning and Management
Urban Fiscal Analysis
Informal Seminar in Planning Theory: Philosophy, Ethics, and Values in Planning
Fieldwork or Workshop in Social Policy Planning

Urban Development Planning

Suburbanization and Metropolitan America
Urban Land-Use Planning
Introduction to Planning Design
Planning Design Workshop
Built-Environment Education Workshop
Small-Town Community Design Workshop
Urban Land Policy and Programs
The Urban Development Process
Legal Aspects of Land-Use Planning

Critical Areas Protection
Planning and Development Workshop
Urban Land Policy and Programs—Special Problems
Fieldwork or Workshop in Urban Development Planning

Special Interprogram Topics: History and Preservation

Introduction to the History of Urban Planning
Methods of Archival Research
The American Planning Tradition
Documentation for Preservation
Historic Preservation Planning Workshop: Surveys and Analyses
Perspectives on Preservation
Problems in Contemporary Preservation Practice
Building Materials Conservation
Seminar in the History of American City Planning
Historic Preservation Planning Workshop: Plans and Programs
Seminar in American Urban History
Historic Preservation Law
Economics and Financing of Neighborhood Conservation and Preservation
Public Policy and Preservation Planning
Fieldwork or Workshop in History and Preservation

Special Interprogram Topics: International Studies

Seminar in Latin American Urban Planning and Development
Workshop in Latin American Urban Planning and Development
Regional Planning and Development in Developing Nations
Seminar in International Planning
Seminar in Science and Technology Policy in Developing Nations
Seminar in Policy Planning in Developing Nations: Technology Transfer and Adaption
Seminar in Project Planning in Developing Nations
Theories of Development and Underdevelopment
Fieldwork or Workshop in Planning for Developing Regions

Special Interprogram Topics: Environmental Health, Housing, and Institutional Planning

Environmental Issues and Public Decisions
Environmental Aesthetics
Administrative Planning
Introduction to Environmental Health Issues
Environmental Epidemiology
Environmental Law, Policy, and Management
Environmental Management Workshop
Environmental Law II: Natural Resources and Toxic Substances
The Political Economy of Health Planning
Planning and Evaluation of Environmental Health Programs and Projects
Environmental Health Planning
Health Systems Planning
Fieldwork or Workshop in City and Regional Planning
Professional Planning Colloquium
Planning Internships
Informal Studies in Environmental Health Planning
Informal Studies in City and Regional Planning
Planning Research Seminar

Landscape Architecture

Basic Landscape Architectural Design
Principles of Landscape Architecture
Principles of Landscape Architecture Seminar
Plants and Design
Landscape Design
Intermediate Landscape Architectural Design
Site Construction
Advanced Landscape Architectural Design
Senior Thesis Project
Introduction to Parks and Recreation
Parks and Recreation Workshop
Urban Environmental Planning
Urban Environment Workshop

Graduate Landscape Architecture Design Studio
 Contemporary Issues in Landscape Architecture
 History of Landscape Architecture
 Urban Landscape Planning and Design
 Regional Landscape Inventories and Information Systems
 Analysis and Use of Vegetation in Comprehensive Land Planning
 Summer Internship Seminar
 Graduate Seminar in Landscape Architecture
 Fieldwork or Workshop in Landscape Architecture

College of Arts and Sciences

Akkadian

Elementary Akkadian
 Readings in Akkadian Texts

Anthropology

Introductory Courses

Nature and Culture
 Social Anthropology
 The Comparison of Cultures
 Humankind: The Biological Background
 Ancient Societies
 Encounters With Other Cultures
 The Anthropologist's America
 Apes and Languages
 Rites of Passage
 The Discovery of America
 Ethnographic Films
 The Discipline of Anthropology
 Social Relations Seminar
 Topics in Anthropology

Archaeological Courses

The Earliest Civilizations
 Interpretation of the Archaeological Record
 Archaeology of the Americas
 Archaeological Research Methods
 Field Archaeology in South America
 Investigation of Andean Institutions:
 Archaeological Strategies
 Seminar in Archaeology: Central America

Biological and Ecological Anthropology

Human Biology: Variation and Adaptations of Contemporary Populations
 Ecology and Human Biology
 Human Behavior: A Sociobiological Perspective

Linguistic Anthropology

Language and Culture

Sociocultural Anthropology

Biology and Society I: The Biocultural Perspective
 Biology and Society II: Biology, Society, and Human Values
 Psychological Anthropology
 Urban Anthropology
 Applied Anthropology
 Meaning Across Cultures
 Anthropology of Women and Gender
 Comparative Religious Systems
 Kinship and Social Organization
 Images of Exotics
 Economic Anthropology
 Law and Culture
 Politics and Culture
 Peasant Cultures
 Ethnohistory
 Special Problems in the Anthropology of Women
 Myth, Ritual, and Sign
 Ethnography of Communication
 Anthropological Boundaries
 Portraits, Profiles, and Life Histories
 Constructions and Visualizations

Theory and History of Anthropology

Ethnographic Description
 Contemporary Anthropological Theory
 History of Anthropology in the United States
 Structuralism
 Development of Anthropological Thought
 Ritual Structures and Cultural Pluralism

Area Courses

Ethnology of Native North America
 Ethnohistory of the Northern Iroquois
 The United States
 Ethnology of the Andean Region
 Ethnology of Island Southeast Asia
 Ethnology of Mainland Southeast Asia
 Ethnology of Oceania
 Ethnology of Africa
 Culture and Society in South Asia
 Traditional Chinese Society and Culture
 Modern Chinese Society
 Japanese Society
 Indians of Mexico and Central America
 Andean Thought and Culture
 Mesoamerican Thought and Culture

Graduate Seminars

Southeast Asia Seminar: Burma
 Southeast Asia Seminar: Philippines
 Special Problems in Anthropology
 Principles of Social Anthropological Theory
 History of Anthropological Thought
 Methods of Assessing Child Growth
 Anthropological Approaches to the Study of Buddhism in Asia
 Law in the Context of Culture
 Political Anthropology: Culture and Revolution in Indonesia
 Anthropometric Assessment
 Andean Symbolism
 Andean Research
 Southeast Asia: Readings in Special Problems
 Regional Systems and Local Communities
 Japanese Ethnology
 Anthropological Boundaries
 Constructions and Visualizations
 Problems in Archaeology: Agricultural Origins
 Problems in Archaeology: Early Man in America
 The Discovery of America
 Origins of Mesoamerican Civilization
 Topics in Ecological Anthropology
 Topics in Biomedical Anthropology

Arabic

Elementary Arabic
 The Spoken Arabic of Egypt
 Intermediate Arabic
 Advanced Arabic

Aramaic

Aramaic

Archaeology

Introduction to Archaeology
 Popular Archaeology
 The Origins and Diversity of the Family in Antiquity
 Archaeoastronomy

Theory and Interdisciplinary Approaches

Ancient Societies
 The Earliest Civilizations
 History of Archaeology
 Dendrochronology of the Aegean
 Historical Archaeology: Method and Theory
 Geomorphology
 Interpretation of the Archaeological Record
 Archaeological Research Methods
 Ceramics
 Seminar in Archaeology
 Architectural Problems in Archaeological Fieldwork
 Problems in Archaeology: Agricultural Origins

Old World Archaeology

Freshman Seminar in Archaeology
 Mediterranean Archaeology
 Rise of Classical Greece
 Introduction to Classical Archaeology
 Minoan-Mycenaean Art and Archaeology

Archaeology in Action
 The History of Ancient Israel
 Ancient Seafaring
 Introduction to Biblical Archaeology
 Archaeology of the Ancient Near East
 Archaeology of Ancient Europe
 Archaeology of Classical Greece
 Archaeology of Cyprus
 Arts of the Roman Empire
 Greek Vase Painting
 Greek and Roman Coins
 History and Archaeology of Ebla
 Archaeology of Ancient Egypt
 The Vikings
 Seminar in Aegean Archaeology
 Seminar in Classical Greek Archaeology

New World Archaeology

Indian Lifeways of Ancient North America
 Archaeology of the Americas
 Mesoamerican Thought and Culture
 Seminar in Andean Symbolism
 Seminar in Andean Research
 Problems in Archaeology: Early Man in America

Asian Studies

Three Ways of Thought: Confucianism, Taoism, Zen
 Dimensions of Religious Experience in Asia
 Early Buddhism
 Mahayana Buddhism
 Japanese Religions
 Seminar on Asian Religions
 Asian Dance and Dance Drama
 Southeast Asian Literature in Translation
 Seminar in East Asian Literature

Astronomy

The Universe Beyond the Solar System
 Our Solar System
 Astronomy: Stars, Galaxies, and Cosmology
 Theories of the World: The Solar System, Planets, and Life
 Information and Knowledge in Science and Engineering
 Life in the Universe
 Elements of Astrophysics
 Introduction to Astrophysics and Space Sciences
 The Sun
 The Evolution of Planets
 Applications of General Relativity
 High Energy Astrophysics
 Galactic Structure and Stellar Dynamics
 Radio Astronomy
 Radio Astrophysics
 Signal Processing in Astronomy
 Theory of the Interstellar Medium
 Theory of Stellar Structure and Evolution
 Mechanics of the Solar System
 Radiative Transfer and Planetary Atmospheres
 Celestial Mechanics
 Seminar: Advanced Radio Astronomy
 Seminar: Infrared Astronomy
 Advanced Study and Research
 Cosmic Electrodynamics
 Special Topics in Planetary Astronomy
 Seminar: Current Problems in Planetary Fluid Dynamics
 Seminar: Cosmic Rays and High-Energy Electromagnetic Radiation
 Seminar: Current Problems in Theoretical Astrophysics

Biological Sciences (see p. 29)

Burmese

Intensive Elementary Course: Listening, Speaking, Reading, Writing
 Intermediate Burmese Reading Course
 Composition and Conversation
 Advanced Burmese Reading Course

Cambodian

Intensive Elementary Course: Listening, Speaking, Reading, Writing
 Intermediate Cambodian Reading Course
 Composition and Conversation
 Advanced Cambodian
 Structure of Cambodian

Cebuano (Bisayan)

Intensive Basic Course: Listening, Speaking, Reading, Writing

Chemistry

Introduction to Chemistry
 Man in His Chemical Environment
 Origins of Life
 General Chemistry
 General Chemistry and Inorganic Qualitative Analysis
 Introduction to Experimental Organic Chemistry
 Elementary Experimental Organic Chemistry
 Elementary Organic Chemistry
 Introductory Physical Chemistry
 Quantitative Chemistry
 Experimental Chemistry
 Introductory Organic Chemistry
 Organic Chemistry
 Physical Chemistry
 Advanced Measurements Laboratory
 Techniques of Modern Synthetic Chemistry
 Introduction to Inorganic Research
 Introduction to Analytical Research
 Introduction to Organic Research
 Introduction to Research in Physical Chemistry
 General Chemistry Colloquium
 Advanced Inorganic Chemistry I: Symmetry and Structure
 Advanced Inorganic Chemistry II: Structure and Dynamics
 Advanced Inorganic Chemistry III: Structure and Properties
 Chemical Communication
 Advanced Analytical Chemistry
 Organic and Organometallic Chemistry Seminar
 Advanced Organic Chemistry
 Synthetic Organic Chemistry
 Chemical Aspects of Biological Processes
 Enzyme Catalysis and Regulation
 Chemistry of Nucleic Acids
 Thermodynamics
 Physical Chemistry of Proteins
 Baker Lectures
 Introductory Graduate Seminar in Analytical, Inorganic, and Physical Chemistry
 Selected Topics in Advanced Inorganic Chemistry
 Physical Organic Chemistry
 Selected Topics in Organic Chemistry
 Chemistry of Natural Products
 Principles of Chemical Kinetics
 Special Topics in Biophysical and Bioorganic Chemistry
 X-Ray Crystallography
 Quantum Mechanics
 Statistical Mechanics
 Selected Topics in Physical Chemistry

Chinese

Culture

Revolutions and Social Values in Modern Chinese Literature
 Three Ways of Thought: Confucianism, Taoism, Zen
 Introduction to China
 Traditional Chinese Society and Culture
 Modern Chinese Society
 Chinese Government and Politics
 The Foreign Policy of China
 Readings on the Great Cultural Revolution
 Capitalism and Communism: Chinese and Japanese Patterns of Development
 The Thoughts of Mao Ze Dong
 China and the West before Imperialism
 Chinese Views of Themselves
 Early Warfare, East and West
 History of China up to Modern Times
 Undergraduate Seminar in Medieval Chinese History
 Self and Society in Late Imperial and Twentieth-Century China
 Undergraduate Seminar: The First Chinese Revolution, 1880-1930
 Chinese Historiography and Source Materials
 Problems in Modern Chinese History
 Seminar in Medieval Chinese History
 Art of China
 Chinese Painting and Ceramics
 Chinese Art of the T'ang Dynasty
 Studies in Chinese Painting
 Problems in Chinese Art

Chinese Philosophical Literature
Chinese Poetry
Twentieth-Century Chinese Literature
Chinese Narrative Literature
Chinese and Japanese Bibliography and Methodology

Chinese Philosophical Texts
Classical Narrative Texts
T'ang and Sung Poetry
Readings in Literary Criticism
Readings in Folk Literature
Seminar in Chinese Fiction

Languages and Linguistics

Elementary Course
Cantonese Basic Course
Intermediate Chinese
Chinese Conversation
Intermediate Cantonese
Introduction to Classical Chinese
Chinese Composition
History of the Chinese Language
Linguistic Structure of Chinese: Phonology and Morphology
Linguistic Structure of Chinese: Syntax
Chinese Dialects
Readings in Modern Chinese Literature
FALCON: Intensive Mandarin Course

Classics

Word Power: Greek and Latin Elements in the English Language
Freshman Seminar in Greek Literature
Freshman Seminar in Ancient Philosophy
Freshman Seminar in Latin Literature
Freshman Seminar in Classical Archaeology
Life Under the Caesars: The Satirist's View
The Individual and Society in Classical Athens
Greek Philosophy
Hellenistic and Roman Philosophy
The Genius of Christianity
Greek and Roman Mystery Religions
Greek and Roman Historians
Cicero and His Age
Greek and Roman Drama
Roman Law
Arts and Monuments of Athens
Greeks and Their Eastern Neighbors
Art and Archaeology of Archaic Greece
Greek Foundations of Western Literature
Pagans and Christians at Rome
Ancient Philosophy of Science
Women in Classical Greece and Rome
Augustine
The Church of the Fathers
Decline and Fall of the Roman Empire
Language of Myth
Patristic Seminar

Comparative Literature

Great Books
Culture as Semiotic System
Introduction to Psychopathological Texts
Comedy
Christianity and Judaism
Literature of the Old Testament
Medieval Literature
Medieval Literature: Dante in Translation
Classic and Renaissance Drama
European Drama, 1660 to 1900
Modern Drama
The Literature of Europe in the Renaissance
The Literature of Europe Since 1800
Being, God, Mind: Humanistic Revolutions
From Plato to Vico
Biology and Theology: Approaches to the Origin of Life, Evolution, Heritage and Freedom, Sexuality, and Death
The European Novel
The Russian Connection
Literature and Society
History and Theory of Drama
Introduction to Twentieth-Century Criticism
Hume and Rousseau
Old Testament Seminar
New Testament Seminar
Readings in the New Testament
Allegory and Symbolism
Renaissance Public Theater
Hegel's Phenomenology in Context
Fiction and the Irrational
Verga, D'Annunzio, and Pirandello
The Aesthetics of Coincidence
Critical Perspectives: Roland Barthes

Jean Paul and the Eighteenth-Century Humorous Novel
Hermeneutics

Computer Science

Introduction to Computer Programming
The Computer Age
Introduction to FORTRAN Programming
Introduction to PASCAL
Introduction to APL Programming
Introduction to Interactive Computing with CMS
Introduction to Statistical Packages
Multistep Job Processing and JCL
Computers and Programming
Discrete Structures
Social Issues in Computing
Introduction to Computer Systems and Organization
Numerical Methods
Data Structures
Systems Programming and Operating Systems
Interactive Computer Graphics
Introduction to Simulation and Database Systems
Introduction to Database Systems
Introduction to Theory of Computing
Computer Science and Programming
Advanced Programming Languages
Translator Writing
Concurrent Programming and Operating Systems Principles
Machine Organization
Picture Processing
Numerical Analysis
Short Course on Linear and Nonlinear Least Squares
Short Course on Spline Approximation
Analysis of Database Systems
Information Organization and Retrieval
Theory of Algorithms and Computing
Computer Science Graduate Seminar
Theory of Programming Languages
Theoretical Aspects of Compiler
Seminar in Operating Systems
Seminar in Programming
Advanced Numerical Analysis
Seminar in Numerical Analysis
Selected Topics in Information Processing
Seminar in File Processing
Seminar in Information Organization and Retrieval
Advanced Theory of Computing
Seminar in Automata Theory
Special Investigations in Computer Science

Dutch

Intensive Elementary Course: Listening, Speaking, Reading, Writing
Seminar in Dutch Linguistics

Economics

Introductory Economics
Economics of Market Failure
The Impact and Control of Technological Change
Economics and the Law
Economics of Defense Spending
Economic Analysis of Government
Capitalism and Socialism
Intermediate Microeconomic Theory
History of Economic Thought
Intermediate Mathematical Economics
Quantitative Methods

Economic History

Economic History of Ancient Medieval History
Economic History of Modern Europe: 1750 to the Present
American Economic History
Economic History of Latin America
History of American Business Enterprise
The Soviet Union: Politics, Economics, and Culture

Money, Banking, and Public Finance

Money and Credit
Theory and Practice of Asset Markets
Public Finance: Resource Allocation
Collective Choice: Theory and Applications
Macroeconomic Policy

Labor Economics

Labor Economics
Problems in Labor Economics

Organization, Performance, and Control of Industry

Industrial Organization
Public Regulation of Business
Economics of Regulation
Economics of the American System of Private Enterprise
Economics of Imperfect Information
Current Economic Issues

International and Comparative Economics

International Trade Theory and Policy
International Monetary Theory and Policy
The United States in the World Economy
Economic Policy and Development in Southeast Asia
Introduction to the Japanese Economy
Comparative Economic Systems: Soviet Union and Europe
Comparative Economics: United States, Europe, and the Soviet Union
Public Policy and Economic Development
Applied Economic Development
International Specialization and Economic Development
National and International Food Economics
Economics of Participation and Worker's Management
The Practice and Implementation of Self-Management

Graduate Courses and Seminars

Nonparametric Methods for Peace Scientists and Regional Scientists
Interdependent Decision Making
Microeconomic Theory
Macroeconomic Theory: Static Income Determination
Macroeconomic Theory: Dynamic Models, Growth, and Inflation
Economic History of Ancient Medieval Europe
Economic Problems of Latin America
Economics of Workers' Management in Yugoslavia
Readings in Economics
Seminar in Peace Science
Advanced Social Theory for Peace Scientists
Advanced Microeconomic Theory
Mathematical Economics
Econometrics
American Economic History
Methods in Economic History
Monetary Theory and Policy
Public Finance: Resource Allocation and Fiscal Policy
Public Finance: Local Government and Urban Structure
Seminar in Labor Economics
The Labor Market and Public Policy: A Comparative View
Economics of Evaluation
Issues in Latin America
Industrial Organization and Regulation
International Economics: Pure Theory and Policy
The International Economic Order
International Economics: Balance of Payments and International Finance
Economic Demography and Development
Economics of Development
Development in a Polarized World
Economic Systems
Economic Growth in Southeast Asia
Theory of Quantitative Economic Policy
Economics of Participation and Labor-Management Systems: Theory
Seminars in Advanced Economics

English

The English Literary Tradition
Readings in English and American Literature
Medieval Romance: The Voyage to the Otherworld
Shakespeare
Feminist Issues in Nineteenth- and Twentieth-Century Literature
Writing About the Arts at Cornell
Expository Writing
Twentieth-Century Biography
Major Nineteenth-Century Female Novelists

The Modern Novel
Modern Poetry
Twentieth-Century Southern Fiction
Folklore and Literature
Literature and Value
The Reading of Fiction
The Reading of Poetry
Introduction to Drama
The American Literary Tradition
Creative Writing

Major Periods of English Literature

Old English Literature in Translation
Middle English Literature in Translation
Renaissance Literature
Restoration and Eighteenth-Century Literature
The Eighteenth-Century English Novel
The Romantic Poets
The Victorian Period
The Early Twentieth Century (to 1914)
Modern Literature since 1914

Major English Authors

Chaucer
Shakespeare
Milton

Major Periods of American Literature

Early American Literature
The American Renaissance
The Age of Realism and Naturalism
American Literature in the Twentieth Century

Creative and Expository Writing

Narrative Writing
Verse Writing
Seminar in Writing: Autobiography
The Art of the Essay

Courses for Advanced Undergraduates

The Earlier American Novel: Brockden Brown to Henry James
The Modern American Novel
The Nineteenth-Century English Novel
Topics in Criticism: Semiotics and Cultural Criticism
Readings in the Humanities: The Sacred and the Profane
Seminar in the Theory and Practice of Translation
Evolution of Epic
The English Language
Spenser
Readings in Seventeenth-Century Poetry: Donne, Jonson, Marvell, Dryden
Poetry and Music in the English Renaissance
Milton and Romantic Poetry
The Age of Johnson
Restoration and Eighteenth-Century Drama
Wordsworth and Keats
Victorian Poetry
History of the Book
English Literature and Its Intellectual Contexts: Edwardians and After
Contemporary Fiction
Four Modern Masters: Pirandello, Brecht, Beckett, Pinter
Dickinson and Whitman
American History and the Literary Imagination
Mark Twain and Henry James
The Artist in Society: Poetry of the Sixties and Seventies
Afro-American Literature
Modern American Poetry
Modern British Fiction
History into Fiction
The Bildungsroman in English
Women and Writing: Wollstonecraft to Woolf
Reading Women Poets
Poetics for Poets and Critics
Honors Seminar I: Forms of Distance in Modern Fiction
Honors Seminar II: Poetry and Poetics: Victorian and Modern

Courses Primarily for Graduate Students

The Vikings
Theory and Practice of Translation
Beowulf
Middle English Literature
History of the English Language
Spenser
Shakespeare: The Histories and Comedies
Studies in the Eighteenth Century
Austen and Scott
The Other Romantics: DeQuincey, Hazlitt, Lamb
Romantic Masterworks

English Literature and Its Intellectual Contexts
in the Early Twentieth Century
Twain and James
Frost and Eliot
Williams and Stevens
Modern American Literature: Forms of Hope
and Despair
Conrad, Lawrence, Joyce
Freud and Literature
Semiotics and Marxist Literary Criticism

Graduate Seminars

Introduction to Research and Scholarly
Methods
Introduction to Criticism and Literary Theory
Studies in Shakespeare (The Sources)
Milton
Keats
Hardy
Woolf
Writing Seminar
Writing Seminar: Poetry
Writing Seminar: Prose

English as a Second Language

English as a Second Language
English for Non-Native Speakers

Freshman Seminar

English for Bilinguals

French

Literature

Freshman Seminar: Readings in Modern
Literature
Introduction to French Literature
Studies in French Literature
Masterpieces of French Drama I: The Classical
Era
Masterpieces of French Drama II: The Modern
Era
The Novel as Masterwork: French Novels from
Pre-Romanticism to Symbolism
The Novel in France: From the Origins to the
French Revolution
Experimental and Contemporary French
Novels: Subversion of the Novelistic Genre
from Diderot to the Present
French Poetry from the Middle Ages to
Romanticism
Masterpieces of Medieval Literature
The Baroque in France
French Classicism
Victor Hugo and the Romantic Movement
Self, Family, and Polity in Renaissance Times
From Parnassus to Surrealism
Marx in France
Special Topics in French Literature
Honors Work in French
Medieval Literature
Theater in Sixteenth-Century France
Literature and the Arts in Sixteenth-Century
France
Montaigne
The Theater of Molière
Diderot and the Enlightenment
Feminism and French Literature
Mallarmé
French Film and Literature in the Twentieth
Century
The Aesthetics of Coincidence
Old French Dialectology
Special Topics in French Literature
Medieval Seminar: The Old French Epic
Medieval Seminar: Villon
Medieval Seminar: La Roman de la Rose
Poetry and the Powers
Racine and His Critics
Seventeenth-Century Seminar
Bohemians and Dandies
The Poetics of Derrida
Memory, Creation, and the Novel

Languages and Linguistics

Intensive Elementary Course: Listening,
Speaking, Reading, Writing
Continuing French
Intermediate Course: Language and Literature
Intermediate Composition and Conversation
Intermediate French
Advanced Conversation
Advanced Composition and Conversation
History of the French Language
Applied Linguistics: French

Linguistic Structure of French
Semantic Structure of French
Composition and Style
Linguistic Structure of Old and Middle French
Contemporary Theories of French Grammar
Seminar in French Linguistics

Geological Sciences

Freshman and Sophomore Courses

Introductory Geological Sciences
Introduction to Historical Geology
Earth Science
Frontiers of Geology
Geology and the Environment
Mineral and Energy Resources and the
Environment

Junior, Senior, and Graduate Courses

Structural Geology and Sedimentation
Geomorphology
Mineralogy, Petrology, and Geochemistry
Historical Geology and Stratigraphy
Geophysics and Geotectonics
Experiments and Techniques in Earth Sciences
Petroleum Geology
Tectonics of Orogenic Zones: Modern and
Ancient
Geomechanics
The Earth's Crust: Structure, Composition, and
Evolution
Digital Processing and Analysis of Geophysical
Data
Interpretation of Seismic Reflection Data
Modern Petrology
Isotope Geology
Chemical Geology
Mineral Deposits
Invertebrate Paleontology and Biostratigraphy
Stratigraphy
Marine Tectonics
Physics of the Earth
Introduction to Geophysical Prospecting
Tectonic and Stratigraphic Evolution of
Sedimentary Basins
Petrology and Geochemistry
Coastal Geomorphology or Quaternary
Geology
Marine Geology
Sedimentary Petrology and Tectonics
Topics in Mineral Resource Studies and
Precambrian Geology
Plate Tectonics and Geology
Paleobiology
Geophysics, Exploration Seismology
Earthquakes and Tectonics
Exploration Seismology, Gravity, Magnetism
Geophysics, Seismology, and Geotectonics
Geomechanics, Gravity, Magnetism, Heat Flow
Mineralogy and Crystallography, X-ray
Diffraction, Microscopy,
High-Pressure-Temperature Experiments
Glacial and Quaternary Geology
Geotectonics
Advanced Geophysics
Seismology

Field Courses

Intercession Field Trip
Western Adirondack Field Course
Western Field Course

Germanic Studies

German Literature

Folk Literature and Folk Poetry
Kafka, Hesse, Brecht, and Mann
Introduction to German Literature
Intensive Workshop in Germanic Studies for
Freshmen
Modern Germany
Old Icelandic Literature: Eddic Poetry
Schiller
The Age of Goethe
Goethe's Faust
Romanticism
Nineteenth-Century Literature
Modern German Literature I: Contemporary
German Prose
Modern German Literature II:
Twentieth-Century Prose
Modern German Literature III: Contemporary
Literature
Lyrical Poetry
Modern German Drama in English

Nietzsche, the Man and the Artist
Topics in German Literature I: The Modern
German Novel in English Translation
Yiddish Literature in English Translation
The Shtetl in Modern Yiddish Fiction
Topics in Yiddish Literature
Introduction to Medieval German Literature
The Great Moments of German Literature
Baroque Literature
Twentieth-Century German Literature
Seminar in Old Icelandic Literature
Seminar in Medieval German Literature
The Northern Renaissance and Reformation
The Enlightenment
From Wilhelm Meister to Buddenbrooks
Goethe's Poetry
Basic Texts of Romanticism
The Romantic Novel
Jean Paul and the Eighteenth-Century
Humorous Novel
Nineteenth-Century Drama
Seminar in Realism: The Novelle
Twentieth-Century German Literature: Thomas
Mann
Modern Lyric Poetry
The Postwar German Novel
Graduate Seminar in Medieval Literature
Seminar on Richard Wagner
Tutorial in German Literature

Languages and Linguistics

Elementary Course
Continuing German
Intermediate Composition and Conversation
Advanced Composition and Conversation
Introduction to Germanic Linguistics
History of the German Language
Modern German Phonology
Modern German Syntax
German Dialectology
Runology
Applied Linguistics: German
Linguistic Structure of German
Gothic
Old Saxon, Old High German, Old Low
Franconian, Old Frisian
Structure of Old English
Topics in Historical Germanic
Topics in Historical Germanic Morphology
Topics in Historical Germanic Syntax
Old Norse
Readings in Old High German and Old Saxon
Germanic Tribal History
Elementary Reading
Seminar in Germanic Linguistics
Seminar in Comparative Germanic Linguistics
Seminar in German Linguistics
Seminar in Dutch Linguistics

Government

Introductory Courses

The Government of the United States
Introduction to Comparative Government and
Politics
Introduction to Political Theory
Introduction to International Relations

American Government and Institutions

The Impact and Control of Technological
Change
American Democracy and the Limits to Growth
Interpretation of American Politics
Power and Poverty in America
Urban Politics
Urban Affairs Laboratory
The Nature, Functions, and Limits of Law
Common Law and Lawyers in America
The American Presidency
Political Parties and Elections
The American Congress
American Political Behavior
Public Policy and Public Revenues
The "Fourth" Branch
Civil Liberties in the United States
Constitutional Politics: The United States
Supreme Court
Politics of Education
Political and Economic Power in Cities
Size of the State
Political Change in the United States
Science, Technology, and Public Policy
Government and Public Policy: An Introduction
to Analysis and Criticism

Comparative Government

Soviet Union: Politics, Economics, and Culture
Politics and Society in France and Italy
Government and Politics of the Soviet Union
Business and Labor in Politics
Cuba: Culture and Revolution
The Ethnic Dimension in Politics
Latin American Politics
Society and Politics in Central Europe
Government and Politics of Canada
Government and Politics of Southeast Asia
Politics in Contemporary Japan
Chinese Government and Politics
Politics of Industrial Societies
Political Role of the Military
Comparative Revolutions
Democracy in Britain and France
The Roots of Greek Civilization
Women and Politics
From Politics to Policy: The Political Economy
of Choice
Elites and Society: The Political Economy of
Power
Political Development in Western Europe
Politics of the Middle East
Social Movements and Politics in Industrial
Societies
The Politics of Productivity: Germany and
Japan
Politics of Decentralization and Local Reform
Comparative Communism
Policymaking in Britain and France
Politics in Contemporary Europe: The Politics
of the Left

Political Theory

Modern Ideologies: Liberalism and Its Critics
Classics in Political Thought
Liberty, Equality, and the Social Order
The Logic of Liberalism
Economic Models of Politics
Feminist Political Thought
American Political Thought
Marx
Freud
The Repressed Female in the Writings of Marx
Current Topics in Political Philosophy

International Relations

Integration in the World System
Theories of International Relations
Defense Policy and Arms Control
Contemporary American Foreign Policy
Structure and Process in the Global Political
Economy
The United States and Asia
International Law
The Foreign Policy of China
Accumulation on a World Scale
Dependencia and the State
Foreign Economic Policies of Advanced
Industrial Societies
Foreign Policy of the USSR
Imperialism and Dependency
Political and Economic Interdependence
Logic and Methods of Research in International
Relations

Political Methodology

Human and Social Statistics

Field Seminars

Scope and Method of Political Analysis
Field Seminar in Methodology
Field Seminar in American Politics
Field Seminar in Public Policy
Field Seminar in Comparative Politics
Field Seminar in International Relations
Field Seminar in Political Thought

American Government and Institutions

Supreme Court, Politics, and the Constitution
American Political Behavior
Elections and Public Policy
Capitalism, the State, and the Economy

Public Policy

Politics of Technical Decisions

Comparative Government

Comparative Theories of Decentralization
Politics of the Soviet Union
The Politics of Communalism
Politics of China
Political Anthropology: Indonesia

Political Economy of Change: Rural Development in the Third World
 Readings from Mao Zedong
 Political Problems of Southeast Asia
 Latin American Society and Politics
 Comparative Institutions and the Welfare State
 Politics in Postwar Western Europe
 Research Topics on Advanced Industrial Democracies

Political Theory

American Political Thought
 The Political Philosophy of Nietzsche
 Philosophical Foundations of Contemporary Politics
 Foundations of English Liberalism
 Modern Social Theory
 Toward a Feminist Social Theory
 Economic Models of Politics
 Greek Political Philosophy

International Relations

International Strategy
 International Relations of Asia
 The Administration of Agricultural and Rural Development

Greek

Culture

See Classics.

Literature in Translation

Freshman Seminar in Greek Literature
 The Myths of Greece and Rome
 The Greek Experience
 Greek Philosophy
 Greek Mythology
 The Ancient Epic
 Greek and Roman Historians
 Greek and Roman Drama
 Greek Foundations of Western Literature
 Ancient Wit: An Introduction to the Theory and Form of Comic and Satiric Writing in Greece and Rome.
 Genre and Period in Greek and Roman Literature

Literature in Greek

Attic Authors
 Homer
 Plato
 Greek Composition
 Greek Historians
 Greek Tragedy
 Attic Comedy
 Greek Melic, Elegiac, and Bucolic Poetry
 Plato
 New Testament Greek
 Advanced Readings in Greek Literature
 Greek Philosophy
 Graduate Seminar in Greek Literature: The Political Structure of Classical Athens
 Graduate Seminar in Greek Literature: Pindar and Choral Lyric
 Patristic Seminar
 Independent Study for Graduate Students

Language

Greek for Beginners
 Attic Greek
 Modern Greek

Hebrew

Biblical Literature

Literature of Ancient Israel
 Bible, Dead Sea Scrolls, Apocalyptic Literature
 Freshman Seminar in Biblical Literature: Heroes and Heroines of the Bible
 Readings in Classical Hebrew Literature
 Undergraduate Seminar in Biblical Literature: Prophecy in Ancient Israel

Rabbinic Literature

Evolution of Jewish Law
 Biblical Interpretation in Rabbinic Literature

Modern Hebrew Literature

Modern Hebrew Literature in Translation: The Modern Hebrew Short Story
 Readings in Classical Hebrew Literature
 The Hebrew Literary Imagination

Seminar in Modern Hebrew Literature: The Short Story
 Seminar in Modern Hebrew Literature: The Novel
 Agnon and Hazaz
 Metaphor, Modernism, and Cultural Context: The Use of Metaphor

Language

Elementary Modern Hebrew
 Elementary Classical Hebrew
 Intermediate Modern Hebrew
 Readings in Classical Hebrew Literature
 Advanced Modern Hebrew

Hindi-Urdu

Hindi-Urdu Elementary Course
 Intermediate Hindi Reading Course
 Composition and Conversation
 Readings in Hindi Literature
 Advanced Composition and Conversation
 Advanced Hindi Readings
 History of Hindi
 Seminar in Hindi Linguistics

History

Freshman Seminars

The Growth of Political Democracy in the United States
 The Family in American History
 Civil Liberties in the United States
 Topics in Science and Society in Mid-Victorian Britain
 The North Atlantic Community and the Wider World
 Seminar on American Foreign Policy
 History of North American Indians
 America in the Camera's Eye
 Introduction to Western Civilization
 The Heroic Ideal in Ancient Literature
 Revolution and Russian Society
 Foodways: A Social History of Food and Eating
 Britain and the Second World War
 Japan and the West
 China and the West Before Imperialism
 Chinese Views of Themselves

Underclass Seminars

English Constitutional History to 1600
 English Constitutional History, 1600 to the Present
 Public Life and Literature in Nineteenth-Century Great Britain
 Public Life and Literature in Twentieth-Century Great Britain
 Urban Problems and Policy in Historical Perspective

Comparative History

Early Warfare, East and West
 Death in Past Time
 Comparative Slave Systems in the Americas

History of Science

Science in Western Civilization
 Undergraduate Seminar in the History of Biology
 History of Biology
 Social History of Western Technology
 Problems in the History of Biology
 Science in Classical Antiquity
 Seminar in the History of Nineteenth-Century Physical Science

American History

Introduction to American History: From the Beginning to 1865
 Introduction to American History: From the Civil War to Recent Times
 Crime and Punishment: The American Vision from the Puritans to Mickey Spillane
 The Structure of American Political History
 History of American Foreign Policy
 Puritanism, the Enlightenment, and the Republic: American Cultural and Intellectual History to 1820
 American Intellectual and Cultural History: The Nineteenth Century
 American Constitutional Development
 The Origins of American Civilization
 Native American History
 Age of the American Revolution

Women in the American Society, Past and Present
 The United States in the Middle Period
 The American Civil War and Reconstruction
 The Urbanization of American Society
 American Social History
 Recent American History, 1920 to the Present
 The Modernization of the American Mind
 Major Themes in American Religious History
 Undergraduate Seminar in American Political History
 Motivations of American Foreign Policy
 Undergraduate Seminar in the History of the American South
 Undergraduate Seminar in American Social History
 Undergraduate Seminar in Early American History
 Undergraduate Seminar: American Indians in the Eastern United States
 Law and Authority in America: Freedom, Restraint, and Judgment
 Undergraduate Seminar in Recent American History
 Undergraduate Seminar: Deviance and Conformity in a Liberal Society
 Heritage and Memory in American Culture
 Graduate Seminar in American Foreign Relations
 Seminar in American Cultural and Intellectual History
 Seminar in Recent American Cultural History
 Seminar in American Social History
 Graduate Seminar in the History of American Women
 Seminar in Nineteenth-Century American History
 Colloquium in American History

Asian History

Introduction to Asian Civilizations
 Introduction to Asian Civilizations in the Modern Period
 Art and Society in Modern China
 History of China Up to Modern Times
 History of China in Modern Times
 Indochina and the Archipelago to the Fourteenth Century
 Southeast Asian History from the Fifteenth Century
 History of Modern Japan
 Seminar in Tokugawa Thought and Culture
 Undergraduate Seminar in Medieval Chinese History
 Self and Society in Late Imperial and Twentieth-Century China
 Chinese Historiography and Source Materials
 Problems in Modern Chinese History
 The Historiography of Southeast Asia
 Seminar in Medieval Chinese History
 Seminar in Modern Chinese History
 Seminar in Southeast Asian History

Ancient European History

Ancient Greece from Homer to Alexander the Great
 The Roman Republic
 Rome of the Caesars
 The Greek City from Alexander to Augustus
 The Tragedy of Classical Athens, 479–379 B.C.
 Crisis of the Greek City-State, 415–301 B.C.
 Roman Imperialism
 The Roman Revolution
 The High Roman Empire
 Decline and Fall of the Roman Empire
 Social and Economic History of Rome, 60 B.C. to A.D. 117
 Roman Africa
 Graduate Seminar in Ancient Classical History

Medieval, Renaissance, and Early Modern European History

English History from Anglo-Saxon Times to the Revolution of 1688
 The Earlier Middle Ages
 The High Middle Ages
 Greece in Late Antiquity and Early Byzantine Times
 Early Renaissance Europe
 The Culture of the Early Renaissance
 Introduction to the Culture of the Later Renaissance
 Medieval Culture
 Church and State During the Middle Ages
 Francis of Assisi and the Franciscans

The History of Florence in the Time of the Republic
 History of England under the Tudors and Stuarts
 War, Trade, and Empire, 1500–1815
 Law and Social Change in Early Modern England
 History of Spain and Portugal: The Golden Age and After, 1492–1700
 Undergraduate Seminar in Renaissance History
 Undergraduate Seminar in Reformation History
 Seminar in the English Civil War, 1640–1660
 The Transformation of Feudal Society
 Seminar in Latin Paleography

Modern European History

English History from the Revolution of 1688 to the Present
 The End of the Austro-Hungarian Monarchy, 1848–1918
 European Intellectual History in the Nineteenth and Twentieth Centuries
 The Old Regime: France in the Sixteenth, Seventeenth, and Eighteenth Centuries
 The Era of the French Revolution and Napoleon
 Survey of German History, 1648–1890
 Survey of German History, 1890 to the Present
 Russian History to 1800
 Russian History since 1800
 Social and Cultural History of Contemporary Europe
 Europe in the Twentieth Century
 Modern Spain and Portugal, 1700–1975
 Seminar in European Imperialism
 Lord and Peasant in Europe: A Seminar in Social History
 Seminar in Germany, 1890–1918
 Seminar in European Fascism
 Seminar in Weimar and Nazi Germany
 The Making of the English Ruling Class, 1660–1780
 Seminar in Modern European Political History
 Russian Social and Economic History
 Topics in Modern European Intellectual History
 Documenting the Depression: Film, Literature, and Memory
 The Politics of the Enlightenment
 Seminar in Eighteenth-Century French Social History
 Twentieth-Century Britain
 Seminar in Modern European Social History
 Seminar in Eighteenth-Century British History
 Seminar in Nineteenth-Century British History
 Seminar in the French Revolution
 Seminar in European Intellectual History
 Seminar in Russian History
 Seminar in Modern European Social History
 Seminar in European History

Latin American History

Colonial Latin America
 Latin America in the Modern Age
 Agrarian Societies in Latin America
 Twentieth Century Brazil
 Seminar in Latin American History

History of Art

Freshman Seminars

Freshman Seminar in Visual Analysis
 How to Look at Works of Art
 Art in a Landscape: Traditional Arts in Southeast Asia
 Principles of Architecture

Introductory Courses

Introduction to Art History: Mediterranean Archaeology
 Introduction to Art History: Rise of Classical Greece
 Introduction to Art History: Beginnings of Civilization
 Introduction to Art History: African Art
 Introduction to Art History: The Classical World
 Introduction to Art History: Minoan-Mycenaean Art and Archaeology
 Introduction to Art History: Monuments of Medieval Art
 Introduction to Art History: The Renaissance
 Introduction to Art History: The Baroque Era
 Introduction to Art History: Modern Art
 Introduction to Art History: American Art
 Introduction to Art History: Asian Traditions
 Introduction to Art History: Architecture and Environment

Intermediate Courses

Techniques and Materials: Painting
 Books, Prints, and the Graphic Image
 Archaeology of Cyprus
 Arts of the Roman Empire
 Painting in the Greek and Roman World
 Architecture in the Greek and Roman World
 Greek Vase Painting
 Greek and Roman Coins
 Greek Sculpture
 Art in Pompeii: Origins and Echoes
 Architecture of the Middle Ages
 Early Medieval Art and Architecture
 Romanesque Art and Architecture
 Gothic Art and Architecture
 Late Medieval Italian Art and Architecture
 The Culture of the Early Renaissance
 Introduction to the Culture of the Later Renaissance
 Dutch Painting in the Seventeenth Century
 French Art of the Sixteenth and Seventeenth Centuries
 European Art of the Eighteenth Century
 Major Masters of the Graphic Arts
 Modern Artists and Their Critics
 Modern Sculpture
 Art from 1940 to the Present
 Painting and Sculpture in America: 1850–1950
 American Architecture, the City, and American Thought: 1850–1950
 Art and Technology: 1850–1950
 Introduction to the Arts of China
 Buddhist Art in Asia
 The Arts of Early China
 The Arts of Japan
 Chinese Painting
 Studies in Indian and Southeast Asian Art

Seminars

Original Works of Art
 Introduction to Museums
 History of Art Criticism
 Ceramics
 Mannerism and the Early Baroque Era in Italy
 Studies in Italian Renaissance Art
 Studies in English Art
 Literature and the Arts in Sixteenth-Century France
 Classic and Romantic Art
 Studies in Modern Art
 Problems in Modern Art and Architecture
 American and European Decorative Arts from the Renaissance Period to the Early Nineteenth Century
 Seminar on American Art: 1840–1940
 The Arts in Modern China
 Ceramic Art of Asia
 Chinese Art of the T'ang Dynasty
 Studies in Chinese Painting
 Traditional Arts in Southeast Asia
 Problems in Medieval Art and Architecture
 Seminar in Renaissance Art
 Seminar in Baroque Art
 Problems in Modern Art
 Problems in Asian Art
 Methodology Seminar
 Problems of Art Criticism

Indonesian

Elementary Course
 Indonesian Reading
 Composition and Conversation
 Linguistic Structure of Indonesian
 Readings in Indonesian and Malay
 Advanced Indonesian Conversation and Composition
 Advanced Readings in Indonesian and Malay Literature
 FALCON: Intensive Course

Italian**Literature**

Introduction to Modern Italian Literature
 Italian Civilization
 Dante: La Divina Commedia
 Dante in Translation
 Boccaccio
 The Italian Renaissance
 Seventeenth-Century Prose
 Eighteenth-Century Thought
 Verga, Svevo, and Pirandello
 Nineteenth-Century Poetry: Leopardi
 Contemporary Narrative in Italy

Twentieth-Century Prose: Contemporary Italian Short Fiction
 Postwar Italy: The Film as a Cultural, Artistic, and Political Reflector
 Special Topics in Italian Literature
 Petrarch: Canzoniere
 Eighteenth-Century Theater
 The Nineteenth Century
 Verga, D'Annunzio, and Pirandello
 Futurism in Italy
 Contemporary Poetry
 Special Topics in the Divine Comedy
 The Italian Renaissance
 Contemporary Narrative in Italy
 Special Topics in Italian Literature

Languages and Linguistics

Intensive Elementary Course: Listening, Speaking, Reading, Writing
 Continuing Italian
 Composition and Conversation
 Advanced Composition and Conversation
 History of the Italian Language
 Structure of Italian
 Italian Dialectology
 Seminar in Italian Linguistics

Japanese**Culture**

Japanese Conceptions of Beauty
 Feminine and Masculine Ideals in Japanese Culture
 The Japanese Film
 Japanese No Theater
 Japanese Culture and Society
 Introduction to Japanese Economy
 Contemporary Japan
 Politics in Contemporary Japan
 Politics of Productivity: Germany and Japan
 Capitalism and Communism: Chinese and Japanese Patterns of Development
 History of Modern Japan

Literature in Translation

Japanese Poetry and Drama
 Modern Japanese Fiction
 Japanese Narrative Literature

Literature in Japanese

Introduction to Literary Japanese
 Intermediate Literary Japanese
 Seminar in Modern Literature
 Seminar in Classical Literature
 Japanese and Chinese Bibliography and Methodology

Languages and Linguistics

Intensive Elementary Course: Listening, Speaking, Reading, Writing
 Accelerated Introductory Japanese
 Japanese for Business Purposes
 Intermediate Japanese I
 Japanese Conversation
 Advanced Japanese
 Linguistic Structure of Japanese
 Oral Narration and Public Speaking
 Directed Readings
 FALCON: Intensive Japanese

Japanese

Intensive Elementary Course: Listening, Speaking, Reading, Writing
 Intermediate Course
 Directed Individual Study
 Old Japanese

Latin**Culture**

See Classics.

Literature in Translation

The Myths of Greece and Rome
 The Roman Experience
 Latin Foundations of Western Thought: Plato and His Influence
 Ancient Wit: An Introduction to the Theory and Form of Comic and Satiric Writing in Greece and Rome
 Genre and Period in Greek and Roman Literature

Literature in Latin

Catullus
 Roman Drama
 Vergil
 The Augustan Age
 Roman Satire
 Roman Philosophical Writers
 Roman Historiography
 Roman Elegy: Tibullus, Propertius, Ovid
 Readings in Cicero
 Medieval Latin Literature
 Advanced Readings in Latin Literature
 The Latin Poems of Milton
 Seminar: Horace's Epistles
 Seminar: Tacitus

Language

Latin for Beginners
 Elementary Latin
 Intensive Latin
 Latin in Review
 Intermediate Latin
 Latin Composition
 Late Latin
 Advanced Latin Composition

Linguistics

Theory and Practice of Linguistics
 Themes in Linguistics
 Phonetics
 Instrumental Phonetics
 Language and the Sexes
 Multilingual Societies and Cultural Policy
 Phonology
 Morphology
 Functional Syntax
 Dialectology
 The Structure of English
 English for Teachers of English
 Teaching English as a Foreign Language
 Style and Language
 Introduction to Comparative Semitic Linguistics
 India as a Linguistic Area
 Language: A Functional and Semiotic System
 Language Typology
 Contrastive Analysis
 Applied Linguistics and Second Language Acquisition
 Comparative Methodology
 Sociolinguistics
 Historical Linguistics: Methods and Approaches
 Transformational Grammar: Syntax and Semantics
 Generative Phonology
 Social Functions of Language
 History of the English Language
 Linguistics Semantics
 Dravidian Structures
 Indo-Aryan Structure
 Field Methods
 Proseminar: Introduction to Graduate Study
 History of Linguistics
 Schools of Linguistics
 Discourse Analysis
 Topics in Transformational Grammar
 Hittite
 Comparative Indo-European Linguistics
 Elementary Pali
 Elementary Sanskrit
 Old Javanese
 Seminar in Southeast Asian Linguistics
 Seminar in Malayo-Polynesian Linguistics
 Seminar in Austroasiatic Linguistics
 Comparative Slavic Linguistics
 Thai Dialectology
 Comparative Thai
 Tibeto-Burman Linguistics

Mathematics**Basic Sequences**

Mathematics for Architects
 Finite Mathematics for Biologists
 Calculus for Biologists
 Finite Mathematics
 Introduction to Calculus
 Precalculus Mathematics
 Calculus
 Calculus for Engineers
 Introduction to Differential Equations
 Differential Equations
 Vector Analysis
 Infinite Series and Complex Numbers

Linear Algebra and Calculus
 Calculus
 Engineering Mathematics

General Courses

History of Mathematics
 Development of Modern Mathematical Thought

Applied Mathematics and Differential Equations

Mathematics in the Real World
 Applicable Mathematics
 Numerical Solutions of Differential Equations
 Introduction to Ordinary Differential Equations
 Introduction to Partial Differential Equations

Analysis

Elementary Analysis
 Introduction to Analysis
 Introduction to the Theory of Functions of One Complex Variable

Algebra

Linear Algebra
 Algebra and Number Theory
 Applicable Algebra
 Introduction to Algebra

Geometry and Topology

Classical Geometries
 Introduction to Topology
 Introduction to Differential Geometry

Probability and Statistics

Elementary Statistics
 Basic Probability
 Statistics
 Further Topics in Statistics

Mathematical Logic

Elementary Mathematical Logic

Graduate Courses

Real and Complex Analysis
 Mathematical Methods in Physics
 Ordinary Differential Equations
 Partial Differential Equations
 Elementary Functional Analysis
 Applied Functional Analysis
 Analysis of Numerical Methods for Partial Differential Equations
 Algebra
 Elementary Number Theory
 Lie Groups and Differential Geometry
 Introductory Algebraic Topology
 Differentiable Manifolds
 Geometric Topology
 Probability Theory
 Probability and Statistics
 Experimental Design, Multivariate Analysis
 Sequential Analysis, Multiple Decision Problems
 Nonparametric Statistics
 Logic
 Seminar in Analysis
 Functional Analysis
 Fourier Analysis
 Riemann Surfaces
 Several Complex Variables
 Seminar in Partial Differential Equations
 Seminar in Algebra
 Topics in Algebra
 Algebraic Number Theory
 Homological Algebra
 Seminar in Topology
 Algebraic Topology
 Advanced Topology
 Seminar in Geometry
 Algebraic Geometry
 Topics in Statistics
 Seminar in Probability and Statistics
 Multivariate Analysis
 Statistical Decision Theory
 Stochastic Processes
 Seminar in Logic
 Model Theory
 Recursion Theory
 Metamathematics
 Set Theory
 Supervised Reading and Research

Music

Freshman Seminars

Sound, Sense, and Ideas
 Contemporary Music
 The Art of Music
 Introduction to the Musics of the World
 Elementary Musicianship
 Music Theory
 Elementary Tonal Theory
 Theory and Practice of Gamelan
 Intermediate Tonal Theory
 Advanced Tonal Theory
 Materials of Twentieth-Century Music
 Counterpoint
 Form and Analysis
 Orchestration
 Electronic Music Composition
 Orchestral Conducting
 Choral Conducting
 Choral Style

Music History

Chopin, Chaikovsky, Musorgskii
 History of Jazz
 Popular Music
 Opera
 Baroque Instrumental
 Music of the Baroque Period
 Music of the Classical Period
 Music of the Romantic Era
 Debussy to the Present
 Music and Poetry in France: Late Middle Ages
 and Renaissance
 Mozart, His Life, Works, and Times
 Music of the Baroque Period
 Music of the Classical Period
 Music of the Romantic Era
 The Study of Non-Western Musics
 Poetry and Music in the English Renaissance
 Music in Western Europe to Josquin Des Pres
 Josquin Des Pres to Monteverdi

Musical Performance

Individual Instruction in Voice, Organ,
 Harpischord, and Piano, and String,
 Woodwind, and Brass Instruments

Musical Organizations and Ensembles

Sage Chapel Choir
 Cornell Chorus or Glee Club
 Cornell Orchestra
 University Bands
 Chamber Music Ensemble
 Chamber Singers
 Cornell Gamelan Ensemble
 Collegium Musicum
 Eighteenth-Century Orchestra

Graduate Courses

Introduction to Bibliography and Research
 Topics in Theory and Analysis
 Composition
 Debussy to the Present
 Music and Poetry in France: Late Middle Ages
 and Renaissance
 Mozart: His Life, Works, and Times
 Seminar on Richard Wagner
 Introduction to Ethnomusicology
 Seminar in Medieval Music
 Seminar in Renaissance Music
 Seminar in Baroque Music
 Seminar in Music of the Classical Period
 Seminar in Music of the Romantic Era
 Performance Practice
 History of Music Theory
 Liturgical Chant in the West
 Music and Poetry in France: Late Middle Ages
 and Renaissance
 Twentieth-Century Classics
 Rhythms
 Analysis of Structure and Function in Tonal
 Music

Near Eastern Studies

Ancient Near Eastern Literature

Ancient Near Eastern Literature
 Folklore in the Ancient Near East

History of the Jewish People

History of Ancient Israel to 450 B.C.E.
 Jews of the Ancient and Muslim Near East:
 450 B.C.E.–1204 C.E.

The Emergence of the Modern Jew: 476–1948
 The Jewish Community Throughout History
 Age of the Patriarchs
 Judaism and Christianity in Conflict
 Seminar in Jewish History: The Medieval
 Church and the Jews

History of Ancient Near Eastern Civilizations

Interconnections in the Eastern Mediterranean
 World in Antiquity
 History and Archaeology of Ebla
 History and Culture of Ancient Mesopotamia
 History of the Ancient Near East in Biblical
 Times
 The Roots of Greek Civilization

Islamic Studies

Islamic Civilization
 Jews of the Ancient and Muslim Near East:
 450 B.C.E.–1204 C.E.
 Studies in the Popular and Courtly Literatures
 of the Islamic Middle East
 Islamic Law and Society

Philosophy

Introductory Courses

Freshman Seminar in Philosophy
 Introduction to Philosophy
 Logic: Evidence and Argument
 Ancient Thought
 Ancient Philosophy
 Modern Philosophy
 Existentialism
 Philosophical Issues in Christian Thought
 Formal Logic
 Ethics
 Social and Political Theory
 Aesthetics
 Biomedical Ethics
 Environmental Ethics
 Knowledge and Reality
 Philosophy of Mind
 Religion and Reason
 Science and Human Nature

Intermediate Courses

Plato
 Aristotle
 Modern Rationalism
 Modern Empiricism
 Medieval Philosophy
 Topics in Ancient Philosophy
 Special Topics in the History of Philosophy
 Kant
 Hegel
 Twentieth-Century Philosophy
 Philosophy of Marx
 Introduction to Formal Logic
 Ethical Theory
 Law, Society, and Morality
 Metaphysics and Epistemology
 Topics in the Philosophy of Religion
 Philosophy of Science
 Philosophy and Psychology
 Philosophy of Choice and Decision
 Philosophy of Mathematics
 Social Theory
 Philosophy of History

Advanced Courses and Seminars

Plato and Aristotle
 Deductive Logic
 Philosophy of Logic
 Intensional Logic
 Problems in the Philosophy of Language
 Ethics and the Philosophy of Mind
 Topics in Aesthetics
 Contemporary Legal Theory
 Metaphysics
 Theory of Knowledge
 Problems in the Philosophy of Science
 Special Studies in Philosophy
 Ancient Philosophy
 Medieval Philosophy
 Modern Philosophers
 History of Philosophy
 Logic
 Semantics
 Philosophy of Language
 Ethics and Value Theory
 Theory of Knowledge
 Philosophy of Mind

Metaphysics
 Philosophy of Science
 Philosophy of Social Science

Physics

General Physics
 Physics I: Mechanics and Heat
 Great Ideas of Physics
 Physics in the World Around Us
 The Physics of Space Exploration
 Physics of Musical Sound
 Reasoning about Luck
 Fundamentals of Physics
 Physics II: Electricity and Magnetism
 Physics III: Optics, Waves, and Particles
 Intermediate Experimental Physics
 Phenomena of Microphysics
 Analytical Mechanics
 Electricity and Magnetism
 Electromagnetic Waves and Physical Optics
 Modern Experimental Optics
 Thermodynamics and Statistical Physics
 Introductory Electronics
 Informal Advanced Laboratory
 Advanced Experimental Physics
 Introductory Theoretical Physics
 Introductory Quantum Mechanics
 Nuclear and High-Energy Particle Physics
 Introductory Solid-State Physics
 Physics of Macromolecules
 Special Topics Seminar
 Design of Electronic Circuitry
 Advanced Experimental Physics
 Projects in Experimental Physics
 Classical Mechanics
 General Relativity
 Classical Electrodynamics
 Statistical Mechanics
 Quantum Mechanics
 Experimental Atomic and Solid-State Physics
 Experimental High-Energy Physics
 Solid-State Physics
 High-Energy Particle Physics
 Advanced Quantum Mechanics
 Quantum Field Theory
 Statistical Physics
 Theory of Many-Particle Systems
 High-Energy Phenomena
 Topics in Theoretical Astrophysics
 Theory of Stellar Structure and Evolution

Polish

Intensive Elementary Course I and II:
 Listening, Speaking, Reading, Writing

Portuguese

Intensive Elementary Course: Listening,
 Speaking, Reading, Writing
 Intermediate Composition and Conversation
 Advanced Composition and Conversation
 Readings in Luso-Brazilian Culture
 Seminar in Portuguese Linguistics

Psychology

Introduction to Psychology: The Frontiers of
 Psychological Inquiry
 Introduction to Psychology: Biopsychology
 Understanding Personality and Social Behavior
 Thought and Intelligence
 Introduction to Psychology as a Laboratory
 Science
 Perception
 Psychology in Business and Industry
 Motivation Theory: Contemporary Approaches
 and Applications
 Developmental Psychology
 Introduction to Cognitive Psychology
 Language and Communication
 Introduction to Personality Psychology
 Psychology of Sex Roles
 Introduction to Social Psychology
 Social Psychological Theories and Applications
 Conformity and Deviance
 Learning
 Visual Perception
 Chemosensory Perception
 Perceptual Learning
 Development of Perception and Attention
 Perceptual and Cognitive Processes
 The Social Psychology of Language
 Auditory Perception
 Hormones and Behavior

Introductory Psychopathology
 Biopsychology of Animal Behavior
 Fieldwork in Psychopathology and the Helping
 Relationship
 Afro-American Perspectives in Experimental
 Psychology
 Psychology of Visual Communications
 Statistics and Research Design
 Biochemistry and Human Behavior
 Person Perception and Impression
 Management
 Social Interaction
 Cross-cultural Psychology
 Theories of Personality
 Human Ethology
 Introduction to Sensory Systems
 Current Research on Psychopathology
 Selected Issues in Human Motivation
 Memory and Human Nature
 Psychology of Language
 Developmental Biopsychology
 Brain and Behavior
 Seminar and Practicum in Psychopathology
 Language Development
 Human Behavior Genetics
 Sleep and Dreaming
 The Politics of IQ
 Research Contours of Black Psychology
 Quasi-experimentation
 Mathematical Psychology
 Seminar: The Examined Self—A
 Psychohistorical View
 American Madness
 Psychotherapy: Its Nature and Influence
 Undergraduate Research in Psychology
 Statistical Methods in Psychology
 Analysis of Nonexperimental Data
 Representation of Structure in Data
 The General Linear Model
 Psychometric Theory
 Advanced Social Psychology
 Death and Dying
 Socialization and Maturity
 Individual Differences and Psychological
 Assessment
 Interpersonal and Social Stress and Coping
 History and Systems of Psychology

Advanced Courses and Seminars

Practicum in Article Writing
 Perception
 Visual Perception
 Learning
 Motivation
 Language and Thinking
 Psycholinguistics
 Cognition
 Psychobiology
 Topics in Perception and Cognition
 Physiological Psychology
 Mathematical Psychology
 History of Psychology
 Animal Behavior
 Statistical Methods
 Psychological Tests
 Topics in Psychopathology and Personality
 Methods in Social Psychology
 Methods of Child Study
 Human Development and Behavior
 Experimental Social Psychology
 Sociocultural Stress, Personality, and Somatic
 Pathology
 Proseminar in Social Psychology
 Social Structure and Personality
 Interpersonal Interaction
 Personality
 Social Change, Personality, and Modernization
 Educational Psychology
 Teaching of Psychology
 Improvement of College Teaching
 How to Generate Stimuli and Control
 Experiments with a Small Computer
 General Research Seminar
 Seminar on Obesity and Weight Regulation
 Social Psychology
 Seminar in Interaction
 Seminar: Self and Identity
 Sex Differences and Sex Roles
 Nutrition and Behavior
 Research in Biopsychology
 Research in Human Experimental Psychology
 Research in Social Psychology and Personality
 Research in Clinical Neuropsychology

Summer Session Courses

Introduction to Psychology: The Frontiers of Psychological Inquiry
 Introduction to Psychology: The Cognitive Approach
 Introduction to Psychology: Personality and Social Behavior
 Developmental Psychology
 Introduction to Linguistics and Psychology
 Interpersonal Relations and Small Groups
 Nonverbal Behavior and Communication
 Introductory Psychopathology
 Social Psychology
 Theories of Personality
 Psychotherapy: Its Nature and Influence
 Psychological Testing

Quechua

Intensive Elementary Course: Listening, Speaking, Reading, Writing
 Intermediate Course
 Seminar in Quechua Linguistics

Romanian

Intensive Elementary Course I and II:
 Listening, Speaking, Reading, Writing

Romance Studies**Literature**

The Picaresque Novel in a European Perspective

Language and Linguistics

History of the Romance Languages
 Comparative Romance Linguistics
 Area Topics in Romance Linguistics
 Problems and Methods in Romance
 Romance Dialectology

Russian**Culture**

Themes from Russian Culture
 The Soviet Union: Politics, Economics, and Culture

Literature

Freshman Seminar: Classics of Russian Thought and Literature
 Freshman Seminar: Nineteenth-Century Russian Literary Masterpieces
 Freshman Seminar: Twentieth-Century Russian Literary Masterpieces
 Freshman Seminar: Revolution in the Russian Arts
 Freshman Seminar: Literature and Society in Russia: 1840–1905
 Readings in Russian Literature
 Themes from Russian Culture
 Intellectual Background of Russian Literature, 1825–1930
 Russian Poetry
 Russian Theater and Drama
 Gogol
 Tolstoy and the Disciplines
 The Russian Novel in Translation
 Soviet Literature in Translation
 Dostoevsky
 Chekhov
 The Russian Connection
 Fairytale and Narrative
 Russian Prose Fiction
 Pushkin
 Supervised Reading in Russian Literature
 Tolstoy's War and Peace and Children's Stories: Thematic Invariance and Plot Structure
 The Modern Arts in Russia, 1890–1925
 Russian Stylistics
 Russian Literature from the Beginnings to 1700
 Eighteenth-Century Literature
 Russian Romanticism
 Russian Realism
 Seminar in Nineteenth-Century Russian Literature
 Seminar in Twentieth-Century Russian Literature
 Proseminar: Problems of Literary Criticism

Languages and Linguistics

Intensive Elementary Course: Listening, Speaking, Reading, Writing
 Continuing Russian
 Composition and Conversation
 Advanced Russian Morphology and Syntax
 Advanced Composition and Conversation
 Directed Individual Study
 History of the Russian Language
 Linguistic Structure of Russian
 Old Church Slavonic
 Old Russian
 Seminar in Slavic Linguistics

Serbo-Croatian

Intensive Elementary Course I and II:
 Listening, Speaking, Reading, Writing

Sinhala (Sinhalese)

Intensive Elementary Course: Listening, Speaking, Reading, Writing
 Intermediate Sinhala Reading Course
 Composition and Conversation

Sociology

Introduction to Sociology
 Myth and Image in Modern Society
 Introduction to Sociology: Conflict and Cooperation
 Society, Industry, and the Individual
 Introduction to Sociology: Applications to Policy
 Introduction to Sociology: Urban Society
 Ideology and Social Concerns
 Population Problems
 Personality and Social Change
 Social Welfare in Europe and North America
 Family
 Inequality in America
 Public Opinion
 Sociology of Science and Technology
 Hispanic Americans
 Introduction to Social Psychology
 Social Psychological Theories and Applications
 Sociology of War and Peace
 Field and Laboratory Techniques in Sociology
 Evaluating Statistical Evidence
 Sociological Analysis of Organizations
 Sociology of Law
 Prisons and Other Institutions of Coercion
 Social and Political Studies of Science
 Contemporary Sociology for Scientists and Engineers
 Medical Sociology
 Race and Ethnicity
 Criminology
 After the Revolution: Mexico and Cuba
 Twentieth-Century Brazil
 Economics, Population, and Development
 Social Interaction
 Multivariate Analysis with Quantitative Data
 Categorical Data Analysis
 Policy Research
 Social Demography
 Techniques of Demographic Analysis
 Human Fertility in Developing Nations
 Educational Institutions
 Structure and Functioning of American Society
 Law and Social Theory
 Religion and Secularism in Western Society
 Society and Consciousness
 Seminar: Attitude Theory
 Advanced Social Psychology
 Socialization and Maturity
 Interpersonal and Social Stress and Coping
 Research Practicum in Socialization

Graduate Seminars

Organizational Behavior
 Analysis of Data with Measurement Error
 Population Policy
 Social Organization and Change
 Social Structure and Personality
 Growth of the World Capitalist-Industrial System
 Research Seminar in Population
 Social Networks
 History and the Life Course
 Seminar in Field Research
 Social Interaction
 Sex Differences and Sex Roles
 Seminar: Social Stratification

Spanish**Literature**

Freshman Seminar: The Idea of Quest
 Freshman Seminar: Parents and Children
 Introduction to Hispanic Literature
 Spanish Civilization
 Readings in Sixteenth and Seventeenth-Century Hispanic Literature
 Readings in Modern Spanish Literature
 Readings in Spanish-American Literature
 Latin American Civilization
 Modern Drama in Spanish America
 The Spanish-American Short Story
 Popular Culture in Contemporary Spanish-American Prose Fiction
 Spanish Drama of the Golden Age
 The Picaresque Novel in a European Perspective
 Spanish Lyric Poetry of the Golden Age
 The Birth of the Novel in Spain: Toward Don Quixote
 The Nineteenth-Century Spanish Novel
 Form and Formlessness in the Novel of the Generation of 1898
 Sociology and Literature in Twentieth-Century Spain
 The Post-Civil War Drama in Spain
 The Post-Civil War Novel in Spain
 Modern Hispanic Poetry
 Special Topics in Hispanic Literature
 Medieval Literature
 Medieval Literature 1300–1508
 The Early Spanish Love Lyric: Origins to 1700
 Being, God, Mind: Humanistic Revolutions
 From Plato and Vico
 The Rhetoric of Honor
 Cervantes: Don Quixote
 Colonial Spanish-American Literature: Sor Juana, Ruiz de Alarcón, Inca Garcilaso
 Eighteenth- and Nineteenth-Century Spanish Drama
 Hispanic Romanticism
 The Theatre of Garcia Lorca
 Resonances of the Quixote in the Modern Hispanic Novel
 Principles of Aesthetic and Literary Criticism
 Special Topics in Hispanic Literature
 Gongora and Quevedo
 Seminar in Nineteenth-Century Spanish Literature: Galdos
 Carlos Fuentes
 Ortega Y Gasset's *The Dehumanization of Art and Ideas of the Novel*

Languages and Linguistics

Intensive Elementary Course: Listening, Speaking, Reading, Writing
 Continuing Spanish
 Intermediate Composition and Conversation
 Advanced Composition and Conversation
 Advanced Conversation and Pronunciation
 Advanced Composition
 History of the Spanish Language
 Applied Linguistics: Spanish
 The Grammatical Structure of Spanish
 Hispanic Dialectology
 Linguistic Structure of Ibero-Romance
 Contemporary Theories of Spanish Phonology
 Contemporary Theories of Spanish Grammar
 Seminar in Spanish Linguistics

Tagalog

Intensive Elementary Course: Listening, Speaking, Reading, Writing
 Intermediate Tagalog Reading Course
 Linguistic Structure of Tagalog

Tamil

Intensive Elementary Course: Listening, Speaking, Reading, Writing

Telugu

Intensive Elementary Course: Listening, Speaking, Reading, Writing
 Intermediate Telugu Reading Course
 Linguistics

Thai

Intensive Elementary Course: Listening, Speaking, Reading, Writing
 Intermediate Thai Reading Course
 Composition and Conversation
 Advanced Thai
 Thai Literature
 Directed Individual Study

Theatre Arts**Freshman Seminars**

Modern Drama and Modern Production
 Tragedy and Comedy
 Script and the Stage

Acting

Introduction to Acting
 Acting I—Basic Technique
 Acting II—Characterization
 Acting III—Style
 Introduction to Voice and Speech for Performance
 Voice and Speech for Performance
 American Mime Orientation
 Stage Movement and Combat
 Dramatic Text Analysis
 Rehearsal and Performance
 Acting Technique
 Voice Technique
 Speech Technique

Directing

Directing
 Projects in Directing

Theatre Design and Technology

Fundamentals of Theatre Design and Technology
 Visual Concepts for the Theatre
 Production Concepts for the Theatre
 History of Visual Style for the Theatre
 Lighting Design and Technology
 Production Concepts for the Theatre
 Advanced Lighting Design and Technology
 Scene Design and Technology
 Advanced Scene Design and Technology
 Costume Design and Technology
 Advanced Costume Design and Technology
 Sound Design and Technology
 Stage Management
 Design Studio
 Design Techniques Studio
 Lighting Techniques
 Scenic Techniques
 Costume Techniques
 Costume Technology

Theatre Laboratories

Rehearsal and Performance
 Production Laboratory I–VII

Playwriting

Playwriting
 Advanced Playwriting

Theatre History, Literature, and Theory

Introduction to the Theatre
 Classic and Renaissance Drama
 European Drama, 1660 to 1900
 Modern Drama
 History of the Theatre
 American Drama and Theatre
 English Drama
 Play and Period
 Shakespeare: King Lear and the Stages of History
 Theatre and Society
 Theory of the Theatre and Drama
 Ibsen and Chekhov
 Critical Writing Workshop
 Seminar in Theatre History
 Seminar in Dramatic Criticism
 Seminar in Dramatic Theory
 Seminar in Theory of the Theatre
 Tragedy: Philosophy and Theory
 Seminar in the Theories of Directing
 Introduction to Research and Bibliography in Theatre Arts
 Thesis and Special Problems in Drama and the Theatre

Dance

Introduction to Dance
Contemporary Composers and Choreographers
Beginning Dance Composition and Music Resources
Intermediate Ballet Technique
Intermediate Modern Dance Technique
Asian Dance and Dance Drama
High Intermediate Modern Dance Technique
Advanced Dance Composition
Physical Analysis of Movement
History of Dance
Human Biology for the Performing Arts
Historical Dances
Individual Problems in Composition
Seminar in History of Dance

Cinema

Introduction to Film Analysis: Meaning and Value
History and Theory of the Commercial Narrative Cinema
History and Theory of Documentary and Experimental Film
Fundamentals of 16-mm Filmmaking
Russian Film of the 1920s and French Film of the 1960s
International Documentary Film from 1945 to the Present
Seminar in the Cinema
Intermediate Film Projects

Turkish

Introduction to the Turkish Language

Ugaritic

Ugaritic

Ukrainian

Intensive Elementary Course: Listening, Speaking, Reading, Writing

Vietnamese

Intensive Elementary Course: Listening, Speaking, Reading, Writing
Intermediate Vietnamese Reading Course
Composition and Conversation
Advanced Vietnamese
Vietnamese Literature
Directed Individual Study

Yiddish**Literature**

The Shtetl in Modern Yiddish Fiction
Topics in Yiddish Literature
Metaphor, Modernism, and Cultural Context: The Use of Metaphor

Language

Elementary Yiddish

Special Programs and Interdisciplinary Studies**Biology and Society**

Biology and Society I: The Biocultural Perspective
Biology and Society II: Biology, Society, and Human Values
Biomedical Ethics
Environmental Ethics
Senior Seminar: Human Fertility in Developing Nations
Senior Seminar: Biomedical Research, Regulations, and Ethics: A Delicate Balance

Society for the Humanities

Freshman Seminar: Science as Literature
Law and Social Change in Early Modern England
Renaissance Spectating: Audience as Artifice
The Gothic Novel
The Confession: Rhetoric and Morality

The Role of Literature as Presented in Post–1945 Chinese Writing
Cog or Scout: Functional Concepts of Socialist Literature
Conventions of Expression in Renaissance Art
Nineteenth-Century French Realism and Modern Discourse Theory
The Reception of the Idea of the Woman in the Late Nineteenth Century
Music in Society in Western Europe in the Second Half of the Eighteenth Century
The Symphonies of Mozart
Nietzsche: Aspects of His Reception
The Interpretation of J. S. Bach's Keyboard Music

Women's Studies

Freshman Seminar: Writing as Women
Freshman Seminar: Feminine and Masculine Ideals in Japanese Culture
Freshman Seminar: The Family in American History
The Biological Basis of Sex Differences
The Historical Development of Women as Professionals, 1800–1980
Language and the Sexes
Major Nineteenth-Century Female Novelists
Feminist Issues in Nineteenth- and Twentieth-Century Literature
Psychology of Sex Roles
Psychological Anthropology
The Anthropology of Women
Women in American Society, Past and Present
Women and Politics
Special Problems in the Anthropology of Women
Undergraduate Seminar in Early American History
Dickinson and Whitman
Women and Writing
Reading Woman Poets
Feminism and French Literature
Seminar in the History of American Women
Seminar in Family Studies: The History of the American Family
Seminar in Sex Differences, Sex Roles, and Sexuality
Virginia Woolf

Division of Biological Sciences**General Courses**

Biological Sciences, Lectures and Laboratory
Introductory Biology
Interactive Computing for Students of Biological Sciences
Biology for Nonmajors
Special Studies in Biology
History of Biology
Biomedical Ethics
Environmental Ethics
Biological Discovery Laboratory
Laboratory Methods in Biology
Biology and Society I: The Biocultural Perspective
Biology and Society II: Biology, Society, and Ethics
Basic Immunology
Techniques in Animal Handling and Surgery
Undergraduate Research in Biology
Introduction to Scanning Electron Microscopy
Electron Microscopy for Biologists
Advanced Electron Microscopy for Biologists
X-Ray Elemental Analysis in Biology

Animal Physiology and Anatomy

Invertebrate Zoology
Biological Basis of Sex Differences
The Vertebrates
Introductory Animal Physiology
Anatomy and Behavior of the Gull
Histology: The Biology of the Tissues
Ecological Animal Physiology
Cellular Physiology
Biological Rhythms with a Period of One Day to One Year
Seminar in Anatomy and Physiology
Motor Physiology
Special Histology: The Biology of the Organs
Vertebrate Morphology
General Animal Physiology: A Quantitative Approach

Comparative Physiology of Reproduction of Vertebrates
Mammalian Physiology
Mammalian Neurophysiology
Nutrition and Physiology of Mineral Elements
Radioisotopes in Biological Research
Applied Electrophysiology
Biological Membranes and Nutrient Transfer
Lipids
Molecular Mechanisms of Hormone Action
Graduate Research in Animal Physiology and Anatomy

Neurobiology and Behavior

Neurobiology and Behavior
Hormones and Behavior
Biopsychology Laboratory
Vision
Introduction to Sensory Systems
Seminar in Neurobiology and Behavior
Comparative Vertebrate Ethology
Animal Communication
Animal Social Behavior
Vertebrate Social Behavior
Principles of Neurobiology
Neuropharmacology
Cellular Neurobiology
Neurochemistry
Chemical Communication
Behavioral Neurogenetics
Quantitative Approaches to Animal Behavior
Field Methods in Animal Behavior
Developmental Neurobiology
Behavioral Neurophysiology
Physiological Optics
Neuroelectric Systems
Seminar in Advanced Topics in Neurobiology and Behavior
Graduate Seminar in Vertebrate Social Behavior

Biochemistry and Cell Biology

Orientation Lectures in Biochemistry
Some Applications of Biochemistry to Medicine and Agriculture
Principles of Biochemistry
Principles of Biochemistry, Individualized Instruction
Principles of Biochemistry
Basic Biochemical Methods
Survey of Cell Biology
Cell Structure and Physiology
Undergraduate Biochemistry Seminar
Cell Proliferation and Oncogenic Viruses
Molecular Biology of Yeast
Protein Structure and Function
Bioenergetics and Membranes
Biosynthesis of Macromolecules
Biochemistry of the Vitamins and Coenzymes
Metabolic Regulation
Vertebrate Biochemistry
Intermediate Biochemical Methods
Current Topics in Biochemistry
Intracellular Protein Degradation
Regulation of Membrane Transport in Microorganisms
Unusual Genetic Events
Lipids in Biomembranes
Biochemistry of Inborn Errors of Carbohydrate Metabolism
Monosaccharides and Oligosaccharides: Structure-Reactivity Relationships
Genetic Engineering Applied to Plant Cells
Chloroplast Biogenesis
Chemical Carcinogenesis
Biochemistry Seminar
Advanced Biochemical Methods
Research Seminar in Biochemistry

Botany

Plant Biology
Plant Physiology
Plants and Human Affairs
Poisonous Plants
Taxonomy of Cultivated Plants
Taxonomy of Vascular Plants
Plant Anatomy
Field Phycology
Cytology
Phycology
Taxonomy and Evolution of Vascular Plants
Comparative and Developmental Morphology of the Embryophyta

Photosynthesis
Cytogenetics
Plant Evolution and the Fossil Record
Topics in Ultrastructure of Plant Cells
Plant Physiology, Advanced Laboratory Techniques
Plant Growth and Development
Families of Tropical Flowering Plants
Families of Tropical Flowering Plants: Field Laboratory
Seminar in Systematic Botany
Plant Biochemistry
Transport of Solutes and Water in Plants
Quantitative Whole-Plant Physiology
Botanical Latin
Plant Nomenclature
Topics in Paleobotany
Literature of Taxonomic Botany
Plant Biology Seminar
Graduate Research in Botany
Current Topics in Plant Physiology

Ecology, Systematics, and Evolution

Introductory Ecology
The Vertebrates
General Ecology
Chemical Oceanography in the Field
Field Marine Science for Teachers
Field Marine Science
Underwater Research
Insect Ecology
Oceanography
Limnology
Plant Ecology
Chemical Ecology
Systems Ecology
Undergraduate Ecology Seminar
Mammalogy
Herpetology
Ornithology
Biology of Fishes
Organic Evolution
Mathematical Ecology
Seminar in Coevolution between Insects and Plants
Limnology Seminar
Marine Ecology
Topics in Theoretical Ecology
Plant Ecology Seminar
Graduate Seminar in Vertebrate Biology
Ichthyology
Special Topics in Evolution and Ecology
Seminar in Population and Community Ecology
Autecology
Population Ecology
Community Ecology
Ecosystems
Population Biology of Health and Disease

Courses Offered in Cooperation with the Sea Education Association (SEA)

SEA Semester
SEA Introduction to Marine Science
SEA Man and the Sea
SEA Introduction to Nautical Science
SEA Marine Science Laboratory
SEA Nautical Science Laboratory

Genetics and Development

Genetics
Human Genetics
Invertebrate Embryology
Developmental Biology
Vertebrate Development Anatomy
Population Genetics
Molecular Aspects of Development
Molecular Evolution
Microbial Genetics
Immunogenetics
Genetics of Lower Eucaryotes
Current Topics in Genetics

College of Engineering

Division of Basic Studies

Engineering Basic Studies

Introduction to Computer Programming
Engineering Perspectives
Mass and Energy Balances
Mechanics of Solids
Dynamics
The Physics of Life
Introduction to Electrical Systems
Computers and Programming
The Physics of Energy
Thermodynamics
Introduction to Digital Systems
Introductory Engineering Probability
Introduction to Mechanical Properties of Materials
Introduction to Electrical Properties of Materials
Basic Engineering Probability and Statistics
Numerical Methods

Applied and Engineering Physics

The Physics of Life
The Physics of Energy
Contemporary Topics in Applied Physics
Introduction to Nuclear Science and Engineering
Mechanics of Particles and Solid Bodies
Intermediate Electromagnetism
Intermediate Electrodynamics
Introductory Quantum Mechanics
Electronic Circuits
Physics of Atomic and Molecular Processes
Statistical Thermodynamics
Continuum Physics
Informal Study in Engineering Physics
Photosynthesis
Introduction to Plasma Physics
Advanced Plasma Physics
Plasma Astrophysics
Low-Energy Nuclear Physics
Vision
Nuclear Reactor Theory
Special Topics in Biophysics
Membrane Biophysics
Modern Physical Methods in Macromolecular Structure Determination
Molecular Energy Transfer
Electron Optics
Nuclear Engineering
Nuclear Engineering Design Seminar
Seminar on Thermonuclear Fusion Reactors
Intense Pulsed Electron and Ion Beams:
Physics and Technology
Nuclear Measurements Laboratory
Advanced Nuclear and Reactor Laboratory
Microcharacterization
Microprocessing of Materials
Special Topics in Applied Physics
Topics in Statistical Physics
Principles of Diffraction
Special Topics Seminar in Applied Physics
Kinetic Theory
Physics of Solid Surfaces and Interfaces

Chemical Engineering

Mass and Energy Balances
Chemical Engineering Thermodynamics
Materials
Reaction Kinetics and Reactor Design
Industrial Organic Chemical Processes
Introduction to Rate Processes
Analysis of Separation Processes
Chemical Engineering Laboratory
Project Laboratory
Transport Phenomena
Chemical Process Evaluation
Chemical Process Synthesis
Process Equipment Design and Selection
Design of Chemical Reactors and Multiphase Contracting Systems
Design Project
Computer-Aided Process Design
Special Projects in Chemical Engineering
Phase Equilibria
Petroleum Refining
Synthetic Fuels
Nuclear Chemical Engineering
Polymeric Materials

Physical Polymer Science
Polymeric Materials Laboratory
Microbial Engineering
Controlled Cultivation of Microbial Cells
Wastewater Engineering in the Process Industries
Polymer Processes
Numerical Methods in Chemical Engineering
Air Pollution Control
Process Control
Process Control Laboratory
Applied Surface Chemistry and Physics
Chemical Microscopy
Electron Microscopy
Advanced Chemical Microscopy
Laboratory in Optical Crystallography
Research Project
Advanced Chemical Engineering
Thermodynamics
Applied Chemical Kinetics
Advanced Transport Phenomena
Mathematical Methods of Chemical Engineering Analysis
Theory of Molecular Liquids
Advanced Seminar in Thermodynamics

Civil and Environmental Engineering:

Environmental Sensing, Measurement, and Evaluation

Surveying for Civil and Environmental Engineering Facilities
Boundary Surveys
Photogrammetry
Geodesy
Remote Sensing: Fundamentals
Remote Sensing: Environmental Applications
Physical Environment Evaluation
Image Analysis I: Landforms
Seminar in Remote Sensing

Public and Environmental Systems Engineering

Microeconomic Analysis
Economic Analysis of Government
Engineering Economics and Management
Social Implications of Technology
Seminar in Technology Assessment
Legal Process
Environmental Law
Public Systems Analysis
Environmental and Water Resources Systems Analysis Colloquium
Environmental and Water Resources Systems Analysis Design Project
Environmental and Water Resources Systems Analysis Research
Special Topics in Environmental or Water Resources Systems Analysis

Fluid Mechanics and Hydrology

Fluid Mechanics
Hydraulic Engineering
Descriptive Hydrology
Advanced Fluid Mechanics
Dynamic Oceanography
Analytical Hydrology
Flow in Porous Media and Ground Water
Engineering Micrometeorology
Coastal Engineering
Environmental Fluid Mechanics
Unsteady Hydraulics
Environmental Planning and Operation of Energy Facilities
Hydraulics Seminar
Special Topics in Hydraulics
Experimental and Numerical Methods in Hydraulics and Hydrology
Research in Hydraulics

Geotechnical Engineering

Introductory Soil Mechanics
Foundation Engineering
Retaining Structures and Slopes
Highway Engineering
Bituminous Materials and Pavement Design
Design Project in Geotechnical Engineering
Seminar in Geotechnical Engineering
Special Topics in Geotechnical Engineering
Engineering Behavior of Soils
Rock Engineering
Graduate Soil Mechanics Laboratory
Advanced Foundation Engineering
Soil Dynamics
Embankment Dam Engineering

Case Studies in Geotechnical Engineering
Tunnel Engineering
Research in Geotechnical Engineering

Environmental Quality Engineering

Environmental Quality Engineering
Assimilation of Pollutants in Natural Waters
Chemistry of Water and Wastewater
Aquatic Chemistry
Industrial Waste Management
Environmental Quality Management
Air Quality Control
Environmental Effects of Energy Conversion
Sludge Treatment, Utilization, and Disposal
Environmental Quality Engineering Seminar
Water Chemistry Laboratory
Chemical and Physical Phenomena and Processes
Biological Phenomena and Processes
Design Project in Sanitary Engineering
Sanitary Engineering Research
Special Topics in Sanitary Engineering

Transportation

Introduction to Transportation Engineering
Urban Transportation Planning
Travel Demand Theory and Applications
Transportation Systems Analysis
Transportation Systems Design
Operations, Design, and Planning of Public Transportation Systems
Freight Transportation
Transportation Economics
Transportation Design Project
Transportation Research
Transportation Colloquium
Special Topics in Transportation
Highway Engineering

Structural Engineering

Structural Engineering I—IV
Structural Behavior Laboratory
Engineering Materials
Timber Engineering
Fundamentals of Structural Mechanics
Advanced Structural Analysis
Structural Model Analysis and Experimental Methods
Advanced Plain Concrete
Structure and Properties of Materials
Low-cost Housing Primarily for Developing Nations
Low-cost Housing for Developing Nations—Workshop for Physical Planning, Site Selection, and Design
Structural Engineering Seminar
Engineering Fracture Mechanics
Structural Stability: Theory and Design
Finite Element Analysis
Structural Reliability and Safety
Prestressed Concrete Structures
Advanced Reinforced Concrete
Advanced Design of Metal Structures
Advanced Behavior of Metal Structures
Shell Theory and Design
Structural Design for Dynamic Loads
Optimum Structural Design
Numerical Methods in Structural Engineering
Advanced Topics in Finite Element Analysis
Civil and Environmental Engineering Materials Project
Design Project in Structural Engineering
Research in Structural Engineering
Special Topics in Structural Engineering

Water Resources Planning and Analysis

Water Resources Problems and Policies
Stochastic Hydrologic Modeling
Water Quality Modeling
Water Resources Systems Planning

Professional Practice

Numerical Solutions to Civil Engineering Problems
Uncertainty Analysis in Engineering
Civil and Environmental Engineering Design Project
Professional Practice in Engineering
Legal Methods
Numerical Solutions to Civil Engineering Problems

Computer Science

Introduction to Computer Programming
The Computer Age
Introduction to FORTRAN Programming
Introduction to PASCAL
Introduction to APL Programming
Introduction to Interactive Computing with CMS
Introduction to Statistical Packages
Multistep Job Processing and JCL
Computers and Programming
Discrete Structures
Social Issues in Computing
Introduction to Computer Systems and Organization
Numerical Methods
Data Structures
Systems Programming and Operating Systems
Interactive Computer Graphics
Introduction to Data-Base Systems
Introduction to Theory of Computing
Independent Reading and Research
Computer Science and Programming
Advanced Programming Languages
Translator Writing
Concurrent Programming and Operating Systems Principles
Machine Organization
Picture Processing
Numerical Analysis
Short Course on Linear and Nonlinear Least Squares
Short Course on Spline Approximation
Data-Base Systems
Information Organization and Retrieval
Theory of Algorithms and Computing
Computer Science Graduate Seminar
Theory of Programming Languages
Theoretical Aspects of Compiler Construction
Seminar in Operating Systems
Seminar in Programming
Advanced Numerical Analysis
Seminar in Numerical Analysis
Selected Topics in Information Processing
Seminar in File Processing
Seminar in Information Organization and Retrieval
Advanced Theory of Computing
Seminar in Automata Theory
Special Investigations in Computer Science

Electrical Engineering

Introduction to Electrical Systems
Introduction to Digital Systems
Electrical Signals and Systems
Electromagnetic Theory
Fundamentals of Quantum and Solid-State Electronics
Probability and Random Signals
Electrical Laboratory
Quantum Mechanics and Applications
Introduction to Lasers and Optical Electronics
Thermal, Fluid, and Statistical Physics for Engineers
Electronic Circuit Design
Neuroelectric Systems
Active and Digital Network Design
Computer Methods in Electrical Engineering
Advanced Digital Signal Processing
Fundamentals of Analog and Digital Signal Circuits
Analog and Digital Signal Circuit Theory and Applications
Physical Electronics of Solids
Semiconductor Electronics
Solid-State Microwave Devices and Subsystems
Integrated Circuit Technology
Electric Energy Systems
Advanced Power Systems Analysis
Error Control Codes
Fundamental Information Theory
Decision Making and Estimation
Communication Systems
Feedback Control Systems
Computer Structures
Microprocessor Systems
Computer Processor Organization and Memory Hierarchy
Computer Input/Output and Distributed Architecture
Current Topics in Computer Engineering
Elementary Plasma Physics and Gas Discharges
Introduction to Plasma Physics
Advanced Plasma Physics
Electrodynamics

Microwave Theory
Upper Atmosphere Physics
Electromagnetic Wave Propagation
Fundamentals of Acoustics
Special Topics in Electrical Engineering
Theory of Linear Systems
Quantum Electronics
Opto-Electronic Devices
Theory and Applications of Nonlinear Optics
Solid-State Devices
Physics of Solid-State Devices
Very-Large-Scale Integration Digital System Design
Random Processes in Electrical Systems
Advanced Topics in Information Theory
Foundations of Inference and Decision Making
Estimation and Control in Discrete Linear Systems
Optimal Control and Estimation for Continuous Systems
Random Processes in Control Systems
Kinetic Theory
Electrical Engineering Colloquium
Electrical Engineering Design
Special Topics in Electrical Engineering

Geological Sciences

Freshman and Sophomore Courses

Introductory Geological Sciences
Introduction to Historical Geology
Earth Science
Frontiers of Geology
Geology and the Environment
Mineral and Energy Resources and the Environment

Junior, Senior, and Graduate Courses

Structural Geology and Sedimentation
Geomorphology
Mineralogy
Petrology and Geochemistry
Sedimentology and Stratigraphy
Geophysics and Geotectonics
Experiments and Techniques in Earth Sciences
Petroleum Geology
Topics of Orogenic Zones; Modern and Ancient
Geomorphology
The Earth's Crust: Structure, Composition, and Evolution
Digital Processing and Analysis of Geophysical Data
Interpretation of Seismic Reflection Data
Modern Petrology
Isotope Geology
Chemical Geology
Mineral Deposits
Invertebrate Paleontology and Biostratigraphy
Sedimentation and Tectonics
Marine Tectonics
Physics of the Earth
Introduction to Geophysical Prospecting
Tectonic and Stratigraphic Evolution of Sedimentary Basins
Petrology and Geochemistry
Advanced Geomorphology Topics
Marine Geology
Sedimentary Petrology and Tectonics
Topics in Mineral Resource Studies and Precambrian Geology
Plate Tectonics and Geology
Paleobiology
Geophysics, Exploration Seismology
Earthquakes and Tectonics
Exploration Seismology, Gravity, Magnetism
Geophysics, Seismology and Geotectonics
Geomorphology, Gravity, Magnetism, Heat Flow
Mineralogy and Crystallography, X-ray Diffraction, Microscopy,
High-Pressure-Temperature Experiments
Glacial and Quaternary Geology
Geotectonics
Advanced Geophysics
Seismology

Field Courses

Intercession Field Trip
Western Adirondack Field Course
Western Field Course

Materials Science and Engineering

Undergraduate Courses

Elements of Materials Science
Introduction to Mechanical Properties of Materials

Introduction to Electrical Properties of Materials
Structure and Properties of Materials
Electrical and Magnetic Properties of Materials
Research Involvement
Thermodynamics of Condensed Systems
Kinetics, Diffusion, and Phase Transformations
Materials and Manufacturing Processes
Microprocessing of Materials
Macroprocessing of Materials
Senior Materials Laboratory
Mechanical Properties of Materials
Current Topics in Materials
Introduction to Ceramics
Properties of Solid Polymers
Physical Metallurgy
Processing of Glass, Ceramic, and Glass-Ceramic Materials
Analysis of Manufacturing Processes

Graduate Core Courses

Thermodynamics of Materials
Elasticity and Physical Properties of Crystals
Structure of Solids
Plastic Flow and Fracture of Materials
Kinetics of Solid-State Reactions

Further Graduate Courses

Principles of Diffraction
Electron Microscopy
Ceramic Materials
Electrical and Magnetic Properties of Materials
Amorphous and Semicrystalline Materials
Physics of Solid Surfaces and Interfaces
Advanced Topics in Crystal Defects
The Effects of Radiation on Materials
Amorphous Semiconductors
Solar Energy Materials
Advanced Topics in Mechanical Properties
Special Studies in Materials Sciences
Materials Science and Engineering Colloquium
Materials Science Research Seminars
Research in Materials Science

Mechanical and Aerospace Engineering

General and Required Courses

Naval Ship Systems
Thermodynamics
Technology, Society, and the Human
Introduction to Aeronautics
Materials and Manufacturing Processes
Introductory Fluid Mechanics
Heat Transfer and Transport Processes
Mechanical Design and Analysis
Systems Dynamics
Mechanical Engineering Laboratory

Mechanical Systems Design and Manufacturing

Design for Manufacture
Mechanical Reliability
Automotive Engineering
Computer-Aided Design
Analysis of Manufacturing Processes
Materials Engineering
Numerical Control in Manufacturing
Mechanical Components
Biomechanical Systems—Analysis and Design
Mechanical and Aerospace Structures
Microprocessor Applications
Mechanical Vibrations
Feedback Control Systems
Dynamics of Vehicles
Finite Element Methods in Thermomechanical Processes
Experimental Methods in Machine Design
Advanced Mechanical Vibrations
Digital Simulation of Dynamic Systems
Design of Complex Systems
Hydrodynamic Lubrication: Fluid-Film Bearings
Advanced Mechanical Reliability
Optimum Design of Mechanical Systems

Energy, Fluids, and Aerospace Engineering

Introduction to Aeronautics
Acoustics and Noise
Combustion Engines
Plasma Energy Systems
Aerospace Propulsion Systems
Dynamics of Flight Vehicles
Fluid Dynamics
Boundary Layers
Turbomachinery and Applications
Combustion Processes
Solar Energy Utilization

Direct Energy Conversion and Storage
Power Systems
Future Energy Systems Seminar
Incompressible Aerodynamics
Compressible Aerodynamics
Physics of Fluids
Gasdynamics
Atmospheric Turbulence and Micrometeorology
Seminar on Combustion
Transport Processes
Boiling and Two-Phase Flow
Experimental Methods in Fluid Mechanics, Heat Transfer, and Combustion
Viscous Flows
Aerodynamic Noise Theory
Turbulence and Turbulent Flow
Dynamics of Rotating Fluids
Numerical Methods in Fluid Flow and Heat Transfer
Nonlinear Wave Propagation

Special Offerings

Special Investigations in Mechanical and Aerospace Engineering
Design Project in Mechanical Engineering
Seminar and Design Project in Aerospace Engineering
Special Investigation in Mechanical and Aerospace Engineering
Special Topics in Mechanical and Aerospace Engineering
Mechanical and Aerospace Engineering Research Conference
Mechanical and Aerospace Engineering Colloquium
Research in Mechanical Aerospace Engineering

Nuclear Science and Engineering

Interaction of Radiation and Matter

Operations Research and Industrial Engineering

Introductory Engineering Probability
Basic Engineering Probability and Statistics
Optimization
Cost Accounting, Analysis, and Control
Introductory Engineering Stochastic Processes
Introduction to Statistical Theory with Engineering Applications
Industrial Systems Analysis
Layout and Material Handling Systems
Production Planning and Control
Discrete Models
Introduction to Game Theory
Introductory Engineering Stochastic Processes
Applications of Statistics to Engineering Problems
Statistical Decision Theory
Mathematical Models—Development and Application
Industrial Engineering Fieldwork
Advanced Engineering Economic Analysis
Queueing Theory and Its Applications
Inventory Theory
Applied Time Series Analysis
Statistical Methods in Quality and Reliability Control
Digital Systems Simulation
Facilities Location and Design
Operations Research
Scheduling Theory
Advanced Production and Inventory Planning
Mathematical Programming
Nonlinear Programming
Game Theory
Dynamic Programming
Convex Analysis
Integer Programming
Graph Theory and Network Flows
Combinatorial Optimization
Applied Probability
Applied Stochastic Processes
Applied Statistics
Intermediate Applied Statistics
Statistical Decision Theory
Nonparametric Statistical Analysis
Design of Experiments
Qualitative Data Analysis
Statistical Analysis of Life Data
Selected Topics in Applied Operations
Selected Topics in Game Theory
Selected Topics in Mathematical Programming
Advanced Queueing Theory
Advanced Stochastic Processes
Deterministic and Stochastic Control

Selected Topics in Applied Probability
Statistical Selection and Ranking Procedures
Selected Topics in Applied Statistics
Special Investigations
Operations Research Graduate Colloquium
Applied Operations Research and Industrial Engineering Colloquium

Theoretical and Applied Mechanics

Basics in Engineering Mathematics and Mechanics

Mechanics of Solids
Dynamics
Engineering Mathematics

Engineering Mathematics

Advanced Engineering Analysis
Methods of Applied Mathematics I–IV
Experimental Mechanics

Continuum Mechanics and Inelasticity

Introduction to Continuum Mechanics
Continuum Mechanics and Thermodynamics
Topics in Continuum Mechanics
Analytical Methods in Continuum Mechanics
Viscoelasticity and Creep
Theory of Plasticity

Elasticity and Waves

Mechanical Vibrations and Waves
Applied Elasticity
Theory of Elasticity
Fundamentals of Acoustics
Mathematical Theory of Elasticity
Elastic Waves in Solids

Dynamics and Space Mechanics

Intermediate Dynamics
Advanced Dynamics
Celestial Mechanics
Mechanics of the Solar System
Nonlinear Vibrations
Qualitative Theory of Dynamical Systems

Special Courses, Projects, and Thesis Research

Project in Engineering Science
Selected Topics in Theoretical and Applied Mechanics
Research in Theoretical and Applied Mechanics

School of Hotel Administration

Administrative and General Management

Lectures in Hotel Management
Personal Real Estate Investments
Club Management
Franchising in the Hospitality Industry
Resort and Condominium Management
General Insurance
Development of a Hospitality Property
Principles of Management
Rooms Division Management—Front Office and Reservations
Rooms Division Management—Housekeeping and Laundry Operations
General Survey of Real Estate
Hotel Security and Crime Prevention
Seminar in Management Principles
Hotel Management Seminar
The Small Business
Management Organization of Small Business
Integrated Case Studies in the Hospitality Industry
Seminar in Hotel Operations
Casino Management
Graduate Seminar in Hotel Operations

Human Resources Management

Introductory Psychology
Management of Human Resources
Union-Management Relations in Private Industry: A Survey
Psychology in Business and Industry
Special Studies in the Management of Human Resources
Dispute Resolution in Service Industries

Accounting and Financial Management

Basic Principles of Accounting and Financial Management
 Financial Accounting
 Hospitality Accounting Systems
 Finance
 Financial Accounting Principles
 Managerial Accounting
 Managerial Accounting in the Hospitality Industry
 Front Office Machine Accounting
 Food and Beverage Control
 Hotel Management Contracts
 Investment Management
 Financial Analysis and Planning
 Financial Charts and Graphs
 Introduction to Statistical Analysis and Inference
 Internal Control in Hotels
 Personal and Corporate Taxation
 Interpretation and Analysis of Financial Statements

Food and Beverage Management

Introduction to Food and Beverage Operation and Management
 Techniques of Food Production
 Meat Science and Management
 Operational Food Production Systems
 Food Production Systems: Institutional
 Food Production Systems: Restaurant and Banquet
 Restaurant Management
 Corporate Restaurant Management
 Survey of Beverages
 Purchasing
 Introduction to Wine and Spirits
 Corporate Food and Beverage Management

Law

Law and the Woman Employee
 Law and Business
 Law of Federal Securities
 Law of Innkeeping

Properties Management

Property Management Graphics
 Hotel Mechanical and Electrical Problems
 Introductory Food Facilities Engineering
 Food Facilities Equipment Design and Layout
 Physical Plant Planning and Construction
 Seminar in Environmental Control
 Seminar in Hotel Planning
 Seminar in Restaurant Planning
 Graduate Study in Project Development and Construction
 Graduate Study in Electrical and Mechanical Systems

Communication

Typewriting
 Basic Business Writing
 Report Typing
 Typewriting and Business Procedures
 Shorthand Theory
 Effective Communication
 Written Communication
 Advanced Business Writing

Science and Technology

Food Chemistry
 Sanitation in the Food Service Operation
 Information Systems
 Hotel Computing Applications
 Principles of Nutrition
 Business Computer Systems Design
 Computers and Hotel Computing Applications

Economics, Marketing, and Tourism

Macroeconomics
 Microeconomics
 Principles of Marketing
 Tourism
 Hotel Sales
 Advertising and Public Relations
 Cases in Hospitality Marketing

Seminar in Selected Topics in Hospitality Marketing
 Seminar in Advertising and Public Relations
 Psychology of Advertising
 Marketing Management

Independent Research

Undergraduate Independent Research
 Administrative and General Management
 Work Study—Operations
 Work Study—Academic
 Human Resources Management
 Accounting and Financial Management
 Food and Beverage Management
 Law
 Properties Management
 Communication
 Science and Technology
 Economics, Marketing and Tourism

New York State College of Human Ecology

Interdepartmental Courses

Field Study Office

Orientation to Field Study: Skills for Learning in the Field
 Preparation for Fieldwork: Perspectives in Human Ecology
 Directed Readings
 Empirical Research
 Supervised Fieldwork
 Teaching Apprenticeship
 Sponsored Field Learning Internships
 Field Experience in Community Problem Solving
 The Ecology of Urban Organizations: New York City

Division of Student Services

Special Studies for Undergraduates
 Directed Readings
 Empirical Research
 Supervised Fieldwork
 Special Problems for Graduate Students

Consumer Economics and Housing

Introduction to Consumer Economics
 Housing and Society
 Sociological Perspectives on Housing
 Marketing and the Consumer
 Housing and Local Government
 Special Studies for Undergraduates
 Household Decision Making
 Economic Organization of the Household
 Personal Financial Management
 Consumer Decision Making
 Fundamentals of Housing Economics
 Wealth and Income
 Special Studies for Undergraduates
 Empirical Research
 Supervised Fieldwork
 Time as a Human Resource
 Family Management: An Ecological Approach
 Economics of Recreation and Leisure
 The Economics of Consumer Policy
 Housing Finance
 Social Effects of the Housing Environment
 Housing Policy and Housing Programs
 Consumer and the Law
 Community Decision Making
 Welfare Economics
 Public and Private Decision Making
 Special Problems for Graduate Students
 Seminar in Family Decision Making
 Explorations in Consumer Economics
 Economics of Household Behavior
 Family Financial Management
 Fundamentals of Housing
 Advanced Housing Market Analysis
 Demographic Aspects of Housing
 Seminar on Consumer Law Problems
 Applied Welfare Economics—Policy Issues
 Consumption and Demand Analysis
 Human Capital
 Seminar in Current Housing Issues
 Readings in Housing

Design and Environmental Analysis

Design I: Fundamentals
 Theory of Design
 Drawing
 Drawing the Clothed Figure
 Textiles I and II
 Apparel Design I—III
 Environmental Analysis: Human and Social Factors
 Science for Consumers
 Science, Technology, and Human Needs
 Clothing Through the Life Cycle
 Dress: A Reflection of American Women's Roles
 Environmental Psychology: Perspectives and Methods
 Historic Design I: Furniture and Interior Design
 Historic Design II: Furniture and Interior Design
 Fundamentals of Interior Design
 Household Equipment Principles
 Textiles III: Structure and Properties
 Textiles for Interiors and Exteriors
 Design: Weaving
 Design: Introductory Textile Printing
 Graphic Design
 Environmental Analysis: Human Factors
 Selected Topics in History of Costume
 Historic Design III: Contemporary Design
 Residential Design
 Empirical Research
 Supervised Fieldwork
 The Textile and Apparel Industries
 The Textile and Apparel Industries—Field Experience
 Care of Textiles
 Textiles IV: Textile Chemistry
 Apparel Textiles
 Textile Materials for Biomedical Use
 Apparel Design IV: Theory of Functional Clothing
 Psychology of the Near Environment
 Apparel Design V: Product Development and Presentation
 Design IV
 Special Problems for Graduate Students
 Shelter
 Textile Fiber Evaluation by Modern Analytical Techniques
 Physical Science in the Home
 Special Topics in Textiles
 Advanced Textile Chemistry
 Textile Seminar
 Mechanics of Fibrous Structures
 Person-Environment Fit: Systems Analysis
 Nonverbal Communication: The Role of Objects and Space in Everyday Life
 Social Psychology of the Near Environment
 Topics in Human Environments
 Environmental Psychology: Perspectives and Methods

Human Development and Family Studies

Observation
 Human Development: Infancy and Childhood
 Human Development: Adolescence and Youth
 Introduction to Expressive Materials
 The Family in Modern Society
 Early Adolescence
 From Adolescence to Adulthood: Developmental Issues
 Participation with Groups of Children in the Early Years
 Participation with Groups of Children in the Middle Years
 The Family
 Processes of Adaptation and Atypical Development
 Family and Community Health
 Collective Behavior and Social Movements
 Problematic Behavior in Adolescence
 Human Sexuality: A Psychological Perspective
 Cognitive Processes in Development
 The Development of Creative Thinking
 Models and Settings in Programs for Children
 Infant Behavior and Development
 The Role and Meaning of Play
 Human Growth and Development: Biological and Social Psychological Considerations
 Specialized Participation in Preschool Settings
 Contemporary Family Forms in the United States
 The Family in Cross-cultural Perspective
 Theories of Adult Interpersonal Relationships
 Personality Development in Childhood
 The Development of Social Behavior

The Study of Lives
 Behavioral Disorders of Childhood
 Intellectual Deviations in Development
 Aging in America
 Experimental Child Psychology
 Empirical Research
 Supervised Fieldwork
 Teaching Apprenticeship
 Field Experience in Adolescent Development: The Individual in Community
 Field Experience in Adolescent Development: Social Policy Toward Youth
 Policies and Programs for Adolescents
 Work and Human Development
 Learning in Children
 Intellectual Development and Education
 Piaget's Theory of Cognitive Development
 Language Development
 Creative Expression and Child Growth
 The Development of the Black Child
 Innovative Programs of Parent Intervention and Community Action
 Families and Social Policy
 Field Experience in Atypical Development
 Historical Roots of Modern Psychology

Topics Courses

Topics in Adolescent Development
 Topics in Cognitive Development
 Topics in Early Childhood Education and Development
 Topics in Family Studies
 Topics in Social and Personality Development
 Topics in Atypical Development
 Topics in the Ecology of Human Development

Graduate Program

Research Design and Methodology
 Research Design and Data Analysis
 Development in Context
 Directed Readings
 Empirical Research
 Practicum
 Adolescence
 Cognitive Development
 Infancy
 Early Childhood Education
 Contemporary Family Theory and Research
 Personality and Socialization
 Atypical Development
 Research Practicum in the Ecology of Human Development

Topical Seminars

Seminar in Adolescence
 Seminar on Language Development
 Seminar in Cognitive Development
 Seminar on Infancy
 Seminar in Early Childhood Education
 Seminar in Family Studies
 Seminar in Personality and Social Development
 Seminar in Atypical Development
 Seminar in Human Development and Family Studies
 Seminar on Ecology of Human Development

Human Service Studies

Structure of Community Services
 Groups and Organizations
 What Is Teaching?
 Ecological Determinants of Behavior
 Research Design and Analysis
 Health-Care Services and the Consumer
 Ecology and Epidemiology of Health
 Ecological Approach to Instructional Strategies
 Clinical Analysis of Teaching
 Social Welfare as a Social Institution
 Empirical Research
 Supervised Fieldwork
 Introduction to Adult Education
 The Adult Learner in Microperspective
 Practicum
 The Adult Learner in Macroperspective
 The Helping Relationship
 Program Planning in Community and Family Life Education
 Program Planning
 The Art of Teaching
 Teaching Internship
 Critical Issues in Education
 Career Environment and Individual Development
 Teaching for Reading Competence: A Content Area Approach
 Social Work Practice

Senior Seminar in Social Work
Program Development in Social Services
Social Policy

Nutritional Sciences (see below)

The Graduate Program

Introduction to Human Service Studies
Teaching Human Services in Higher Education
Adult Development and the Provision of Human Services
Preparing Professionals in the Human Services
Consulting and Supervisory Roles in Human Services
Administration of Human Service Programs in Higher Education
Public Policy and Program Planning in Human Services
Designing and Implementing Human Service Programs
The Intergovernmental System and Human Service Program Planning
Measurement for Program Evaluation and Research
Program Evaluation and Research Design
Program Evaluation in Theory and Practice
Strategies for Policies and Program Evaluation
Qualitative Methods for Program Evaluation
Internship in Human Service Studies
Seminar in Evaluation

Topical Seminars and Practica

Seminar in Adult and Community Education
Seminar in Home Economics Education
Seminar in Social Welfare Services
Seminar in Health and Mental Health Services
Practicum in Higher Education in Human Services
Seminar in Higher Education in Human Services
Practicum in Program Planning and Development
Seminar in Program Planning and Development
Practicum in Program Evaluation and Evaluative Research
Seminar in Program Evaluation and Evaluative Research

Continuing Education for Professionals

Groups and Organizations
Professional Improvement
Research Design and Analysis
Social Welfare as a Social Institution
Ecological Determinants of Behavior
Program Development in Social Services
Organization and Structure for Delivery of Social Services

Division of Nutritional Sciences

Ecology of Human Nutrition and Food
Introductory Foods
Maternal and Child Nutrition
Introduction to Physiochemical Aspects of Food
Nutritional Aspects of Raw and Processed Foods
Orientation to Field Study in Extension
Sociocultural Aspects of Food and Nutrition
Physiological and Biochemical Bases of Human Nutrition
Laboratory in Nutrition
Consumer Food Issues
Human Growth and Development: Biological and Social Psychological Considerations
Biochemistry and Human Behavior
Management Principles in Food Service Operation
Empirical Research
Supervised Fieldwork
Nutrition and Disease
Diet Formulation and Analysis
Community Nutrition and Health
Physiochemical Aspects of Food
Physiochemical Aspects of Food Laboratory
Experimental Foods Methods
National and International Food Economics
Applied Dietetics in Food Service Systems
Special Problems for Graduate Students
Advanced Nutrition Series
Proteins and Amino Acids in Nutrition
Lipids
The Vitamins
Carbohydrate Chemistry

Molecular Toxicology
Methods of Assessing Physical Growth in Children
Readings in Food
Teaching Seminar
Teaching Experience
Field of Nutrition Seminar
General Nutrition
Seminar in Food Habits Research
Special Topics in Food
Advanced Nutrition Laboratory
Anthropometric Assessment
Dietary Assessment
Clinical Assessment
Biochemical Assessment
Vitamins and Coenzymes
Enzymology and Metabolic Regulation
Epidemiology of Nutrition
Seminar of United States Nutritional Services and Programs
Seminar in Physiochemical Aspects of Food
Clinical and Public Health Nutrition
Nutrition and the Chemical Environment
Nutrition Counseling
The Nutrition and Physiology of Mineral Elements
Special Topics in Nutrition
Field Seminar
Clinical Field Studies
International Nutrition Problems, Policy and Programs
Seminar in Nutrition and Behavior
Seminar in International Nutrition and Development Policy
Special Topics in International Nutrition
Seminar in Nutritional Science

Independent Interdisciplinary Centers and Programs

Africana Studies and Research Center

Swahili
Afro-American Writing and Expression
Applied Writing Methods on Afro-American Topics
Infancy, Family, and The Community
Teaching and Learning in Black Schools
Introduction to Modern Political Systems
Swahili Literature
History and Politics of Racism and Segregation
Issues in Black Literature
Black Political Thought in the United States
Black Resistance: South Africa and North America
Black Drama
The Sociology of the Black Experience
Seminar: Psychological Aspects of the Black Experience
Social and Psychological Effects of Colonization and Racism
Blacks in Communication Media and Film Workshop
Neocolonialism and Government in Africa: Problems of Africanization and Development
Afro-American Perspectives in Experimental Psychology
African Socialism and Nation Building
Politics in the Afro-Caribbean World: An Introduction
Ancient African Nations and Civilizations
Afro-American History
Afro-American History: The Twentieth Century
Contemporary African History
Comparative Slave Trade of Africans in The Americas
Political Economy of Ideology and Development in Africa
Black Politics and the American Political System
Social Policy and the Black Community in the Urban Economy
African Literature
Advanced Seminar in the Black Theater
History of Afro-American Literature
Modern Afro-American Literature
History of African Origins of Major Western Religions
Black Critique: Toward Defining and Developing a Black Aesthetic
Black Leaders and Movements in Afro-American History
Political Economy of Black America
Independent Study

Workshop in Teaching About Africa
Historiography and Sources: The Development of Afro-American History
Comparative Political History of the African Diaspora
Historical Method, Sources and Interpretation
Transnational Corporations in Africa and Other Developing Countries
Political History of Social Development in the Caribbean
Seminar: Psychological Issues in the Black Community

Program on Science, Technology, and Society

Biology and Society I: The Biocultural Perspective
Biology and Society II: Biology, Society, and Human Values
Biomedical Ethics
Environmental Ethics
Senior Seminar in Human Fertility: Developing Nations
Senior Seminar: Biomedical Research, Regulations, and Ethics: A Delicate Balance
Senior Seminar: Social Demography
Science, Technology, and Public Policy
Impact and Control of Technology Change
Politics of Technical Decisions
The Computerized Society
Social Implications of Technology
Seminar in Technology Assessment
Environmental Law
Defense Policy and Arms Control
International Politics of Energy
Social History of Western Technology
Problems in the History and Philosophy of Biology
Science, Technology, and Law
Science and Human Nature
Science, Technology, and Social Change
Sociology of Science and Technology
Social and Political Studies of Science

New York State School of Industrial and Labor Relations

Collective Bargaining, Labor Law, and Labor History

History of Industrial Relations in the United States
Special Studies in the History of Industrial Relations in the United States
Collective Bargaining
Labor Relations Law and Legislation
Labor Union Administration
Research Seminar in the Social History of American Workers
Seminar in the History, Administration, and Theories of Industrial Relations in the United States
Research Seminar in the American Labor Movement and Politics
Industrial Relations Biographies
Famous Trials in American Labor History
Jewish Workers in Europe and America, 1798-1948
Union Organizing
Collective Bargaining Structures
Contemporary Trade Union Movement
Internship
Collective Bargaining
Labor Relations Law and Legislation
Labor Union History and Administration
Advanced Seminar in Labor Arbitration
Integration of Industrial Relations Theories
Arbitration
Governmental Adjustment of Labor
Readings in the Literature of American Radicalism and Dissent
Readings in the History of Industrial Relations in the United States
Theories of Industrial Relations Systems
Arbitration and Public Policy
Special Topics in Collective Bargaining, Labor Law, and Legislation
Public Policy and Labor Relations
Problems in Union Democracy
Labor Relations Law
Seminar in Labor Relations Law and Legislation

Special Topics in the History, Administration, and Theories of Industrial Relations
Employment Discrimination and the Law
Collective Bargaining in Public Education
Collective Bargaining in the Public Sector
Current Issues in Collective Bargaining
Labor Education
Theory and Research in Collective Bargaining
Research Seminar in Public Sector Collective Bargaining
Industrial Relations in Health Care Institutions
Internship
Workshop in Collective Bargaining, Labor Law, and Labor History

Economic and Social Statistics

Statistics
Economics and Social Statistics
Design of Sample Surveys
Techniques of Multivariate Analysis
Statistical Analysis of Qualitative Data
Introductory Statistics for the Social Sciences
Seminar in Modern Data Analysis
Seminar in Statistical Methods
Types of Sampling

International and Comparative Labor Relations

Comparative Industrial Relations Systems
Labor in Developing Economies
European Labor History
Seminar in International and Comparative Labor Problems

Labor Economics

Development of Economic Institutions
Economics of Wages and Employment
Economic Security
Protective Labor Legislation
Problems in Labor Legislation
Problems in Labor Economics
Comparative Economic Systems: Soviet Russia
Economics of Collective Bargaining
Capitalism and Socialism
Health, Welfare, and Pension Plans
Income Distribution
Internship
Labor Economics
Social Security and Protective Labor Legislation
Economics of Manpower
Work and Welfare: Interactions Between Cash Transfer Programs and the Labor Market
Special Topics in Labor Economics
The Economics of Occupational Safety and Health
Economics of the American System of Private Enterprise
Professional and College-Trained Manpower: Labor Market Issues and Analysis
Evaluation of Social Programs
Economics of the American System of Private Enterprise
Seminar on Investment in Man
Seminar in Labor Economics
Economic Theory and Labor Market Issues
Workshop in Labor Economics

Organizational Behavior

Society, Industry, and the Individual
Social Issues and Social Theory in Industrial Society
Studies in Organizational Behavior: Regulating the Corporation
The Psychology of Industrial Engineering
Stress at Work
Cross-cultural Studies of Organizational Behavior
Introduction to the Study of Attitudes
Organizations and Deviant Behavior
Organizations and Social Inequality
Sociology of Occupations
Psychology of Industrial Conflict
Cooperation, Competition, and Conflict Resolution
Sociological Analysis of Organizations
The Study of Work Motivation
Individual Differences and Organizational Behavior

Organizational Behavior Simulations
 Group Processes
 Social Organization of the Urban Community
 Groups in Work Organizations
 Evaluation of Social Action Programs
 Study of Public Sector Bureaucracy
 Sociology of Industrial Conflict
 Theories of Industrial Society
 The Professions: Organization and Control
 Ecological Psychology: Behavior Setting
 Analysis within the Organizational Context
 Organizational and Political Behavior in School Districts
 Unions and Public Policy in School Districts
 Internship
 Organizational Behavior
 Theories of Organizational Change, Innovation, and Evaluation
 Growth of the World Capitalist-Industrial System
 The Organization and Its Environment
 Labor and Monopoly Capital: The Growth of Large United States Firms in the Past Century
 Leadership in Organizations
 Personality in Organization
 Sociological Study of Power
 Urban Politics and Public Policy
 Cross-cultural Explorations of Individual Differences
 Social Regulation and Control of Institutions
 Seminar in Field Research
 Theories of Organizational Behavior
 Behavioral Research Theory, Strategy, and Methods
 Analysis of Published Research in Organizational Behavior
 Work and Industrial Conflict
 Seminar on Work Motivation

Personnel and Human Resources Management

Personnel Management
 Public Policy and the Development of Human Resources
 Urban Problems and Public Policy Programs
 Effective Supervision
 Techniques and Theories of Training in Organizations
 Communication in Organizations
 New York State—Human Resource and Employee Relations Issues and Policies
 Organization Development: Strategy and Practice
 Human Resources and State Legislative Process
 Social Contract, 1964–1980
 The Social Tensions of Labor Market Reform
 Occupational Analysis and Human Resource Planning
 Planning Area-wide Employment and Training Programs
 Sectoral Variations in Human Resource Policy
 Job Creation: Policy Emergence and Current Issues
 Human Resources and Immigration Policy in the United States
 Internship
 Career Planning and Development
 Seminar in Personnel or Human Resource Management
 Management Training Simulation: Public Policy Issues in Social Agencies
 History of Contemporary Management Thought
 Management and Leadership Development
 Case Studies in Personnel Administration
 Administrative Theory and Practice
 Current Issues and Research in Human Resources Development
 Staffing: Employee Selection and Utilization
 Administration of Compensation
 Top Management Personnel Strategies and Policies
 Human Resource Planning
 The Appraisal and Diagnosis of Organizations
 Design and Administration of Training Programs
 Seminar on the Theory and Practice of Organization Development
 Local Government Human Resource Planning and Administration
 Personnel Administration and Government Regulations
 The Debate over Full Employment
 Human Resource Economics and Public Policy

Interdepartmental Courses

Labor Problems in American Society
 Personnel Management for Managers
 Plant Shutdowns and Job Loss: Worker and Community Effects
 Human Resource and Collective Bargaining
 Problems in the Construction Industry

Officer Education

Aerospace Studies

United States Military Forces
 Aerospace Operations
 Development of Military Aviation
 American Air Power Since 1947
 Leadership and Communicative Skills
 Management in the Armed Forces
 Principles of Air Navigation and Aircraft Systems
 Military and American Society
 American Defense Policy

Leadership Laboratory Courses

Initial Military Experiences
 Intermediate Military Experiences
 Junior Officer Leadership
 Advanced Leadership Experiences
 Precommissioning Laboratory

Military Science

United States Organization for Defense
 American Military History
 Mapping: Land Navigation
 Social and Organizational Psychology in the Military Environment
 Leadership in Small Unit Operations
 Theory and Dynamics of the Military Team
 Contemporary Military Environment
 Leadership Laboratory I–IV

Naval Science

Fundamentals of Naval Science
 Naval Ship Systems
 Seapower-Maritime Affairs
 Armed Conflict and Society
 Principles of Navigation
 Amphibious Warfare
 Naval Operations
 Naval Leadership, Organization, and Management
 Naval Professional Laboratories

Physical Education

Archery
 Athletic Injury
 Badminton
 Basketball
 Bowling
 Equestrian
 Exercise and Figure Control
 First Aid
 Fitness and Conditioning
 Gymnastics
 Jogging
 Karate
 Basic Lacrosse
 Nautilus
 Racquetball
 Recreational Sports and Games
 Sailing
 Soccer
 Squash
 Tai Chi Chuan
 Weightlifting
 Yoga

Aquatic Courses

Beginning Swimming
 Intermediate Swimming
 Advanced Swimming
 Swimming Conditioning
 Advanced Life Saving
 American Red Cross Water Safety Instructor
 Water Safety Instructor Refresher Course
 Beginning Synchronized Swimming
 Advanced Synchronized Swimming
 Basic Scuba
 Scuba Diving
 Diving

Dance

Modern Dance Fundamentals
 Ballet Fundamentals
 Elementary Ballet
 Intermediate Ballet
 Elementary Modern Dance
 Intermediate Modern Dance
 High Intermediate Modern Dance
 Elementary Jazz
 Ballroom Dancing
 Folk Dancing

Fencing

Beginning Fencing
 Intermediate Fencing

Golf

Instructional Golf
 Recreational Golf

Mountaineering

Introduction to Backpacking
 Basic Mountaineering
 Advanced Mountaineering
 Outdoor Leadership Training
 Survival Weekend
 Winter Camping
 Ski Camping
 Flatwater Canoeing
 Whitewater Canoeing
 Bicycle Touring and Camping
 Advanced Rock Climbing
 Ice Climbing

Riflery

Riflery
 Skeet and Trap
 Hunter Safety

Skating

Basic Skating
 Beginning and Low Intermediate Figure Skating
 Intermediate and Advanced Figure Skating
 Hockey

Skiing

Downhill Skiing
 Cross-Country Skiing
 Ski Conditioning

Tennis

Beginning Tennis
 Intermediate Tennis
 Advanced Tennis

Volleyball

Beginning Volleyball
 Intermediate Volleyball
 Advanced Volleyball

Graduate Units

Graduate School of Business and Public Administration

Common Core Courses

Managerial Accounting
 Quantitative Methods for Management
 Economic Principles for Management
 Introduction to Computer Programming
 Introduction to Management Information Systems

Business Administration Program Core Courses

Marketing Management
 Production and Operations Management
 Managerial Finance
 Business Policy
 Introduction to the Business-Government Interface

Business Administration Elective Courses

Intermediate Accounting
 Advanced Accounting
 Cost Accounting
 Introduction to Taxation Affecting Business and Personal Decision Making
 Auditing
 Financial Information Evaluation
 Federal Income Tax
 Advanced Cost Accounting
 Law of Business Associations
 Advanced Business Law
 An Introduction to Estate Planning
 Financial Policy Decisions
 Investment Management
 Financial Markets and Institutions
 Seminar in Bank Management
 Finance Theory
 Topics in International Financial Management
 Options, Bonds, and Commodities
 Investment Banking
 Marketing Research
 Advertising Management
 Marketing Strategy
 Seminar in Marketing Planning: Topics and Cases
 Management of Marketing Intermediaries
 Marketing Decision Models
 Demand Analysis and Consumer Behavior
 Industrial Marketing
 Special Topics in Marketing Management
 Topics in Consumer Behavior
 Seminar in Current Research in Marketing
 Product Management and Policy
 Advertising Practicum
 Product Management
 Case Studies in Production and Operations Management
 Business Logistics Management
 Strategic Management

Public Administration Program Core Courses

Economic Foundations of Public Policy
 Public Financial Management
 Policy Considerations: The Business-Government Interface
 The Conduct of Public Affairs

Public Administration Elective Courses

Urban Government Operations
 Science, Technology, and Public Policy
 Integrative Seminar: Education for Public Management Program
 Seminar in Public Systems Analysis
 The Politics of Technical Decisions
 Legal Process
 Energy and Public Policy

Hospital and Health Services Administration Program Core Courses

Social Psychology of Health Organizations
Hospital Corporate Planning
Psychiatric Institutions: Administration and Practice
Primary Health Care Services: Policy and Planning
Legal Aspects of Hospital Administration
Health Services Research and Evaluation
Health Economics
Health and Welfare Policy
Health Maintenance Organization Development and Management
Health Operations Management and Planning
Seminar in Hospital Governance and Decision Making
Field Studies in Health Administration and Planning
Long-Term Care Services: Policy and Planning
Washington Health Policy Field Seminar
Orientation to Tertiary Hospital Services
Selected Topics in the Administration of Teaching Hospitals
Introduction to Clinical Medicine: The Physician, the Hospital, and the Delivery of Medical Care
Financial Management of Hospitals
International Comparisons of Health Services
Labor Relations in the Health Industry
State Government Health Policy Seminar

Common Course Electives

Fund Accounting
International Trade and Finance
American Business Operations Abroad
Administration of Agricultural and Rural Development
Security Analysis
Macroeconomics
Economic Evaluation of Capital Investment Projects
Problems and Practices: The Business-Government Interface
American Industry: Economic Analysis and Public Policy
Topics in Managerial Economics
Organizational Theory and Behavior
Personnel Administration and Human Relations
Processes and Techniques in Organizational Development
Organizational Behavior and Administration
Seminar in Organizational Theory
Behavioral Science and Managing
Sociotechnical Issues in Office Automation
Behavioral Decision Theory
Applied Probability
Applied Statistics
Operations Research
Applied Multivariate Analysis
Applied Econometrics
Management Science
Introduction to COBOL Programming
Data-Base Systems
Computer Systems Analysis
Seminar in University Administration
Management Writing

Research

Investment Analysis: Language Model Building
Laboratory
Advanced Capital Market Theory
Doctoral Seminar in Accounting
Finance Workshop
Doctoral Seminar in Monetary Economics
Advanced Corporate Finance Theory
Advanced Seminar in Banking and Financial Markets
Social Psychology of Organizing

Law School

First-Year Courses

Civil Procedure
Constitutional Law
Contracts
Criminal Justice
Practice Training
Property
Torts

Second-Year Electives

Agency and Partnership
Commercial Law
Commercial Paper and Banking Transactions
Corporations
Economics for Lawyers
Enterprise Organization
Evidence
Federal Income Taxation
Process of Property Transmission
Trusts and Estates

Second- and Third-Year Electives

Administrative Law
American Legal History
Antitrust Law
Collective Bargaining in the Public Sector
Comparative Law
Conflict of Laws
Contemporary Legal Theory
Criminal Procedure
Debtor-Creditor Law
Employment Discrimination and the Law
English Legal History
Environmental Law
Estate and Gift Taxation
Family Law
Federal Courts
Insurance
Intellectual and Industrial Property
International Human Rights
International Law
Labor Law
Land Financing
Land-Use Planning
Law of the European Community
Law Practice Dynamics
Law, Society, and Morality
Legislation
Local Government
Native American Law
New York Practice
Regulated Industries
Securities Regulation
Social Security Law
Supervised Writing or Teaching
Taxation of Partnership Income
Trial Practice
Trial Techniques

Seminars and Problem Courses

American Legal Theory
Comparative Law Seminar
Constitutional Criminal Procedure
Constitutional Theory
Consumer Law
Corporate Practice
Equal Protection Seminar
Ethics of Corporate Practice
Family Law Clinic
Fiduciary Administration
International Business Transactions
International Tax Planning
Labor Arbitration
Land-Use Planning Seminar
Law and Medicine
Legal Aid
Prisoners' Legal Services
Problems in Corporate Litigation
Problems in Environmental Law
Problems in Legislation
Problems in Urban Development
Science, Technology, and Law
Water-Waste-Toxic Materials

New York State College of Veterinary Medicine

Anatomy

Gross Anatomy
Developmental and Microscopic Anatomy
Microscopic Anatomy
Neuroanatomy
Applied Anatomy
Special Projects in Anatomy
Advanced Anatomy
Advanced Clinical Neurology
Vertebrate Morphology

Avian and Aquatic Animal Medicine

Poultry Hygiene and Disease
Avian Diseases
Diseases of Aquatic Animals
Aquavet: Introduction to Aquatic Veterinary Medicine
Diseases of Aquarium Fish
Advanced Work in Avian Diseases
Graduate Seminar in Diseases of Aquatic Animals
Advanced Work in Aquatic Animal Diseases

Clinical Sciences

Health and Diseases of Animals
Clinical Orientation
Clinical Methods
Obstetrics and Reproductive Diseases
Large Animal Medicine
Large Animal Surgery
Radiology
Clinical Nutrition
Veterinary Medical Orientation
Clinical Pathology
Large Animal Clinic
Large Animal Surgical Clinic
Ambulatory Clinic
Ambulatory and Mastitis Clinic
Diagnostic Services
Anesthesiology Clinic
General Medicine
Radiology Clinic
Basic Nutrition
Large Animal Surgical Techniques
Small Animal Medicine and Surgery
Small Animal Surgical Exercises
General Surgery and Anesthesiology
Small Animal Medical Clinic
Small Animal Surgical Clinic
Ophthalmology
Large Animal Medical Clinic
Opportunities in Veterinary Medicine
Dermatology Clinic
Special Problems in Large Animal Medicine
Special Problems in Large Animal Surgery
Special Problems in Large Animal Obstetrics
Dairy Herd Health
Poisonous Plants
Horse Health Management
Goats: Management and Diseases
Diseases of Swine
Special Problems in Small Animal Medicine
Special Problems in Small Animal Surgery
Veterinary Dermatology
Gastroenterology Conference
Veterinary Gastroenterology
Veterinary Research Methods
Advanced Work
Special Topics of Veterinary Ophthalmology

Microbiology

Basic Immunology
Pathogenic Microbiology
Veterinary Immunology
Veterinary Bacteriology
Veterinary Virology
Veterinary Mycology and Protozoology
Infectious and Zoonotic Diseases
Special Projects in Microbiology
Small Animal Infectious Diseases
Advanced Immunology Laboratory
Advanced Work in Bacteriology, Virology, or Immunology
Animal Virology

Microbiology Seminar
Laboratory Methods of Diagnosis
Seminars of Current Topics in Immunology and Microbiology

Pathology

Veterinary Pathology
Introduction to Laboratory Animal Medicine
Clinical Pathology
Comparative Necropsy
Special Problems in Pathology
Wildlife Pathology
Postmortem Pathology
Microscopy
Select Topics in Laboratory Animal Medicine
Principles of Toxicological Pathology
Clinical Immunology
Pathology of Nutritional Diseases
Advanced Work in Pathology
Reproductive Pathology
Laboratory Animal Clinical Rotation
Seminar in Surgical Pathology
Seminar in Necropsy Pathology
Special Topics in Pathology
Mechanisms of Disease
Immunopathology

Physical Biology/Section of Physiology

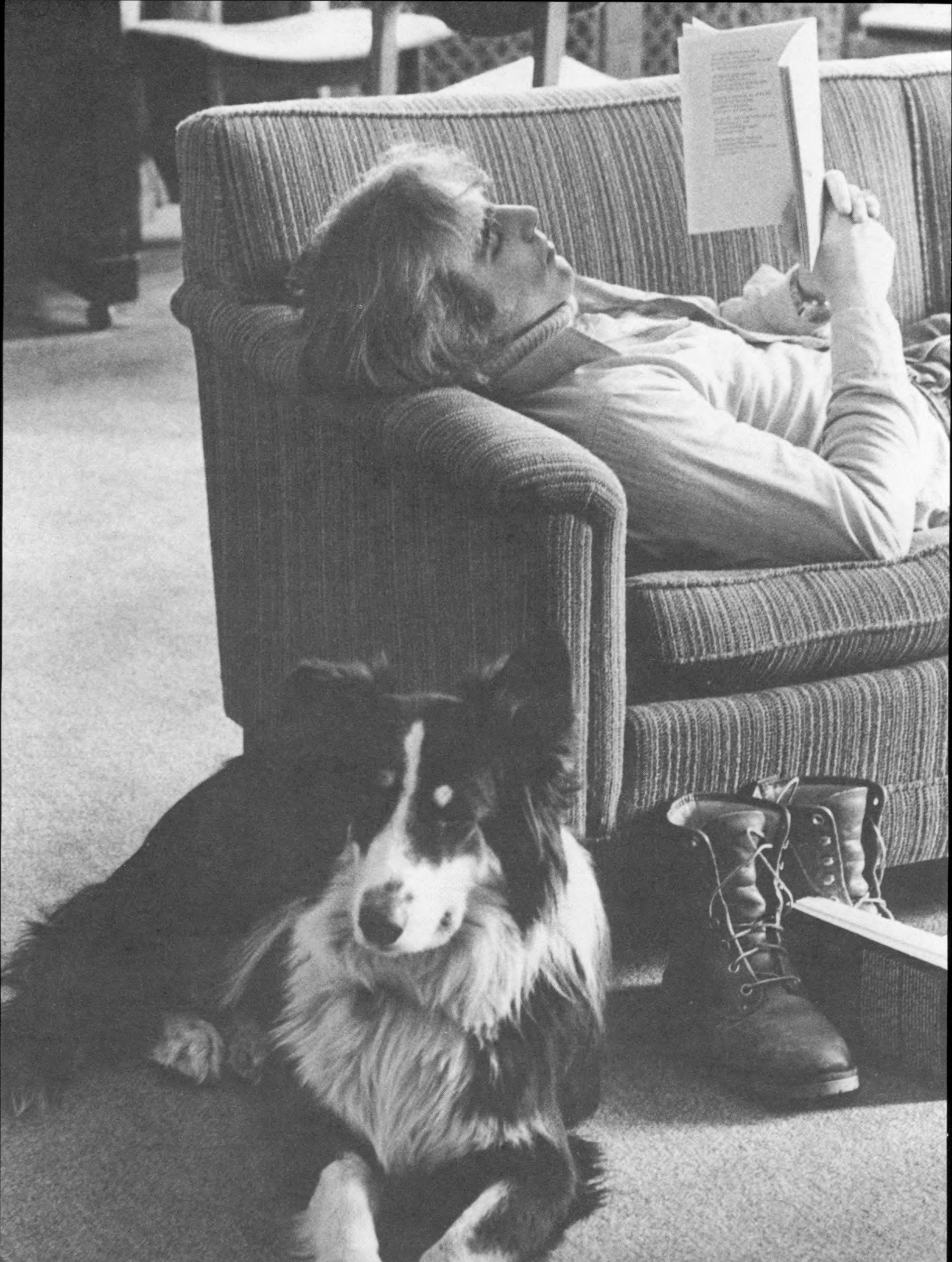
Invertebrate Zoology
Histology: The Biology of the Tissues
Introductory Animal Physiology Lectures
Seminar in Anatomy and Physiology
General Animal Physiology: A Quantitative Approach
Undergraduate Research in Animal Physiology
Applied Radiation Biology and Veterinary Nuclear Medicine
Graduate Research in Animal Physiology and Anatomy
Lipids
Special Projects in Physical Biology
Applied Electrophysiology
Clinical and Research Techniques in Veterinary Nuclear Medicine
Mammalian Physiology
Physiological Optics
Radioisotopes in Biological Research
Biological Membranes and Nutrient Transfer
Physical Biology Graduate Seminar
Molecular Mechanisms of Hormone Action
Mineral Metabolism

Physiology, Biochemistry, and Pharmacology

Vertebrate Biochemistry
Physiology for Veterinary Students
Basic Pharmacology
Clinical Pharmacology
Special Projects in Physiology
Toxicology
Special Projects in Pharmacology
Veterinary Animal Behavior
Acid-Base Relations
Special Problems in Physiology
Research
Physiologic Disposition of Drugs and Poisons
Physiology

Preventive Medicine

Introductory Parasitology and Symbiology
Parasitic Helminthology
Animal Parasitology
Diagnostic Parasitology
Preventive Medicine in Animal Health Management
Principles of Epidemiology
Veterinary Medical Orientation
Safety Evaluation in Public Health
Data Processing in Preventive Medicine



The wealth of academic opportunities at Cornell enables students to grow intellectually and to prepare for the future. While some undergraduates earn baccalaureate degrees via traditional curricula, others choose to follow specialized courses of study. Some students embark on careers after graduation; others enter graduate schools. The University's academic and career advisers are prepared to help students follow whichever paths they choose.

Cornell's seven undergraduate schools and colleges provide academic counseling to students, utilizing both faculty and peer advisers who work to help students select courses, choose majors, and plan for careers. Advice may be given formally (by an assigned adviser in his or her office) or informally (at a campus coffee shop or during a stroll across campus). Students who want assistance in the diagnosis of academic problems, selection of curriculum, or determination of vocational goals may be referred to the University Guidance and Testing Center for a comprehensive program of testing and counseling. Of course, students have access to the entire faculty and support staff of the University, on whom they can rely for information and guidance in establishing and realizing their goals.

Academic Opportunities

Advanced placement. Entering freshmen may qualify for advanced placement credit on the recommendation of the appropriate departments of instruction. Policies for using advanced placement credit to meet degree requirements vary from one Cornell undergraduate school or college to another; for detailed information students should consult a member of the admission staff in the individual unit.

Results of examinations sponsored by the College Board (the Advanced Placement Program and the College-Level Examination Program) may be presented for consideration by departments for the purpose of recommending placement credit. In addition, several Cornell departments offer their own examinations, given on campus during orientation. Students may also qualify for transfer credit based on previous college work.



The faculty was the glory of old Cornell. It was the strength of the men whom, with marvelous insight, President White collected about him in 1868, that made the Cornell we know. . . . Everything else was raw, crude, discouraging, but with teachers was inspiration.

David Starr Jordan, class of 1872

Information on Cornell University's advanced standing policy for foreign students may be obtained by writing to the associate director of undergraduate international admissions, 410 Thurston Avenue.

Honors programs. Programs are available throughout the University for especially talented undergraduate scholars who want to challenge themselves by doing research and advanced study in an honors curriculum. Requirements for graduation with honors vary from school to school within Cornell and are administered at the department level. Most honors students will, however, do undergraduate research, write a thesis (probably during the senior year), and participate in small faculty-student honors seminars.

Learning Skills Center. The Learning Skills Center (LSC) provides academic advising, preparatory instruction in core courses (biology, physics, English, chemistry, and mathematics), and tutorial and study sessions. A pre-freshman year summer program gives new students an opportunity to pursue college courses before fall enrollment. The LSC has study hall accommodations and provides access to typewriters, calculators, a reserve library, course notes, previous examina-

tions, and tapes. Academic advising, including help in specific areas of study, scheduling, or programming information, is provided by LSC staff to all minority students.

Reading and Study Skills Program. The Reading and Study Skills Program offers all students the opportunity to acquire and improve the reading and study skills essential for academic success. Each semester the program offers six-week courses and three-week workshops in reading and study skills and instruction in the techniques of speed reading.

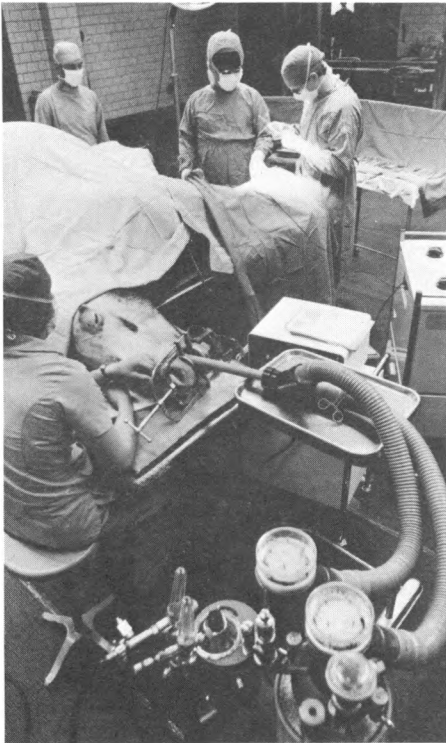
Writing Workshop. The Writing Workshop, in 150 Rockefeller Hall, offers a wide range of services for students seeking help with writing. Tutorial classes are available for those who need intensive course work in composition; any student writing a paper may use the workshop's walk-in service; and writing assessment sessions are offered to freshmen during orientation.

Business and Preprofessional Study

Undergraduate Business Study

Undergraduate preparation for business is available in many schools and colleges at Cornell. Students most frequently take courses in more than one area, as well as in related fields, to construct a program to suit their interests and career objectives. Each of the following areas provides a different focus for application and use of business study and training, and students should consider carefully the implications of each program when making a choice:

Applied economics and business management. Marketing, finance, food distribution and management, agricultural economics, farm business management, resource economics, and business management are examples of areas available in the College of Agriculture and Life Sciences. There is more emphasis on the application of these areas than on the theoretical aspects of economics. Graduates enter a wide variety of business fields or pursue master's degree programs.



Economics. This program, in the College of Arts and Sciences, provides a broad view of that social science concerned with the description and analysis of the production, distribution, and consumption of goods and services, the understanding of monetary systems, and the comprehension of economic theories and models. It is viewed more often as pre-professional than as training for immediate practice in business or economics.

Engineering. This area provides much of the management personnel of modern industry. Engineers frequently climb the ladders of technological management, which lead to general management responsibilities; more than half the management-level personnel of major corporations have engineering degrees. In addition, many students who enter engineering anticipate graduate business education, judging that an engineering background is particularly appropriate for management in a technology-oriented society. Study in operations research and industrial engineering is particularly appropriate for those anticipating a business management career. The curriculum focuses on the design of integrated, cost-effective systems of people, materials, and equipment for manufacturing industries, public and private service organizations, and consulting firms.

Hotel administration. This undergraduate program provides managers for the hospitality industry. Capability for management of motels, hotels, condominiums, restaurants, clubs, and hospitals and land and facility development is developed through instruction in personnel and general administration, financial management, food and beverage service, and communications. Students interested in the School of Hotel Administration must have commitment to this area of study.

Consumer economics and housing. This program, in the College of Human Ecology, emphasizes the economic behavior and welfare of consumers in the private, public, and mixed sectors of the economy. There is an option for a concentration on housing. Study is aimed at an understanding of economics, sociology, and government policy as they apply to consumer problems.

Industrial and labor relations. The world of work, especially the employee-employer relationship in the broadest sense, including the political, social, and economic forces affecting the relationship, is studied. Graduates can pursue immediate employment in industry, government, and labor organizations or choose graduate study in industrial and labor relations or such related fields as law and business and public administration.

Related areas. Courses in areas directly related to these business programs are found in many of the University departments. For example, quantitative methods may be studied in the Departments of Mathematics and Computer Science, and courses in public administration are found in the Departments of Government and City and Regional Planning. There are additional programs that allow students with an interest in business to focus on a particular geographic area. Examples are the Latin American Studies Program, the South Asia Program, and the Africana Studies and Research Center. Such interdisciplinary programs as the Program on Science, Technology, and Society and the various programs in international agriculture provide additional opportunities for study of interest to business students.

Combined degree programs. Because Cornell has the Graduate School of Business and Public Administration, special opportunities exist here for highly qualified undergraduates to combine their undergraduate programs with graduate

study in that school. Students in the dual-registration program generally receive a bachelor's degree after four years of study and a Master of Business Administration, Master of Public Administration, or Master of Professional Studies (Hospital and Health Services Administration) degree after the fifth year of study rather than the normal sixth year. Students in all Cornell undergraduate colleges and schools are eligible to explore this option. There is also a program with the College of Engineering that allows qualified students to earn a Bachelor of Science, M.B.A., and Master of Engineering in six years. Admission to these combined degree programs is limited to particularly promising applicants. Careful planning is required for successful integration of the work in the two areas.

Prelaw Study

Law schools do not prescribe any particular prelaw programs; nor do they require any specific undergraduate courses. Law touches nearly every phase of human activity, and so there is practically no subject that can be considered to be of no value to the lawyer and no undergraduate course of study that can be judged totally inappropriate. Prelaw students should, however, be guided by certain principles when selecting college courses.

First, interest encourages scholarship, and students will derive the greatest benefit from those studies that stimulate their interests.

Second, of great importance to the lawyer is the ability to express thoughts clearly and cogently, in both speech and writing. Courses in the Freshman Seminar Program, required of nearly all Cornell freshmen, are designed to develop these skills. English literature and composition and communication arts courses also serve this purpose. Logic and mathematics develop exactness of thought. Also of value are economics, history, government, and sociology, because of their close relation to law and their influence on its development; ethics, because of its kinship to guiding legal principles; and philosophy, because of the influence of philosophic reasoning on legal reasoning and jurisprudence. Psychology leads to an understanding of human nature and mental behavior. Some knowledge of the principles of accounting and of the sciences, such as chemistry, physics, biology, and engineering, is recommended and will prove of practical value to the lawyer in general practice in the modern world.

Third, cultural subjects, though they may have no direct bearing on law or a legal career, will expand students' interests, help cultivate a wider appreciation of literature, art, and music, and make better educated and more well-rounded persons.

Finally, certain subjects are especially useful in specialized legal careers. For some a broad scientific background—for example, in agriculture, chemistry, physics, or engineering—when coupled with training in law, may furnish qualifications necessary for specialized work with the government, for counseling certain types of businesses, or for a career as a patent lawyer. A business background may be helpful for those planning to specialize in corporate or tax practice. Students who anticipate practice involving labor law and legislation might consider undergraduate study in the School of Industrial and Labor Relations. Whatever course of study is chosen, the important tasks are to acquire perspective, social awareness, and a critical cast of mind; to develop the ability to think logically and analytically; and to express thoughts clearly and forcefully. These are the crucial tools for a sound legal education and successful career.

The presence of the Cornell Law School on campus provides the opportunity for a limited number of highly qualified undergraduates registered in the College of Arts and Sciences at the University to be admitted to the Law School. At the time of entry they must have completed 105 of the 120 credits required for the Bachelor of Arts degree, including 92 credits of course work in the College of Arts and Sciences.

Premedical Study

Medical and dental schools, while not requiring any particular major course of study, do require that certain undergraduate courses be completed. These courses usually include chemistry and organic chemistry, biology, physics, and a year of English composition (or a freshman seminar). In addition, many medical schools require or recommend at least one course in advanced biological science, such as genetics, embryology, histology, or physiology.

There is no major program that is the best for those considering medical or dental school, and students are therefore encouraged to pursue their own intellectual interests. Students are more likely to succeed at, and benefit from, subjects that interest and stimulate them, and there is no evidence that medical col-

leges give special consideration to any particular undergraduate training beyond completion of the required courses. In the past at Cornell most successful applicants to medical and dental schools have been enrolled in the Colleges of Arts and Sciences and Agriculture and Life Sciences, but there are also premedical students in the Colleges of Engineering and Human Ecology. The appropriate choice depends to a great extent on the student's other interests.

Qualified students in the Colleges of Agriculture and Life Sciences, Arts and Sciences, and Human Ecology may apply for acceptance into a dual-registration program arranged between Cornell University and the Cornell University Medical College in New York City. This program allows registered students to save one year in pursuit of the bachelor's and M.D. degrees. Further information about this program is available from the Health Careers Program at the Career Center, 14 East Avenue.

Preveterinary Study

There is no specific preveterinary program. Students interested in veterinary medicine as a career should select an area for study that suits their interests and meets the entrance requirements for veterinary college listed below. Most preveterinary students enroll in the College of Agriculture and Life Sciences, although some enter other divisions of the University, especially the College of Arts and Sciences, because of secondary interests or the desire for a broader undergraduate curriculum.

The college-level prerequisite courses for admission to the New York State College of Veterinary Medicine at Cornell are English, biology or zoology, physics, inorganic chemistry, organic chemistry, biochemistry, and microbiology. All science courses must include a laboratory. The college also requires demonstrated proficiency in written and spoken English and encourages college-level work in mathematics. These requirements, necessary for admission to the New York State College of Veterinary Medicine at Cornell, may vary slightly at other veterinary colleges.

For information on additional preparation, including work experience and necessary examinations, students should consult the catalog of the New York State College of Veterinary Medicine, obtained by writing to Cornell University Announcements, Research Park.

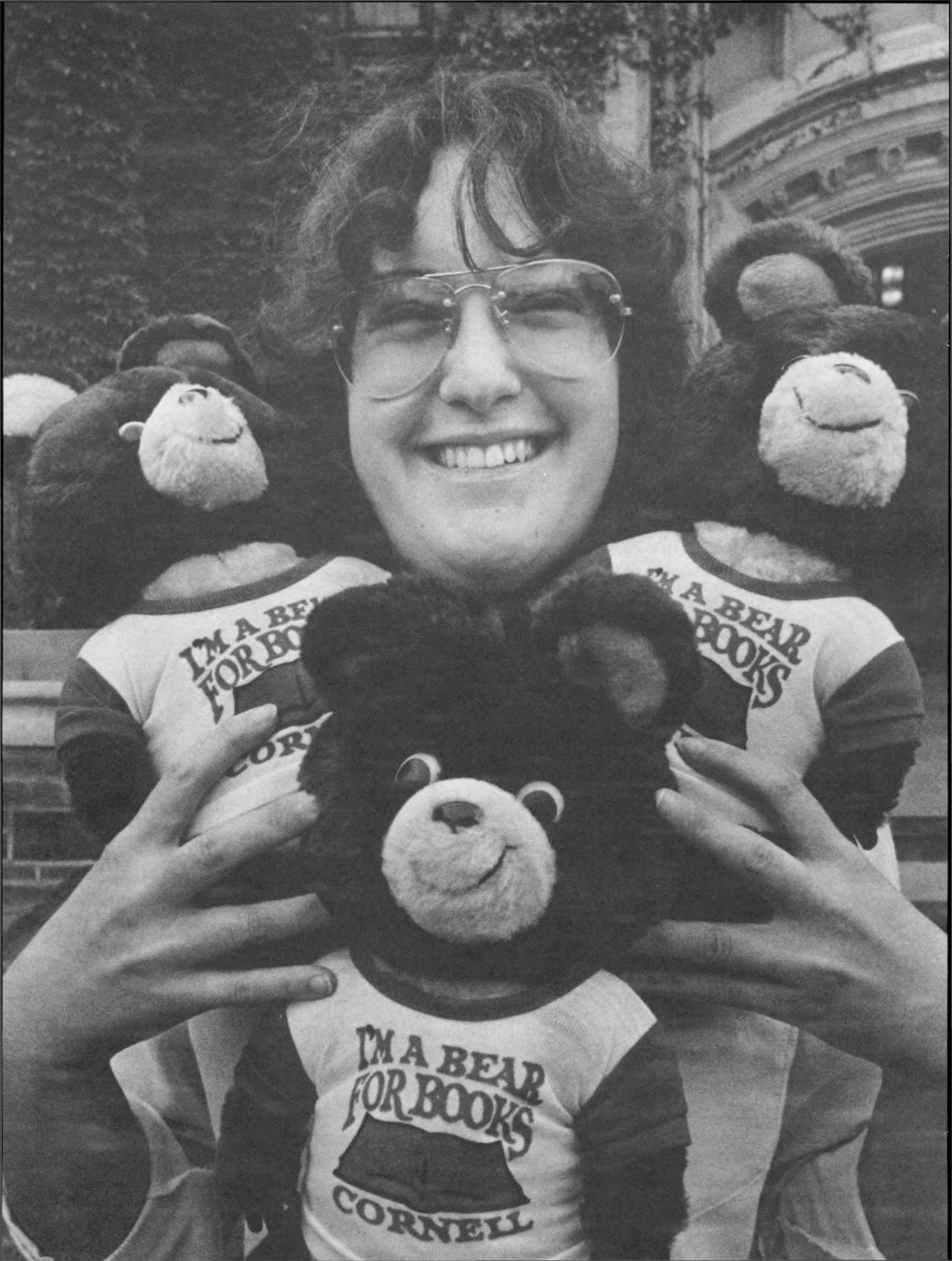
Officer Education

Instruction in officer education is provided by the Department of Military Science (army ROTC programs), the Department of Naval Science (naval ROTC programs), and the Department of Aerospace Studies (air force ROTC programs). Further information is given in the *Announcement of Officer Education*, obtained by writing to Cornell University Announcements, Research Park. Details about the specific programs, including scholarships and active-duty requirements, may be obtained by writing to the commanding officer of the department concerned, in Barton Hall.

Career Services

Career planning and placement services exist throughout the University. The organizational network of offices that provide these services have facilities in the seven undergraduate schools and colleges. These offices are independent operations that function in cooperation with the Career Center. Each office addresses individual needs of students enrolled in the college it represents. Some of the services offered by these offices include on-campus recruiting, job-hunting seminars, and individual counseling. The slogan adopted by the Career Center, the central career planning and placement office, is "Bring Your Future into Focus"; this slogan is indicative of the philosophy shared by each office on the Cornell campus.

The services offered through the Career Center cover nearly every dimension of the career-planning process. Professional counseling, information, and advice is available on all aspects of career planning, including specific information on career exploration, fellowships, graduate and professional study, health careers, internships, on-campus interviewing, job hunting, minority opportunities, and travel and study abroad. The Career Center's facilities, programs, and activities include the Career Center Library, the Academic and Career Counseling Service, graduate and professional school advising, a health careers advising program, minority career planning and placement, job placement services, and a listing in the daily newspaper of programs and events sponsored by this and other placement offices. The Career Center is located in Sage Hall, 14 East Avenue, across the street from the Statler Inn.



L suppose the most striking thing about university life is how different it is from high school. It's not only that the campus is much larger, or that there are many more students; they are a startlingly cosmopolitan group, there is a bewildering variety of courses, programs, activities, and societies from which to choose, and there is a heady degree of freedom, made even more exhilarating by the community itself.

Each of these features presents a challenging opportunity, but collectively they can appear overwhelming. What is needed is a strategy for coping with them, so that they contribute to the richness of college life rather than being an obstacle to it.

Frank H. T. Rhodes, president of Cornell University, to his daughter as she began her freshman year



Cornell is dedicated to serving its community, to education for life, and to encouraging human development in its richest diversity. But the dimension and the scale have now changed. Cornell's community is now the world.

Adlai E. Stevenson

Most students who enter Cornell remain here until they earn their degree. In the fall of 1980, 78.8 percent of the students who entered the private undergraduate units (architecture, art, and planning; arts and sciences; engineering; and hotel administration) in 1975 had either graduated or were still enrolled. In the state-supported units (agriculture and life sciences, human ecology, and industrial and labor relations) 80.0 percent had graduated or were still working toward a Cornell degree.

The freshman year is a microcosm of the college experience. It is full of newness and varies from student to student, yet it is indeed a stepping-stone. New students who grasp the opportunities and challenges of college years will be well prepared to meet future challenges.

The Freshman Year

Cornell staff and students arrange orientation activities and other programs to help new students develop these "strategies for coping." Orientation, scheduled for the days just before the start of fall semester, introduces new students and their parents to Cornell and helps them feel part of the University. There are social and recreational activities that provide opportunities to meet fellow students and other programs that cover the academic side of college life, such as library tours and meetings with faculty advisers. Orientation counselors, upperclass student volunteers, are especially helpful throughout the first few months of adjustment. There are others to consult as well. In addition to faculty and peer academic advisers, each residence hall is staffed by a professional director and several undergraduate resident advisers.

Parents' Weekend is scheduled during the fall semester. This weekend is full of educational, cultural, social, and athletic events for families to attend together.

Perhaps the most exciting change for Cornell freshmen is in the learning environment. Many introductory courses have large enrollments. These lecture-style classes are accompanied by a small laboratory or discussion meeting each week

and are taught by some of Cornell's most eminent scholars. Although it may seem difficult to ask questions in this setting, teachers encourage questions after class, during labs, and during discussion sections. Beyond the introductory level, as students begin to specialize and explore, most courses are much smaller. Freshmen also take a freshman seminar, with fewer than twenty other new students each semester. These seminars provide close interaction between the students and the faculty member, as both the course topic and writing skills are discussed. There are over a hundred freshman seminars available, with topics ranging from science writing to Viking history.

Another characteristic of institutions like Cornell is what is often referred to as a competitive academic atmosphere. Most Cornell students are highly motivated and set high goals for their academic lives as well as for their other pursuits. Cornell's curriculum is vigorous and stimulating. The faculty members have high standards, yet academic competition results primarily from the students' personal drive. Many students are challenged by this spirit, as well as by the quality of instruction.

Transfer Students

Transfer students may experience some of the same feelings as freshmen and may need to adjust to the differences between Cornell and previous colleges. They participate in the University's orientation program; there are also special orientation activities that address the unique needs of transfer students.

Transfer students live in both on-campus and off-campus housing facilities. The Transfer Center in Clara Dickson Hall and the Transfer House near North Campus organize activities and programs for all transfer students. It takes some extra effort initially to make friends, as it does for all new students. Transfers generally adjust quickly to academic and social life at Cornell. They become active participants in University life, taking advantage of Cornell's various resources. Whether a student's stay at Cornell spans two, three, or four years, it can be an exciting and fulfilling experience.

Academic and Intellectual Life

Cornell students enjoy studying and doing research in the Cornell University Libraries, one of the major academic library systems in the country. The fifteen campus libraries contain well over four million volumes and currently subscribe to some 52,000 periodicals. Students are entitled to use all the libraries on campus, and access to the book stacks is readily available. The libraries are open long hours, some until midnight.

At the south end of the Arts Quad is Uris Library, the building with the tower that has become the symbol of Cornell. Uris particularly serves undergraduate students taking liberal arts courses. Across the walk from Uris is the John M. Olin Library, devoted more specifically to graduate and faculty research, yet providing resources for everyone. In addition to these facilities and the central card catalog, there is an extensive system of college and school libraries. Chief among them is Albert R. Mann Library. Located at the east end of the Ag Quad, Mann Library holds half a million volumes, including the research library of the Colleges of Agriculture and Life Sciences and Human Ecology.

Computers are rapidly becoming integrated into academic life as an increasingly important part of instruction and research. Cornell now has four mainframe computers, three IBMs and a DEC 2060. They connect with eight public terminal sites in different areas of the campus and provide two hundred interactive terminals for student computing. There are also microcomputers at several of these sites, in addition to a microcomputer facility with thirty TERAKs, used primarily in introductory computing courses. The curriculum also reflects the campus emphasis on computer literacy. For example, a freshman seminar, *Mastering the Essay*, is described as a composition course using the computer; an instructional computing laboratory provides the class with both interactive terminals and monitors. Accounts are available from Cornell Computer Services in Uris Hall to introduce incoming students to the wide array of computing opportunities.



The faculty of Cornell numbers over eighteen hundred and includes many who are recognized internationally as leaders in their fields. Well-known figures, including poet Archie Ammons, economist Alfred Kahn, chemistry Nobel laureate Roald Hoffmann, writer Alison Lurie, composer Karel Husa, astronomer Carl Sagan, ornithologist Thomas Cade, and developmental psychologist Urie Bronfenbrenner teach fundamentals to their students and probe the esoteric with them. Since the University has always assigned a high priority to the quality of its undergraduate programs, no distinction is made between the graduate and undergraduate faculty, and it is not uncommon to find department chairpersons teaching introductory classes and prominent scholars offering courses for general enrollment. The vitality of the Cornell faculty and programs also attracts a constant succession of visiting scholars from other institutions.

Contact with Cornell faculty members is an important part of the Cornell experience. Faculty members are not only distinguished teachers and researchers; they are also accessible advisers to undergraduates. You may get to know an individual professor because of a shared academic or nonacademic interest. Faculty members hold office hours, and many departments have regular brown bag lunch seminars for faculty members and students. Since Cornell is a major research institution, there are ongoing research projects in many fields. Interested and motivated students get involved in research activities for credit, as part of work-study employment, or as a volunteer experience.

Learning, like contact with faculty members, is not confined to the classroom, laboratory, or seminar room. Cornell students in many fields of study participate in fieldwork programs, internships, engineering cooperative programs, or independent or group research projects; credit is often given for these experiences. Students live and work in Albany, Washington, D.C., New York City, and other places where they can best learn about the work of government, community organizations, businesses, and industries. In addition, study at colleges and universities in other countries is pursued by many students each year. There are some formal exchange programs with colleges overseas, but students often make their own arrangements for one or two semesters of study in absentia.

Opportunities for exposure to a variety of art forms, cultures, and topics are as much a part of student life at Cornell as are course work and research papers. For example, dozens of extracurricular lectures are given each week, ranging from scholarly presentations on a specific subject to talks with campuswide appeal by well-known speakers.

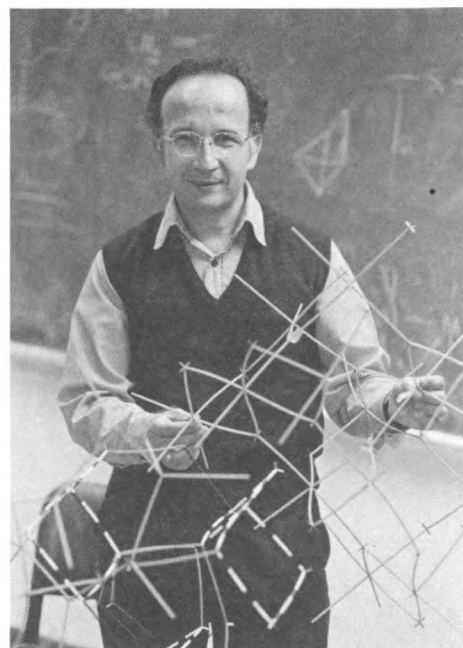
Cornell students have many opportunities to attend or participate in theatrical and dance productions. Theatre Cornell presents a full season of classical, modern, and experimental dramas. There is also a studio theater run entirely by students, the Risley Residential College's theater, and the Cornell Savoyards, who produce Gilbert and Sullivan operettas. Informal and formal dance programs are presented each year by student dancers and choreographers and by touring dance companies.

Students who want to participate in music making can find many opportunities through the Sage Chapel Choir, the Cornell Chorus, the University Glee Club, the University orchestras and bands, chamber music ensembles, the Opera Workshop, the Collegium Musicum, the Indonesian Gamelan, and several other musical organizations.

The University Faculty Committee on Music sponsors programs by visiting soloists and major orchestras in the Bailey Hall Series, string quartets and other groups in the Statler Series, and occasional operas, ballets, and special events. Several times each month the Department of Music sponsors free concerts and lectures by visiting artists or by Cornell faculty members and students. The Cornell Concert Commission offers a series of student-produced rock, folk, soul, and jazz concerts. Local bluegrass and folk performers are featured in informal concerts such as weekly events in the Commons, a campus coffeehouse.

Exhibitions of various forms of art are part of the campus resources. The displays include works of students and visiting collections and the permanent University collection, housed at the Herbert F. Johnson Museum of Art. Other campus locations for art displays include the art room in Willard Straight, the Olive Tjaden Gallery in Olive Tjaden, the John Hartell Gallery in Sibley, and galleries in Goldwin Smith and Martha Van Rensselaer.

Throughout the year and on almost every night of the week educational and entertaining films can be seen on campus at reduced rates. There are also a half-dozen commercial theaters in Ithaca.



6 The Cornell Daily Sun

Monday, April 19, 1982

DAYBOOK

Quotation of the Day

"People have to become more sensitive to each other, we have to start listening to each other and peel back the terror that the young have inflicted on the elderly."

—Curtis Liwa, founder and director of the Guardian Angels.

NOTICES

Human Ecology Scholarship — Applications available for the Fleischmann Scholarship, for upperclass Human Ecology students with career interests in communication arts and human ecology. Check Martha Van Rensselaer counseling office for details.

Off-Campus Housing — Legal Advising, Thursdays, 2:30 - 4:30 p.m., Dean of Students Office, Barnes 103. Call 256-5373 for an appointment.

Off-Campus Counselors — Be an O.C.C. Applications available at Straight Desk, Barnes 100 (COSEP), and Barnes 103. Call 256-5373 for more information.

Academic Survival Workshops — Study skills April 5-May 3, Mondays 4:30-5:30 p.m.; Reading skills April 12-21, Mondays and Wednesdays 3-4 p.m. Call 256-6310 or drop by 375 Olin Hall.

Women's Rugby Practice — Monday, Wednesday, and Friday, 4:30 p.m. in front of Helen Newman. New members welcome.

Rainy Day Magazine — Accepting poetry, fiction and art: Goldwin Smith 245.

Council of the Creative and Performing Arts — Accepting applications for creative and performing arts projects for 1982-3. Contact Anna Geske in the Andrew D. White House 102.

Survival Week — "The Experience of War-Two Films by John Huston," Including "Let There be Light," and "Battle of San Pietro," tonight, 7:30 p.m., Anabel Taylor Hall Auditorium.

Dance Workshops — Appalachian Clogging, 6:30 p.m., Contra, Square and Circle Dance, 7:30 p.m., tonight, Center Ithaca.

Alternative Energy Film — "Danish Energy," Community Self-Reliance Center, tonight, 7:30 p.m., 140 West State Street.

Southeast Asia Films — Three films on the lives of children in rural and urban Thailand, and the Philippines, tomorrow, 4:00 p.m., 106 Morrill Hall.

African Film — "Namibia: A Case Study in Colonialism," tomorrow, 8 p.m., Hollis Cornell Auditorium.

Greek Honorary — Order of Omega applications available at the Straight desk or IFC office, the Straight 210, Deadline: April 23.

Arts Students — Course scheduling for Fall 1982, through April 23. Pick up materials in Goldwin Smith 142.

McNeil Summer Internships — State government research projects for 20 college juniors and seniors. Contact Assemblyman H. Sam MacNeil's Intern Office, Room 829A, Legislative Office Building, Albany, N.Y. 12248.

Big Brother-Big Sister — Volunteers needed. For information call 257-5881, 256-7822 or 256-7922.

Museum Interns — The Herbert F. Johnson Museum of Art is now accepting applications for student interns, through April 23. Apply at lobby desk.

Ecology House — Recycling newspaper, colored paper, clean glass and aluminum. Call 256-5305 for more information.

Seniors — Register now for your FREE, required graduation regalia at the Student Agencies Office or at the SAI General Store in College town. Masters and Ph.D. regalia also available.

Guaranteed Student Loans — Applications for next year being accepted by loan office in Day Hall 203. Deadline for state loan applications for '81-'82 is May 1, 1982.

Praxis Magazine — Now accepting submissions of fiction, non-fiction and artwork. Place material in Praxis boxes behind Browsing Library desk and in Goldwin Smith 254.

Human Ecology Students — Course registration for Fall 1982 through April 24. Pick up materials in the Martha Van Rensselaer Foyer.

Straight Administrative Board — Applications available at Straight Desk, due April 22.

LECTURES

Today

"The Politics of Occupational Health and Safety" — Tony Mazzocchi, international representative of the Oil, Chemical and Atomic Workers Union, 4:30 p.m., 110 Ives Hall.

Russian Literature — "Bakhtin and Buber: Problems of Dialogic Imagination," Nina Perlina, Mellon Fellow, Russian literature, 3:30 p.m., Goldwin Smith 177.

Nuclear Power in India — "Aspects of India's Nuclear Programs," K. Subrahmanyam, Institute for Defense Studies and Analysis, New Delhi, 12:15 p.m., Uris Hall 153.

Ecodevelopment — "Ecodevelopment: The Case of Tropical Islands," Ed Towle, Island Resources Foundation, St. Thomas, 12:15 p.m., Uris Hall 340.

Western Societies — "The Language of Protest in Sixteenth Century Rural Society," Gunther Lottes, Friedrich-Alexander University, 4:30 p.m., Ives 217.

Government — "Consequences of Party Reform," Prof. Nelson Polsby, political science, University of California at Berkeley, 4 p.m., McGraw 145.

Rural Sociology — "Native Americans in Contemporary Canada: Issues of Policy and Research," Katie Cooke, Institute of Canadian Studies, Canada, 12:20 p.m., Warren 32.

Anthropology — "The Graying of Japan: The Problems of Elderly Women," Toshiko Sunada, Japanese journalist, 4:30 p.m., McGraw 305.

MEETINGS

Today

Community Against Sexism — 8 p.m., Commons Coffee House, Anabel Taylor Hall.

Alpha Phi Omega — General Membership, 7 p.m., Willard Straight Hall Loft 2.

Campus Life and Activities

The nonacademic side of each student's life can be as rich in diversity and depth as the academic side. Cornell students have opportunities to relax and socialize together, to discuss worldwide or campus concerns, to develop their own living communities, and to pursue other interests.

The enrichment of the human contacts of student life is the objective of the University departments that coordinate campus activities and services for Cornell students. There are over four hundred student organizations. Some fit under conventional headings, such as music, recreation, religion, and social action groups. Others are harder to classify—International Brotherhood of Magicians, Wargamers, and Classics Discussion Group, to name a few. Among the clubs are those for persons with similar academic interests or hobbies, local chapters of professional associations, associations of international students, and a number of national honoraries that recognize scholarship and service. If an interest group does not now exist, persons with shared interests can readily establish one.

For many students fraternity or sorority life is an integral part of their Cornell experience. There are fifty fraternities with 37 percent of the male undergraduate students as members and twelve sororities with 22 percent of the female undergraduate students as members. As one of the largest Greek systems in the country, diversity is the key to its continuing growth. While satisfying room and board needs for students, fraternities and sororities provide opportunities for friendship, leadership, and personal growth.

Cornell's system of campus government consists of four deliberative bodies representing the University population as a whole and its three major components: students, faculty members, and employees. This system recognizes the diversity and the unity that are basic to the life of any academic community. The Student Assembly consists of twenty-three students elected by the student population, and it has legislative authority over the policies of Cornell Dining, the Department of Residence Life, the Department of Unions and Activities, and the Office of the Dean of Students. The University Assembly focuses on matters concerning the entire campus community; its delegates are drawn from the Student Assembly, the Employee Assembly, and the Faculty Council of Representatives.



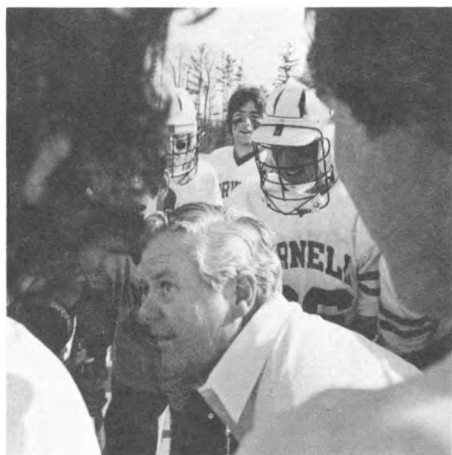
Cornell students edit and publish a number of publications, including an independent daily newspaper, the *Cornell Daily Sun*. They are involved in printing a yearbook, literary magazines, humor magazines, and magazines relating to special fields, such as the *Cornell Engineer* and the *Cornell Countryman*.

The Department of Unions and Activities coordinates resources for educational and recreational activities outside the classroom. Three University union buildings serve as campus community centers: Willard Straight Hall, Robert Purcell Union, and Noyes Center. These facilities include a theater, a browsing library, lounges, darkrooms, rooms for social gatherings and meetings, information centers, convenience stores, game rooms, music listening and practice rooms, and dining halls. Several student organizations run social, cultural, recreational, and educational programs in union facilities and other campus buildings.

The Third World Student Programming Board presents events to highlight minority and ethnic cultures. The Experimental College offers students and other members of the campus community a wide variety of noncredit courses in dance, poetry, photography, mime, yoga, and other interesting subjects.

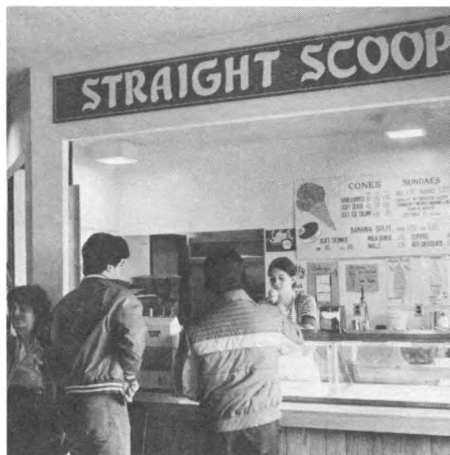
It is almost impossible to generalize about the social lives of Cornell students. The ways Cornellians spend their leisure time is as diverse as their academic interests or personal backgrounds. Some students are involved in campus politics, while others are concerned with the world hunger problem. Some may prefer to attend a performance of a jazz band at a coffeehouse, while others never miss a classical music concert, an art exhibit opening, or an athletic event. Although Cornell students place a high priority on their academic commitments, they make time for social experience with colleagues and friends.

Ithaca is a small yet cosmopolitan city with many unique opportunities for its permanent residents and for Cornell and Ithaca College students. The natural environment, with its waterfalls, gorges, lake, and rolling hillsides, is a grand setting for recreation and relaxation. Cultural activities in town complement the busy schedule on campus. Ithaca's residents are probably its greatest resource: the people combine their talents and interests to mold an exciting community.



Athletics

At Cornell athletic programs have been designed to meet the needs of every student who wants to participate. The Department of Physical Education and Athletics has three components: physical education for men and women, intramurals, and intercollegiate athletics. With a few exceptions, all freshmen must complete two terms of physical education and pass a basic swimming test. There are about seventy physical education courses from which to choose, including basketball, bowling, downhill skiing, jogging, squash, and weight lifting. Intramurals give students the chance to compete in team sports. Last year almost 31,000 contestants made up over two thousand teams in 190 leagues that included dormitory, graduate, independent, and coeducational teams. The variety of sports in this program is unusual: box lacrosse, broomstick polo, horseshoes, inner-tube water polo, and sailing, as well as the more traditional sports, such as softball, touch football, and wrestling.



At the most advanced level of competition is intercollegiate athletics. Cornell supports one of the largest programs of varsity sports in the country and is a member of the Ivy League, the ECAC, the NCAA, and the AIAW. There is intercollegiate competition for men in baseball, basketball, crew, cross-country, fencing, football, golf, hockey, lacrosse, lightweight football, polo, riflery, sailing, skiing, soccer, squash, swimming, tennis, track, and wrestling. Women's intercollegiate teams include basketball, bowling, crew, cross-country, fencing, field hockey, gymnastics, ice hockey, lacrosse, polo, sailing, skiing, swimming, tennis, track, and volleyball.

Athletic and recreational facilities include an indoor ice rink, two competition-sized indoor pools, a golf course, playing fields, squash courts, indoor and outdoor tennis courts, crew tanks, gymnasiums, and a riding arena.

Housing and Dining

Living arrangements at Cornell are flexible, and students are permitted to live on or off campus. Some students prefer to live on campus, just a few minutes away from classes, the libraries, an evening concert, a lecture, or a film. Others prefer to rent apartments or rooms nearby in the Ithaca community or live in fraternities or sororities. The University provides numerous residence halls, accommodating about 5,600 single undergraduate and graduate students. These residence halls offer substantial variety in size, style, and type of living arrangement. There are single rooms, double rooms, triple rooms, suites, and a few apartments. Some halls are reserved for women or men, and others are coeducational.

Students are assured of on-campus housing for the freshman year. After the first year a lottery system is used to match interested students with rooms in residence halls. There is some on-campus housing available for new transfer students each year.

In addition to the large, traditional residence halls, there are small units that provide an opportunity for cooperative living arrangements for upperclass students. Special living units are reserved for students who share a particular interest, such as ecology or the performing arts.

Unfurnished apartments for 420 students and their families are available in three apartment complexes. Requests for further information should be directed to the Family Housing Office.

The off-campus housing office has information about rooms and apartments available in the Ithaca area. The staff serves both undergraduate and graduate students and provides programs and activities for students living off campus.

Cornell maintains dining services in ten locations: Willard Straight Hall, Robert Purcell Union, Noyes Center, Balch Hall, Sage Hall, Hughes Hall, Noyes Lodge, Risley Hall, the Statler Student Cafeteria, and the Red Bear Cafe. These facilities are open to all students on a cash or credit basis, whether or not they live in University residence halls or subscribe to a specific dining plan. The University has no dining requirement; students may eat when and where they choose.

Cornell's Co-op Dining program has been acclaimed as one of the most convenient and flexible programs in the country. Students choose from a wide range of prepaid options. Members of the Co-op Dining plan may eat at any of six dining areas. Those who miss dinner may

eat at a designated unit until 10:00 p.m.

Cornell Dining also operates a grocery store on campus, the Pick-Up Store in the lower level of Noyes Lodge.

Student Services

The Office of the Dean of Students is the University office concerned with all aspects of student life. The staff of advisers help students with whatever problems arise and make referrals to appropriate professionals on campus. Staff members advise fraternities and sororities and help with peer-counseling programs. The office also sponsors sex and drug education programs, special programs for married students, personal growth workshops, and orientation for new students.

"Freedom for all; domination by none" is the guiding principle under which religious affairs operate at Cornell. Cornell United Religious Work (CURW) provides a vehicle for cooperative religious work on campus. A diverse staff of pastoral counselors and advisers are available day or night. CURW member groups are AME Zion, Baha'i, Catholic, Christian Science, Episcopal, Evangelical, Friends, Jewish, Latter-Day Saints, Lutheran, Muslim, Eastern Orthodox, Unitarian Universalist, United Ministry (Baptist, Disciples of Christ, Reformed, United Church of Christ, United Methodist, and United Presbyterian), and the Wesley Foundation. These groups offer daily or weekly opportunities for worship, study, pastoral care, retreats, recreation, and social service and social action. Many students are also members of Ithaca area congregations.

The Committee on Special Educational Projects (COSEP) offers several programs to support minority students at Cornell. Students from ethnic minority groups make up almost 15 percent of the undergraduate population. COSEP coordinates academic, tutorial, and counseling support services, provided through a central staff and the individual colleges. The COSEP staff also concerns itself with student needs such as work-study and leadership training and provides assistance to student groups in financial budgeting and program planning. Extracurricular activities of particular interest to minority students are part of the diversity of campus life at Cornell.

The International Student Office serves the more than thirteen hundred foreign students at Cornell, three hundred of whom are undergraduates. The office works with thirty national and cultural clubs, oversees the Host Family Program, and services the needs of Cornell's inter-



national student population. The office deals with questions about immigration regulations, arrival services, orientation, adjustment to Cornell, and health insurance.

The Department of University Health Services (UHS) offers the following to all full-time students in Ithaca: (1) unlimited visits to Gannett Health Center; (2) overnight care at the center; (3) after-hours and emergency care; (4) ordinary laboratory tests, X-ray examinations, and physiotherapy services performed on site, as ordered by UHS physicians; (5) counseling services at the center and

in the Psychological Service; and (6) sex counseling. The medical staff consists of attending physicians from the UHS staff and consulting physicians and surgeons in the various medical fields from Ithaca and the vicinity.

Cornell University is committed to assisting those handicapped students who have special needs. A brochure describing services for the handicapped student may be obtained by writing to the Office of Equal Opportunity, 217 Day Hall. Questions or requests for special assistance may also be directed to that office.

Table 2. Directory of Student Services

Bursar	260 Day Hall	256-2336
Career Center	14 East Avenue	256-5221
Counseling	103 Barnes Hall	256-3608
Dining	233 Day Hall	256-5392
Family housing	40 Hasbrouck Apartments	256-5333
Handicapped students	217 Day Hall	256-5298
Health	Gannett Health Center	256-5155
Information and Referral Center	Lobby, Day Hall	256-6200
International students	200 Barnes Hall	256-5243
Off-campus housing	103 Barnes Hall	256-5373
Office of the Dean of Students	103 Barnes Hall	256-4221
On-campus housing	1142 North Balch Hall	256-5368
Orientation and new-student programs	103 Barnes Hall	256-4131
Religious affairs	118 Anabel Taylor Hall	256-4214
Student activities	533 Willard Straight Hall	256-4180
Traffic Bureau	116 Maple Avenue	256-4600

Note: All telephone numbers begin with the 607 area code.



The process of choosing a college or a university is a complicated, important, and exciting one; so too is that of choosing the students for the next year's enrolling class.

Admission decisions involve the review of both objective and subjective materials. The most important criteria for admission to Cornell University are intellectual potential and commitment—a complex combination of ability, achievement, motivation, diligence, and use of educational and social opportunities. Nonacademic qualifications are important as well. The University seeks individuals with outstanding personal qualities and a record of significant involvement in extracurricular activities.

Both faculty members and students benefit academically and personally from a diverse student body. The colleges and schools at Cornell admit men and women of many social, economic, and cultural backgrounds, racial and national identities, and special talents. Selection committees evaluate students' achievements and potential, seeking to admit those who will best contribute to, and benefit from, the environment of Cornell. Students with unusual talents and achievements in music, acting, creative writing, science, athletics, politics, and other areas may want to provide additional information to the committees.

It is the policy of Cornell University actively to support equality of educational and employment opportunity. No person shall be denied admission to any educational program or activity or be denied employment on the basis of any legally prohibited discrimination involving, but not limited to, such factors as race, color, creed, religion, national or ethnic origin, sex, age, or handicap. The University is committed to maintaining affirmative action programs which will assure the continuation of such equality of opportunity.

Students may submit only one application to Cornell for a given semester. Freshman applicants do have the option of indicating a school or college of second choice. Each applicant competes only with those seeking admission to the same Cornell unit. Each school or college has its own selection committee, offering admission to those who best demonstrate the potential to benefit from the Cornell



If there is any intangible possession that distinguishes this university, it is the tradition of freedom united with responsibility—freedom to do what one chooses, responsibility for what it is that one chooses to do.

**Carl Becker, John Wendell Anderson
Professor of History**

experience. Those schools and colleges that focus on professional programs select students who, having met all other qualifications, show the most compelling evidence of their commitment to, and awareness of, the field. Because the number of qualified applicants exceeds the number of spaces available, all the undergraduate units must limit their enrollment.

Criteria for Selection

Academic competence. Cornell University is devoted primarily to the intellectual development of its students. Those selected for admission have demonstrated the intellectual capacity to profit from the educational environment. Intellectual preparedness for study at Cornell is judged from the applicant's academic record, the recommendations of school authorities, and standardized college admission tests.

Extracurricular activities. While the basic requirement for admission is demonstrated intellectual capability, admission committees also note and evaluate evidence of an applicant's involvement in nonacademic areas. A student's participation in extracurricular

school and community activities, the use made of vacation periods, and work experience or other activities related to the applicant's professional objective are all significant features.

Character, personality, and motivation.

The intangible but important factors that form good character and an effective personality receive full consideration in the selection process. Evidence of strong motivation for attaining higher education and for pursuing a specific field of education is desirable. Capacity for leadership and concern for others receive due weight. The selection committee assesses these factors from the report sent by the applicant's secondary school and from interview reports, when available.

Geographical distribution. Cornell University prides itself on drawing its students from all parts of the United States and more than ninety foreign countries. The University believes in the educational values inherent in bringing to the campus persons of widely different backgrounds and directs its admission policies toward this end.

The undergraduate divisions financially assisted by New York State—the College of Agriculture and Life Sciences, the College of Human Ecology, and the School of Industrial and Labor Relations—recognize these same values and encourage applications from well-qualified out-of-state students. Most of their applicants do, however, reside in New York State. The private divisions—the College of Architecture, Art, and Planning, the College of Arts and Sciences, the College of Engineering, and the School of Hotel Administration—impose no restrictions regarding residence. Among applicants of approximately equal qualifications, some preference may be given to those whose homes are in areas underrepresented in the student body.

Children of alumni. The University wants to include among its students as many of the children of its alumni as existing admission competition will allow. In choosing between applicants of approximately equal qualifications, including scholarship, extracurricular activities, character, personality, and motivation, the son or daughter of an alumnus or alumna may

Profile of the Class of 1986

Applicants to Colleges and Schools

	<i>Applications</i>	<i>Acceptances</i>	<i>Enrolled Freshmen</i>
Agriculture and life sciences	2,606	937	605
Architecture, art, and planning	546	147	100
Arts and sciences	8,205	2,478	920
Engineering	4,608	1,184	555
Hotel administration	745	154	136
Human ecology	787	361	265
Industrial and labor relations	425	171	127
University total	17,922	5,432	2,708

Secondary Schools Last Attended by Applicants

	<i>Percentage</i>
Public	74.5
Private	19.7
Parochial	5.8

Male and Female Distribution of Entering Students

Male, 53 percent; female, 47 percent

Geographical Distribution of Entering Students

	<i>Percentage</i>
New England	12
New York	48
Middle Atlantic	18
Southeast	4
Midwest	8
Southwest	2
West	5
Foreign countries	3

Number of Matriculants with Need-based Financial Aid (Based on Class of 1985): 1,795

Sources of Financial Aid (Based on Class of 1985)

	<i>Estimated Total</i>	<i>Estimated Average Award</i>
Grants		
University	\$2,970,148	\$2,599
Federal	1,115,178	806
State	1,072,425	1,070
Other	585,878	4,013
Self-help		
Loans	3,050,195	2,021
Jobs	1,081,608	1,193
Total financial aid	\$9,875,432	

Average award: \$5,502

Number of Minority Students among Matriculants: 518 (18.6 percent)

Children of Cornell Alumni

Of alumni children who applied, 49.6 percent were accepted, and 295 enrolled.

receive preference in some divisions of the University. The Cornell relationship receives serious consideration by selection committees, although the statutory units, because of their New York State affiliation, cannot weigh this factor as heavily as the endowed divisions can.

Getting to Know Cornell

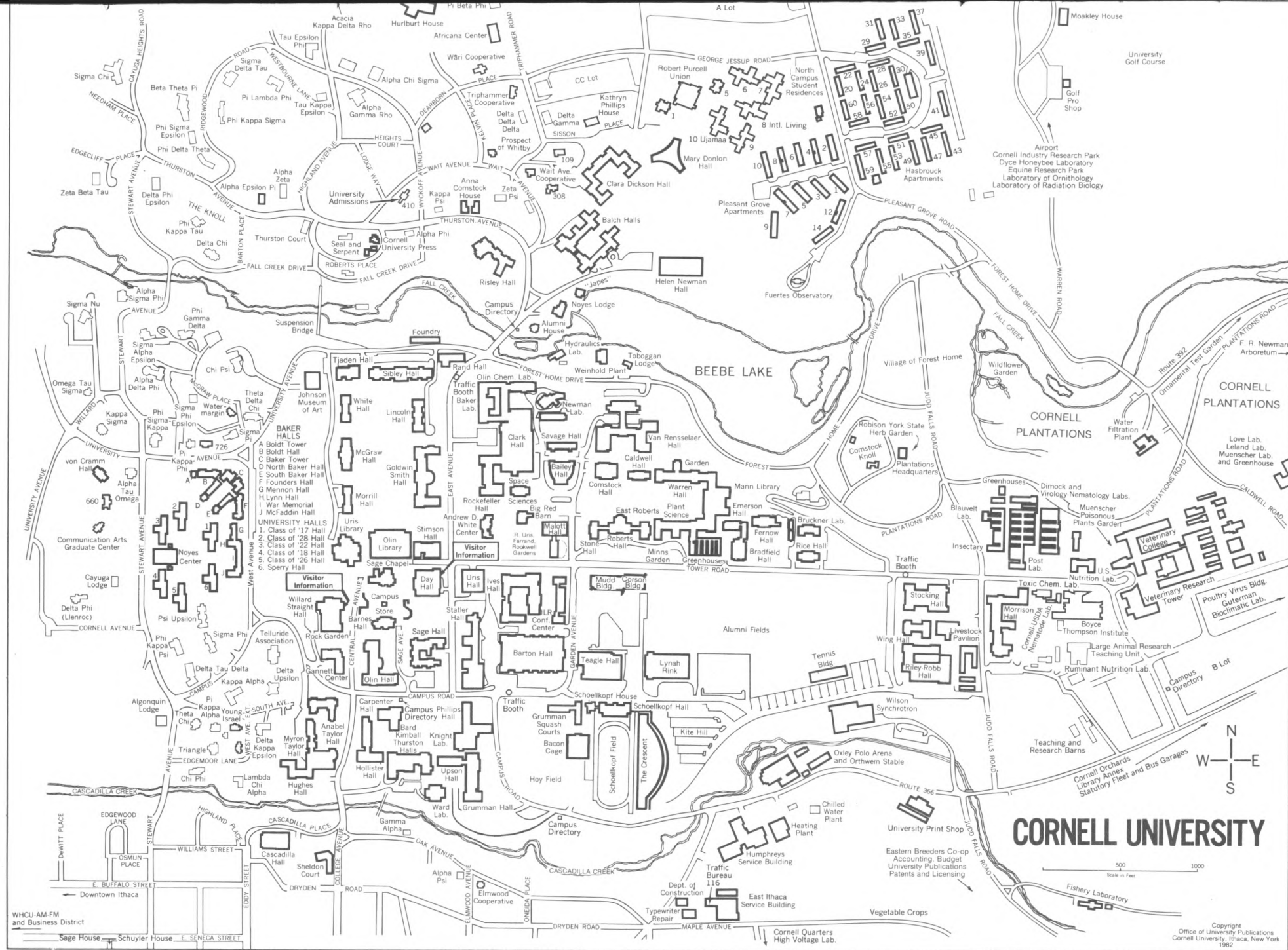
Prospective students and their families are encouraged to visit the campus and have discussions with members of the faculty or admission staffs and to become familiar with the University in a personal way. The University's Office of Admissions and the admission offices of the undergraduate schools and colleges offer a variety of opportunities for group conferences and individual interviews. All individual interviews are by appointment. Interested students should write or telephone suggesting a date and time, and alternates if possible, at least three weeks before the date requested. With sufficient notice, the colleges will arrange for prospective students to spend the night on campus with a student host.

Handicapped students who want to visit the campus can make special arrangements for interviews, attendance at group meetings, tours, student hosts, and other special needs by communicating well in advance with the assistant to the director of admissions, 410 Thurston Avenue (607/256-5050).

The Information and Referral Center assists students, faculty members, staff, and visitors by distributing informational literature, answering questions, and giving directions. Questions to which answers are not readily available are researched by the center staff. The center, located in Day Hall near the East Avenue entrance, is open Monday through Saturday from 9:00 a.m. to 5:00 p.m. (607/256-6200).

University Tours and Group Conferences

The Information and Referral Center conducts campus tours every day except certain University holidays. The tours, given by student guides, provide visitors with a general survey of Cornell's history, academic offerings, and facilities while showing them the beauty of the campus. During holidays and intersession periods it is advisable for visitors to call ahead to ensure that the tour they want to take will be offered. The tours leave from the front entrance of Day Hall on weekdays at



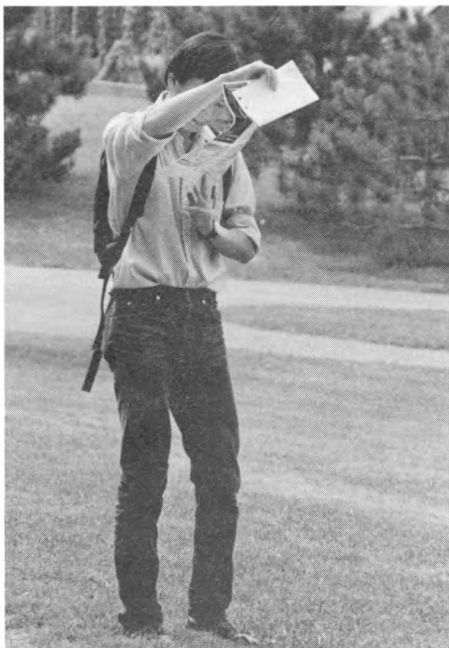
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Scale in Feet



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1982



11:15 a.m. (April 1 through October 31 only) and 1:30 p.m., on Saturdays at 11:15 a.m., and on Sundays at 1:00 p.m.

University group conferences are for those who have limited knowledge about the University or are unsure how their interest might best be accommodated by a Cornell undergraduate program. These sessions can help the prospective student identify the school or college that best matches his or her academic needs. Open to students, parents, and other interested persons, the conferences provide information on the admission process, financial aid, educational programs, and campus facilities and also provide an opportunity to ask questions. Sessions lasting from forty-five minutes to an hour are held throughout the year at the University's Office of Admissions, 410 Thurston Avenue, on Mondays and Fridays at 9:30 and 11:00 a.m.; Tuesdays, Wednesdays, and Thursdays at 9:30 a.m.; and Saturdays at 9:00 a.m. Those who want to participate are encouraged to make appointments by writing or calling the Office of Admissions, 410 Thurston Avenue (607/256-5241) a few days before the visit, but appointments are not required. Parking is available at the office, and arrangements for on-campus parking can be made for those who want to visit other facilities.

Required Interviews

College of Architecture, Art, and Planning. Applicants to the Department of Architecture and the Department of Fine Arts are encouraged to visit the campus in the fall of the year before anticipated enrollment for the required portfolio interview. Every effort should be made to schedule the interview at Cornell, but if an applicant is unable to travel to Ithaca, other arrangements may be possible.

Architecture applicants should arrange for an interview by contacting the admission coordinator, 135 East Sibley Hall (607/256-4376). A portfolio of the applicant's artwork (independent work or class assignments) must be presented at the interview. (An applicant who has not had course work in architectural design is not required to show examples of architectural design.) A copy of the portfolio must also be submitted to the above address by the appropriate deadline for review by the department's admission committee. Information about deadlines and specific portfolio requirements should be obtained from the admission coordinator as early as possible.

Fine arts applicants should arrange for an interview by contacting the department secretary, Department of Fine Arts, 100 Olive Tjaden Hall (607/256-3558). Originals of the applicant's artwork (independent work or class assignments) must be presented at the interview. A copy of the portfolio must also be brought to the interview or mailed by the appropriate deadline to the above address for review by the department's admission committee. Information about deadlines and specific portfolio requirements should be obtained from the department secretary as early as possible.

School of Hotel Administration. The prospective student is responsible for arranging the required interview. On-campus interviews are strongly encouraged, but when a visit to the campus is impossible, arrangements can be made for interviews in other locations. Contacts with other representatives of the University do not substitute for the required individual interview arranged through the school's admission office. Appointments are made by contacting the admission secretary, School of Hotel Administration, Statler Hall (607/256-6376).

School of Industrial and Labor Relations.

The school writes to each applicant about the required interview after it receives the application. Alumni interviews and informational visits to the school do not normally substitute for the formal interview. Arrangements for informational visits may be made by contacting the Office of Admissions, School of Industrial and Labor Relations, 101 Ives Hall (607/256-2222).

Applicants living overseas. To arrange an overseas interview or another way to fulfill this requirement, applicants living overseas should contact the appropriate director of admissions as soon as possible.

Optional Conferences and Interviews

College of Agriculture and Life Sciences. The college offers admission conferences, in small groups and individually, by prior appointment. Appointments for individual and group conferences for freshman and transfer applicants are available, as time allows, weekdays from 10:00 a.m. to noon and 2:00 to 4:00 p.m. from May 1 through mid-December. Transfer applicants are usually granted individual appointments to discuss their preparation for transfer, although group transfer conferences are sometimes scheduled. Group conferences for high school students are scheduled on Monday and Friday mornings at 11:15. Students and their families are invited to attend. A videotape presentation about the college and its programs is followed by a discussion of admission procedures, financial aid, and student life. Questions are encouraged. After the group conference visitors may tour the campus with a student ambassador. A Saturday group conference is also offered once a month during the fall months. Several group conferences are held during the spring as well. Arrangements may be made by contacting the Office of Admissions, College of Agriculture and Life Sciences, 195 Roberts Hall (607/256-2036).

College of Arts and Sciences. The college welcomes requests from prospective students for personal interviews or group conferences. Although not required for admission, an interview does provide the admission representative with an opportunity to talk with the prospective student, to answer questions, and to record any observations that may be useful to the admission committee.

Personal interviews for prospective freshmen are conducted on campus Monday through Friday from 9:00 a.m. to 4:00 p.m. from June 1 through January 1. Interviews for transfer applicants are offered through mid-March. Appointments should be scheduled well in advance by writing or calling the Arts and Sciences Office of Admissions, Binenkorb Center, Goldwin Smith Hall (607/256-4833).

All prospective students and their families are invited to attend group conferences to discuss the curriculum, special programs and options, student life, and admission and financial aid policies. Members of the faculty generally participate in these conferences, which are intended to be informative rather than evaluative. Conferences are held on Mondays at 10:30 a.m., Fridays at 3:00 p.m., and Saturdays at 10:30 a.m. from September 19 through January 1 and are followed by a tour of the college. Appointments are recommended and may be arranged by contacting the college's admission office.

College of Engineering. The college encourages prospective students to visit the campus for an admission conference. Group conferences, which include faculty members and current students, are available Mondays and Fridays at 10:00 a.m. and 2:00 p.m. throughout the year and on several Saturdays during the fall term. Conferences are followed by a tour of the engineering facilities, and visitors are invited to have lunch with a student. The number of requests to attend the sessions is large, and prospective students are urged to make reservations well in advance with the appointment secretary, College of Engineering, 221 Carpenter Hall (607/256-5008).

Conferences present information about the engineering profession and the programs of study available in the college. Questions are encouraged, and parents are welcome to attend the sessions. An applicant who wants to discuss personal records with a staff member can do so after the group conference, if the applicant has scheduled the meeting in advance.

College of Human Ecology. The college offers small group conferences that explain the academic programs of the college and its student support programs. They are scheduled on Mondays and Fridays at 10:30 a.m. and 3:00 p.m. throughout the year. Individual conferences may be scheduled for Tuesdays, Wednesdays, and Thursdays from 10:00 a.m. to noon and 2:00 to 4:00 p.m. A



group conference is also available at 10:00 a.m. on two Saturdays each month in the fall. Appointments for all conferences should be made at least a week in advance. If advance notice is not possible, the college will try to accommodate prospective applicants. Appointments can be arranged by contacting the Office of Admissions, College of Human Ecology, 172 Martha Van Rensselaer Hall (607/256-5471).

Alumni Secondary Schools Committee program. Cornell is eager to help prospective students and their families learn about the University from various perspectives. To supplement campus visits and the information provided in publications like this, the University's Office of Admissions organizes and coordinates the efforts of an extensive network of volunteers in the Alumni Secondary Schools Committee (ASSC) program. Some of these committees host gatherings in their local areas for interested students, applicants, and accepted students. Committee members contact applicants and represent the University at college information programs. The Office of Admissions refers the names and addresses of as many applicants as possible to area alumni representatives, who can then make arrangements for information interviews. While ASSC interviews are not required, these contacts give applicants another opportunity to broaden their knowledge of Cornell. In addition, interview reports may provide selection committees with a better understanding of applicants.

Want to Ask a Student a Question?

Prospective students often have questions they would like to ask undergraduates about life on campus. If you have such questions, the Cornell Ambassadors would like to hear from you. The Ambassadors are undergraduates from the schools and colleges across the campus. If you know the unit or field you are interested in, please include it in your letter; the Office of Admissions will forward the letters to the appropriate Ambassador for a reply. Write to Cornell Ambassadors, Box DSH, Office of Admissions, 410 Thurston Avenue, Ithaca, New York 14850.

Admission of Freshmen

A freshman applicant is any applicant who (1) will complete high school during this academic year (even one who will graduate at midyear and pursue a college program for the rest of the academic year), or (2) is seeking early admission after the junior year in high school, or (3) has already graduated from high school but has earned fewer than twelve academic credits at a college or university.

Application. The application process is designed to solicit information from various sources and to provide applicants with an opportunity to describe themselves and their interests, achievements, and educational, vocational, and professional goals. When the first of an applicant's documents reaches the University's Office of Admissions, a folder is created for that applicant. Once all the necessary documentation has arrived, the folder is sent to the college or school in which the applicant has indicated interest. A selection committee in the undergraduate unit then considers the applicant carefully and thoughtfully. All information supplied on the application forms is of critical importance.

January 1 is the deadline for submitting freshman applications; it is also the due date for Cornell financial aid applications. Since assembling complete records for all applicants takes considerable time and the review of applications is a long and detailed process, prospective applicants are urged to mail their applications by early December. Prompt return of completed materials is to the applicant's advantage.

Subject and test requirements for each academic division are contained in table 8. Note these requirements carefully.

Early decision. The Colleges of Agriculture and Life Sciences, Arts and Sciences, Engineering, and Human Ecology and the School of Hotel Administration participate in an early decision plan, designed for well-qualified high school seniors whose first preference is Cornell. Only a small percentage of the freshman class is admitted during the early decision selection process. In applying under this plan, an applicant agrees to withdraw all other applications if accepted for admission to Cornell.

Early decision applicants are notified of decisions on admission and financial aid by mid-December. Applications of those not selected for early acceptance are held for review during the regular selection process.



The Scholastic Aptitude Test of the College Board (taken no later than November of the senior year) or the American College Testing Program examination (taken no later than October of the senior year) is required. College Board achievement tests, required by the Colleges of Arts and Sciences and Engineering, do not have to be submitted for early decision review, but these requirements must be completed by accepted applicants before entrance. Early decision applicants whose applications are held for later review are advised to complete the required achievement tests no later than the January test date.

Early admission. Each year a few students request consideration for admission after only three years of secondary school. Some of these students receive a high school diploma by completing all requirements in three years; others leave school lacking a few credits. Admission committees give serious consideration to those applicants who have exhausted the offerings of their secondary schools and who, in addition, give clear indication of a level of maturity that makes early college entrance desirable and appropriate. Those students who have the opportunity to take advanced, accelerated, or college-level courses during their fourth year in secondary school are usually encouraged to do so unless this action would inhibit the development of some academic strength.

Since there is variation from one Cornell division to another regarding early admission, students considering it should write to the school or college of their choice at Cornell before applying or make an appointment for an on-campus interview to discuss their plans and reasons for wanting to enter early.

Selection and notification. Each school and college has a committee that selects, from among all who have applied to that division, the applicants it considers most desirable for admission.

Five divisions of the University—the Colleges of Agriculture and Life Sciences; Architecture, Art, and Planning; Engineering; and Human Ecology and the School of Hotel Administration—follow a policy of rolling notification. They report decisions to applicants over a period of time, with some letters sent during March and the first half of April. The selection committee in each of these divisions must review a large number of applications, and the date on which an applicant hears from Cornell is not necessarily an indication of the quality of that applicant.



Decisions are reported to applicants to the College of Arts and Sciences and the School of Industrial and Labor Relations on the common notification date in mid-April.

Most financial aid announcements are also mailed to admitted applicants on the mid-April common notification date.

An applicant who has been accepted for admission does not need to notify Cornell of his or her decision about enrolling until the May 1 candidates' reply date, or within fifteen days of the date on the notification of acceptance for admission, whichever is later.

Deferred enrollment. Some students accepted for freshman admission may want to defer their enrollment to the following year or later. This is usually permitted if the student is committed to entering Cornell at a later time and will not be applying elsewhere. An accepted student who wants to defer entrance should (1) accept Cornell's offer of admission by the stated date, (2) complete and return the registration coupons sent with the acceptance, and (3) state in an accompanying letter the reasons for the requested deferral of enrollment and the date entrance is desired.

If the request for deferred entrance is approved, the student is guaranteed a place in the specified future freshman class.

Spring term admission. The College of Arts and Sciences is the only undergraduate unit that regularly admits freshmen for entrance in the spring term. Applications must be submitted by November 1, and students are notified by mid-December. January admission may be especially attractive to those who graduate from high school at midyear and want to enter college immediately as part of their plans for acceleration and to those who want to defer college entrance for a semester to gain a different kind of experience, such as work or travel.

The College of Agriculture and Life Sciences, the School of Hotel Administration, the College of Human Ecology, and the School of Industrial and Labor Relations only rarely admit freshmen in the spring term. For further information contact the appropriate director of admissions.

The College of Architecture, Art, and Planning and the College of Engineering admit freshmen in the fall term only.

Students living overseas are discouraged from applying for spring term admission. The longer time needed for mailing and the waiting periods for obtaining visas make it unlikely that students living overseas can be considered in time to arrive for the spring semester.

Freshman Summer-Start Program. This special program is available for incoming Cornell freshmen who want to begin their college careers in the summer. The program provides the opportunity to earn credit toward a degree and, at the same time, introduces the student to university life. Participants take two undergraduate courses. One is of the student's own choosing. The other is a freshman seminar, designed to improve and develop the writing skills that are basic to successful performance at Cornell. Students live together in a dormitory with resident counselors, in a situation intended to provide informal association with faculty members.

For more-detailed information write to Cornell University Summer Session, B12 Ives Hall.

Admission of Transfer Students

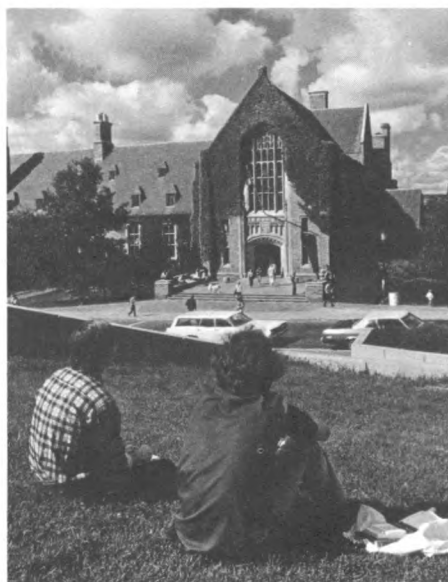
If at the time of proposed entrance to Cornell a student no longer associated with a high school will have completed the equivalent of twelve credits or more of college work, that student is considered a transfer applicant. An exception is a high school student who graduates at midyear and pursues a college program for the rest of that academic year; such a student is considered a freshman applicant.

Foreign transfer applicants are expected to have completed at least one year of college work by the time of proposed entrance. Only foreign students enrolled in degree programs in the United States and Canada may apply for spring term admission. Foreign students should request applications from the associate director of undergraduate international admissions, 410 Thurston Avenue.

Transfer applicants should follow directions given in the section "Application Procedures and Deadlines." They are encouraged to submit application materials well before the deadline of March 15 to allow sufficient time to gather and review credentials. Applicants to the College of Architecture, Art, and Planning should, if possible, apply by January 15 for fall term admission.

All divisions except the College of Engineering also consider transfer applications for the spring term, with an application deadline of November 1. The College of Architecture, Art, and Planning normally considers for spring term admission only applicants who have upperclass standing in professional architecture or art programs. The College of Human Ecology and the School of Hotel Administration consider applicants for spring term transfer even if they will have completed only one semester of college by that term. Other divisions normally require completion of at least one year of college work for consideration for spring term transfer, although in special instances the College of Agriculture and Life Sciences, the College of Arts and Sciences, and the School of Industrial and Labor Relations consider spring term applicants who will have completed only one semester of college work.

Individual interviews and portfolios are required by the College of Architecture, Art, and Planning. The School of Hotel Administration also requires individual interviews. The School of Industrial and Labor Relations requires a five-hundred-word essay and communicates



with each applicant directly about personal interviews.

Transfer applicants should furnish transcripts of all work completed at the college level. A transcript from an applicant's high school may also be required. For students applying for fall term admission, the transcript should include work taken the previous fall term and a midyear grade report for courses being taken during the spring term. For students applying for spring term admission, the transcript should include work taken through the previous summer and a midyear grade report for courses being taken during the fall term.

An admitted transfer student is required to submit a transcript of all college work completed before entrance to Cornell.

Transfer applicants are required to submit results of the same standardized tests required of freshman applicants unless a waiver is granted by an admission officer in the unit to which the student is applying.

Although students from community colleges and other two-year college programs may apply to any division of the University, the Colleges of Agriculture and Life Sciences, Engineering, and Human Ecology, the School of Industrial and Labor Relations, and the Program in Urban and Regional Studies in the College of Architecture, Art, and Planning particularly encourage applicants from these programs. Students should write to the transfer admission committees of these divisions for information on admission procedures, financial aid, and advanced standing.

Admission of Special Students

Special students are those who enroll for one or more semesters and take a full program of studies without being candidates for a Cornell degree. (Those interested in less than full academic programs should contact the Division of Extramural Studies, B12 Ives Hall.) Each year most of Cornell's undergraduate schools and colleges admit special students interested in attending the University on a short-term basis.

Many special students are degree candidates at other institutions but want to take courses not offered at their home colleges. Examples of special arrangements for such students are the visiting student programs in the College of Agriculture and Life Sciences, the College of Human Ecology, and the School of Industrial and Labor Relations.

People already employed often enroll as special students to enhance career opportunities in their current fields of work or to help them change careers. Students may also use the special student category to make up deficiencies from previous undergraduate study in preparation for graduate or professional schools; however, the College of Agriculture and Life Sciences does not admit special students for premedical, prelaw, and pre-veterinary study.

Occasionally a person who has an unusually strong talent or experience in a field of study but lacks the academic requirements for regular admission attends Cornell as a special student before being accepted into a degree program.

Each of Cornell's schools and colleges makes provisions for qualified special students to transfer to degree status. In no case, however, is transfer to a degree program automatic or guaranteed. Requirements and procedures for such transfer vary from one unit to another. Those interested should consult the appropriate admission representative.

An applicant requesting consideration as a special student should mark the appropriate space on part 1 of the application. Applications are due March 15.

**Table 3. Academic Guidelines for HEOP and EOP Eligibility****HEOP**

Architecture, art, and planning	Below 550 verbal and mathematics SAT or below top third in class rank
Arts and sciences	Below 540 verbal SAT or below top third in class rank
Engineering	Below 570 mathematics SAT or below top third in class rank
Hotel administration	Below 1,000 composite SAT

EOP

Agriculture and life sciences	1,000 or below composite SAT with neither verbal nor mathematics above 550
Human ecology	Below 500 verbal or mathematics SAT
Industrial and labor relations	1,100 or below composite SAT or 500 or below verbal or mathematics SAT or below top fifth in class rank

Minority and Special Opportunity Programs

Cornell University administers a variety of programs designed to provide academic and personal support and financial assistance to minority students and to low-income students who meet program guidelines.

Each year Cornell admits a limited number of students who, because of their economic and educational backgrounds, might not have considered applying. In these cases criteria other than traditional academic standing and test scores are often weighed more heavily in admission decisions. Financial aid programs are open to any student meeting program specifications. See details in the section on financial aid.

Cornell's Committee on Special Educational Projects (COSEP) assists students from those minority groups that traditionally have been underrepresented in higher education. In conjunction with the individual schools and colleges, COSEP provides academic support and counseling services and coordinates sponsorship of a large number of social and cultural events of special interest to minority students. Participation in the program is voluntary and may be requested by minority students who are United States citizens or permanent residents.

Through the Higher Education Opportunity Program (HEOP) and the Educational Opportunity Program (EOP), New York State provides special assistance to residents of the state who meet both the

academic and economic guidelines (see tables 3 and 4).

Those who believe they qualify and want to be considered for COSEP, HEOP, or EOP aid and services must request such consideration on part 1 of the application for admission.

Students admitted through COSEP, HEOP, and EOP participate in the services described in the following paragraphs, in addition to the services described in the section "Student Services." These support services, although available throughout the college career, are especially designed to ease the student's adjustment during the first year.

Summer programs. These programs are for students whose previous preparation and academic goals indicate a need that can best be met by prefreshman six-week summer courses. Those expected to attend will be advised at the time of acceptance for admission.

Special orientation. All program participants attend the special orientation (starting about a week before regular orientation) to receive a briefing and introduction to the campus. Also, diagnostic testing will be administered for purposes of course-load counseling for the fall.

Table 4. Economic Guidelines for HEOP and EOP Eligibility

Dependents in Household*	Gross Family Income in 1982†
One	\$ 6,448
Two	7,849
Three	9,250
Four	11,500
Five	13,750
Six	16,000
Seven	18,000
Eight	19,750
Nine or more	21,500 plus \$1,750 for each family member in excess of nine

Note: These guidelines are subject to change after July 1, 1982.

*Including the head of the household.

†Does not include the student's income unless he or she is the head of the household or the second worker supporting the household.



Application Procedures and Deadlines

United States citizens and permanent residents.

Part 1 of the application for admission is included in this Announcement or, if it has been removed, may be requested from the Office of Admissions, Cornell University, 410 Thurston Avenue. This form is to be completed and returned to the Office of Admissions with the \$35 application fee. Students from very low income backgrounds may request a waiver of the fee. Students may receive waivers in any of four ways: (1) by submitting the fee waiver request form of the Admissions Testing Program (ATP) of the College Board, which most high school guidance counselors have; (2) by submitting a request from a reputable agency such as the College Bound Program; (3) by submitting a letter from a high school guidance counselor stating that due to financial circumstances a fee waiver is necessary; or (4) by completing the request for waiver of application fee form, available from the Office of Admissions, 410 Thurston Avenue.

Students who are not United States citizens and United States citizens who are completing secondary school studies abroad should follow the instructions in the sections that follow before submitting part 1.

Part 2 of the application and other forms (including those to be completed

and returned by the secondary school or postsecondary institutions or both) will be sent to the applicant upon receipt of part 1. It is the applicant's responsibility to see that official records of all secondary or postsecondary work or both and official results of required standardized tests are received by the Office of Admissions.

Foreign applicants. Cornell University defines a foreign applicant as a person holding a United States nonimmigrant visa, regardless of whether that person is currently residing in the United States or abroad. Foreign applicants are subject to some additional requirements in the application process, which are given below. Questions about the admission of foreign students should be addressed to the associate director of undergraduate international admissions, 410 Thurston Avenue.

Form 1A, the information sheet, must be filed with part 1 of the application for admission. Students who do not receive form 1A with part 1 should write to the associate director of undergraduate international admissions before sending part 1. The information sheet will be reviewed to determine whether the student's academic credentials meet the minimum standards of the University. If not, the \$35 application fee will be refunded. Foreign students are strongly urged to submit part 1 and form 1A by December 1.

Unless the student's native language is English, proof of proficiency in English must be submitted with part 2 of the ap-

plication for admission. A person who is qualified to evaluate English proficiency must fill out and submit the report of proficiency in English, included with part 2 of the application. In addition, a score of 550 on the Test of English as a Foreign Language (TOEFL) is required for admission. Some students with outstanding academic records may be offered conditional admission if their TOEFL scores are between 500 and 550. These students are expected to attend an intensive English summer program at Cornell before initial registration. All students with TOEFL scores of less than 600 will be required to take Cornell's English placement examination (administered during orientation) and to continue English instruction during the academic year if necessary.

Nonnative speakers of English are likely to have low scores on the verbal portion of the Scholastic Aptitude Test (SAT) even if they have been studying in the English language for several years. Even students who technically meet the criteria for exemption from the TOEFL are therefore strongly urged to take the TOEFL examination and submit the scores as part of their application for admission. A TOEFL score enables the admission selection committee to assess more accurately an applicant's English proficiency and ability to succeed in an undergraduate program at Cornell. Students who want to request an exemption from the TOEFL must do so in writing by

contacting the associate director of undergraduate international admissions. Only applicants who meet one or more of the following criteria will be exempted:

- a. The native language of the applicant is English.
- b. By January 1, 1983, a freshman applicant will have completed two full years of study in the United States or another country in which English is the native language. By March 15, 1983, a transfer applicant will have completed three semesters or five quarters of study in the United States or another country in which English is the native language.
- c. The applicant earned a score over 600 on either the verbal section of the SAT or the College Board achievement test in English.

Financial aid resources for foreign students at Cornell are limited. Consequently the competition for these awards is keen,

and only a small percentage of the entering foreign students each year receive assistance. Most accepted students must be prepared to meet the full costs of their education at Cornell from personal or other funds. Those who do receive financial aid are likely to have exceptional academic records and show extraordinary potential to contribute positively to the Cornell community.

Upon acceptance for admission to Cornell, a foreign student must present evidence that sufficient funds will be available to cover all expenses anticipated for the entire period of study at the University. When satisfactory certification has been received, form 1-20 (certificate of eligibility for nonimmigrant F-1 student status) will be issued. Students who hold other types of nonimmigrant visas (e.g., G-4, A-2, E-1) do not need form 1-20 but are required to submit financial certification before registration will be permitted.

Applicants with international education. Applicants who are United States citizens and persons holding United States permanent resident or refugee visas who have had international educational experiences should request the supplementary international education forms when filing part 1 of the application for admission. These forms will include a summary of educational background and a report of proficiency in English (for non-native speakers of English only). Students whose native language is not English are strongly urged to submit TOEFL scores as part of their application. Questions regarding the evaluation of foreign educational credentials, advanced placement policies, and exemption from the TOEFL may be addressed to the associate director of undergraduate international admissions.

Table 5. College Board Test Dates

Test Date	U.S. Registration Deadline	U.S. Late Registration Deadline	International Registration Deadline*	Scholastic Aptitude Test	Achievement Tests
October 16, 1982	September 24, 1982			Yes†	No
November 6, 1982	October 1, 1982	October 13, 1982	September 27, 1982	Yes	Yes
December 4, 1982	October 29, 1982	November 10, 1982	October 25, 1982	Yes	Yes
January 22, 1983	December 17, 1982	December 29, 1982	December 13, 1982	Yes‡	Yes
March 19, 1983	February 11, 1983	February 23, 1983	February 7, 1983	Yes‡	No
May 7, 1983	April 1, 1983	April 13, 1983	March 28, 1983	Yes	No
June 4, 1983	April 29, 1983	May 11, 1983	April 25, 1983	Yes	No

Note: Sunday administrations of the Scholastic Aptitude Test will be offered on October 17, 1982; November 7, 1982; December 5, 1982; May 8, 1983; and June 5, 1983. Achievement tests will be offered on the following Sundays: November 7, 1982; December 5, 1982; January 23, 1983; May 8, 1983; and June 5, 1983.

Handicapped students may arrange to take the Scholastic Aptitude Test at the convenience of the student and the administrator of the test at any time during the academic year. They should contact their high school counselor for specific information.

*Postmark date.

†Offered only in California, Florida, Georgia, Illinois, North Carolina, and Texas.

‡Not offered in New York.

Table 6. American College Testing Program Test Dates

Test Date	Registration Deadline
October 30, 1982	October 1, 1982
December 11, 1982	November 12, 1982
February 12, 1983	January 14, 1983
April 16, 1983	March 18, 1983
June 11, 1983	May 13, 1983

Note: Due to legislation in effect in New York, it is unlikely that the February test date will be scheduled in that state. Similar legislation in California could also lead to a slightly curtailed schedule in that state.

Table 7. Test of English as a Foreign Language Dates

Test Date	U.S. and Canada Registration Deadline	International Registration Deadline
August 7, 1982	July 5, 1982	June 21, 1982
October 2, 1982	August 30, 1982	August 16, 1982
November 20, 1982	October 18, 1982	October 4, 1982
January 15, 1983	December 13, 1982	November 29, 1982
March 12, 1983	February 7, 1983	January 24, 1983
May 14, 1983	April 11, 1983	March 28, 1983



Admission Requirements

Table 8 summarizes the subject and test requirements and suggested preparation for each school and college. Applicants must request the College Board and the American College Testing Program to send the official score reports to Cornell University. It is the student's responsibility to see that these reports are received. Scores reported on school transcripts or received in other ways are not acceptable.

College Board tests. Freshman applicants for fall term admission are urged to take the College Board Scholastic Aptitude Test (SAT) no later than the December test date of their senior year and any required College Board achievement tests no later than the January test date. Because of limited test offerings in New York State, high school seniors who are New York residents are urged to schedule their SAT and achievement tests early in their senior year. Not taking the required tests by these dates may seriously

jeopardize a student's chances for admission. Students may obtain application forms for these tests through their schools or by writing to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540, or Box 1025, Berkeley, California 94701.

American College Testing Program tests. All divisions will accept the results of the American College Testing Program examination (ACT) as either a partial or a complete substitute for the College Board tests (see table 8 for detailed requirements). Applicants for fall entrance are urged to take the tests no later than the October test date of their senior year. Registration packets may be obtained from secondary schools or from the American College Testing Program, P.O. Box 168, Iowa City, Iowa 52240, or 216 Goddard Boulevard, King of Prussia, Pennsylvania 19406.

Table 8. Requirements and Recommended Preparation for Freshman Admission

	Secondary School Subjects	Standardized Tests
Agriculture and life sciences	16 units, including 4 units of English and 3 units of mathematics	SAT or ACT (applicants twenty-four or older who have been out of school for three or more years and have taken neither examination may request a waiver of this requirement by writing to the director of admissions of the college)
Architecture, art, and planning	<i>Architecture:</i> 16 units, including 4 units of mathematics (including intermediate algebra and trigonometry) and 4 units of English <i>Art:</i> 16 units, including 4 units of English, 3 units of mathematics, and 3 or 4 units of foreign language (3 years of one language or 2 years each of two languages)	<i>Architecture and art:</i> SAT or ACT
Arts and sciences	16 units, including 4 units of English, 3 units of mathematics, 3 units of science, and 3 units of one foreign language (deficiencies in these requirements should be explained in a letter accompanying the application for admission)	SAT or ACT; three College Board achievement tests in different subjects, one of which must be English composition (with or without essay); early decision applicants see p. 55
Engineering	16 units, including 1 unit of chemistry, 1 unit of physics, and 4 units of mathematics (to include 2 units of algebra, 1 unit of geometry, and 1 unit of a precalculus subject such as trigonometry)	Either ACT or both SAT and College Board achievement tests in mathematics (level I or II) and in chemistry or physics
Hotel administration	16 units, including 4 units of English, 3 units of mathematics, and 1 unit of chemistry	SAT or ACT
Human ecology	16 units, including 4 units of English, 3 units of mathematics, 1 unit of biology, and 1 unit of chemistry or physics	SAT or ACT (applicants twenty-four or older who have been out of school for three or more years and have taken neither examination may request a waiver of this requirement by writing to the director of admissions of the college)
Industrial and labor relations	16 units, including 4 units of English	Either ACT or both SAT and College Board achievement tests in English and mathematics (level I or II) (applicants twenty-four or older who have been out of school for three or more years and have taken neither examination may request a waiver of this requirement by writing to the director of admissions of the college)



Additional Requirements	Other Recommended Preparation	Admission Options	Undergraduate Degree
	A total of 18 high school units, including 3 units of science (biology, chemistry, and physics); for New York State residents, Regents examinations; for those who take SATs, College Board achievement tests in two of the following: English composition, mathematics, and science	Early decision, early admission, and deferred enrollment	B.S.
<i>Architecture and art:</i> a portfolio interview, preferably on campus (if a campus interview is not possible, other arrangements may be possible); a file copy of the portfolio meeting set specifications	<i>Architecture:</i> 1 unit of high school physics and study of a foreign language (3 years of one language or 2 years each of two languages)	<i>Architecture and art:</i> Early admission and deferred enrollment	B. Arch, B.F.A., and B.S.
	College Board achievement test in any foreign language to be continued for credit in college	Early decision, early admission, deferred enrollment, and spring term admission of freshmen, transfers, and special students	A.B.
	1 unit of biology for those interested in bioengineering	Early decision, early admission, and deferred enrollment	B.S.
An interview, preferably on campus	Additional mathematics and science (especially physics), social studies, foreign language	Early decision, early admission, and deferred enrollment	B.S.
	Another unit of biology, chemistry, or physics	Early decision, early admission, and deferred enrollment	B.S.
An interview, on or off campus; a five-hundred-word essay describing the applicant's interest in the field		Early admission and deferred enrollment	B.S.



Prospective freshmen or transfer students should not hesitate to apply for admission because of financial circumstances. It is the University's goal to offer, to all freshman applicants accepted for admission, financial assistance to the extent of calculated need (if they are United States citizens, Canadian citizens, or persons holding permanent resident or refugee visas in the United States). Financial assistance is awarded on the basis of demonstrated need, following closely, but not strictly adhering to, the standards of the College Scholarship Service.

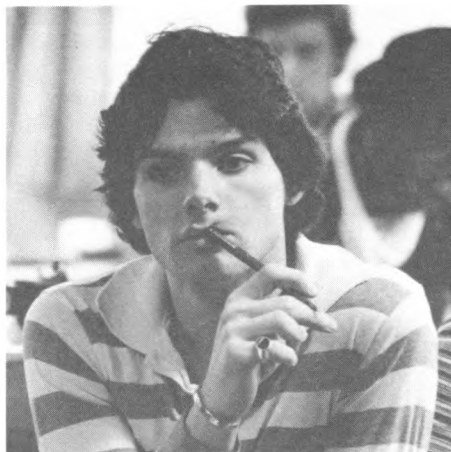
Financial Aid

Most students finance their education through a combination of a contribution from parents, the student's own contribution from savings, assets, and earnings from summer and vacation employment, and, if need is demonstrated, financial assistance.

The financial aid package. Cornell University offers a combination of gift (scholarship and grant) and self-help (loan and job) assistance. The financial aid package usually consists of a loan and job and, if need remains, a scholarship or grant. The amount of self-help is determined by the ratings that the undergraduate college's selection committee gives to the student. Accepted new students will be rated for overall desirability based on such qualities as academic ability, leadership, community service, and extra-curricular contributions. Less-than-expected academic performance will not affect a student's aid package for at least two years. However, as in the past, aid packages may change after the first year if changes occur in family financial circumstances, costs, and the availability of federal funds.

Currently 70 percent of all Cornell undergraduates receive some form of financial aid from University, state, federal, or other sources. Over 60 percent receive Cornell-allocated scholarships, jobs, or loans. Students of all levels of financial capability attend Cornell University.

Financial aid resources for foreign students (excluding Canadians) are limited.



Less than 10 percent of the entering foreign students receive financial assistance of any kind. Foreign students who receive financial aid are likely to be those with exceptional academic records, high test scores, strong potential for positive contributions to the Cornell community, and demonstrated financial need.

Analysis of need. The total amount of aid awarded is based on need, determined by subtracting the total family contribution from the estimated cost of attendance. If the student is eligible for a scholarship, grant, or loan from a source other than Cornell University, the University subtracts the amount of this assistance from the estimated financial need and attempts to meet the remaining need.

The Office of Financial Aid uses the information provided in the financial aid form (FAF) to determine a fair contribution from each family. It takes into account the family's income and assets, the number of dependents, educational and medical expenses, and other factors. Parents must submit notarized copies of their most recent federal income tax return to verify financial data reported on the FAF.

The University expects all students to help meet the cost of their education. A student's contribution includes earnings from summer and vacation employment, veterans' benefits, and a portion of personal savings and assets.

Scholarships and Grants

Cornell-administered awards. Many students are eligible to receive a scholarship or grant from the University as well as from various federal and state programs.

The University budgets over \$8 million for undergraduate scholarships. The student applies for financial aid in general;

the University matches the student to the most appropriate University or outside scholarship source.

University scholarships are awarded to those who still have a demonstrated financial need after allowances for outside awards and Cornell loan and job offers.

Committee on Special Educational Projects (COSEP) scholarships are awarded to students admitted to the COSEP program.

Higher Education Opportunity Program (HEOP) and Educational Opportunity Program (EOP) grants are New York State grants that are awarded to New York State residents who meet both the academic and economic guidelines (see tables 3 and 4). HEOP grants are for those enrolled in the private units of the University; EOP for those in the state-supported units.

Supplemental Educational Opportunity Grants (SEOGs) are federal grants that Cornell awards to students demonstrating exceptional financial need who would be unable to attend without the grant. The grants range from \$200 to \$2,000 a year. To continue receiving the grant, students must remain in good academic standing and must be making satisfactory progress toward a degree.

Direct state and federal assistance. In addition to Cornell-administered awards, students may be eligible to receive funds from federal and state sources.

Pell Grants (formerly Basic Educational Opportunity Grants) range from \$200 to \$1,800 based on financial need, and are awarded by the federal government. Cornell attempts to identify eligible students and includes an estimate of this award in the aid package. All students are encouraged to apply for Pell Grants by checking the appropriate box on the FAF.

Regents College Scholarship and Tuition Assistance Program (TAP) awards for New York State residents range from \$250 to \$2,450 a year. Scholarships for children of deceased or disabled veterans are also available in amounts up to \$450 a year. Prospective students should obtain an application for this award from high school guidance counselors and submit it to the New York Higher Education Services Corporation, Student Finan-

cial Aid Section, Tower Building, Empire State Plaza, Albany, New York 12223.

Other state scholarships are offered by some states to students attending institutions out of that state. These include (but are not necessarily limited to) Connecticut, Massachusetts, Rhode Island, and Vermont. Prospective students should consult their secondary school guidance counselor, their state scholarship office, or Cornell's Office of Financial Aid for further information about their state's programs.

Other sources of funding include colleges and universities where parents are employed, the Social Security Administration, state offices of vocational rehabilitation, the Bureau of Indian Affairs, and the Native American Education Unit of the New York State Education Department. Inquiries should be directed to the agencies involved, high school guidance counselors, or Cornell's Office of Financial Aid.

Employment

Cornell offers part-time employment opportunities for students through the Student Employment Office, where jobs are posted on boards and information on part-time work opportunities is available. All students, regardless of financial need, may find jobs both on and off campus.

Those students demonstrating financial need may be eligible to participate in the College Work-Study Program (CWS), a federally funded program that subsidizes a portion of the student's wages. CWS jobs are located in campus departments as well as in nonprofit agencies off campus. Many students who do not receive CWS as part of their financial aid package are able to locate employment in one of the campus departments. Others find jobs within the Ithaca business community.

Federal regulations and Cornell policy on financial aid require that all financial aid recipients planning to work on campus receive clearance from the Student Employment Office before accepting any job. All students are encouraged to visit the Student Employment Office for current employment regulations as well as for information and assistance in locating employment.

Loans

Several loan programs are available to help students meet their financial needs. Students are not required to accept a loan in order to receive other types of aid.

National Direct Student Loans

(NDSLs). These University loans are offered to undergraduates in amounts totaling up to \$6,000 for four years and to graduate and professional students in amounts totaling up to \$12,000. No interest is charged while the student maintains at least half-time status; interest of 5 percent is charged beginning six months after he or she leaves school. The student has up to ten years after leaving school to repay the loan. Deferment of repayment is allowed for graduate work and for military, Peace Corps, VISTA, and public service, full-time volunteer work, professional internship, and disability. Up to 100 percent of the loan may be canceled if the student becomes a special education teacher or a teacher in an economically and culturally deprived area.

Guaranteed Student Loans (GSLs).

Twenty-seven states currently have loan programs for students attending institutions in or out of the home state. Undergraduates may borrow up to \$2,500 a year, to a maximum of \$12,500. The interest rate is 9 percent, and the grace period is six months for those who obtained their loans for a period of instruction beginning on or after January 1, 1981. The federal government will pay the interest until six months after graduation or the termination of at least half-time study. At that time repayment of both the principal and the interest will begin, with the borrower having up to ten years after leaving school in which to repay the loan. Deferment of repayment may be permitted for graduate work and military, Peace Corps, and VISTA service.

A dependent student whose family's total adjusted gross income is \$30,000 or less will be able to borrow up to the maximum loan limit. If the family's adjusted gross income is greater than \$30,000, a student applying for a GSL is subject to a needs test to determine loan eligibility. Applications may be obtained from participating lending institutions.

Parent Loan for Undergraduate Students (PLUS).

PLUS enables either natural or adoptive parents of *dependent* undergraduate students to borrow up to \$3,000 per child for each academic year to help meet the costs of postsecondary education. The amount borrowed in any year cannot be greater than the cost of



going to school during that year minus all other financial aid received for that year. The total amount borrowed for any one student may not exceed \$15,000.

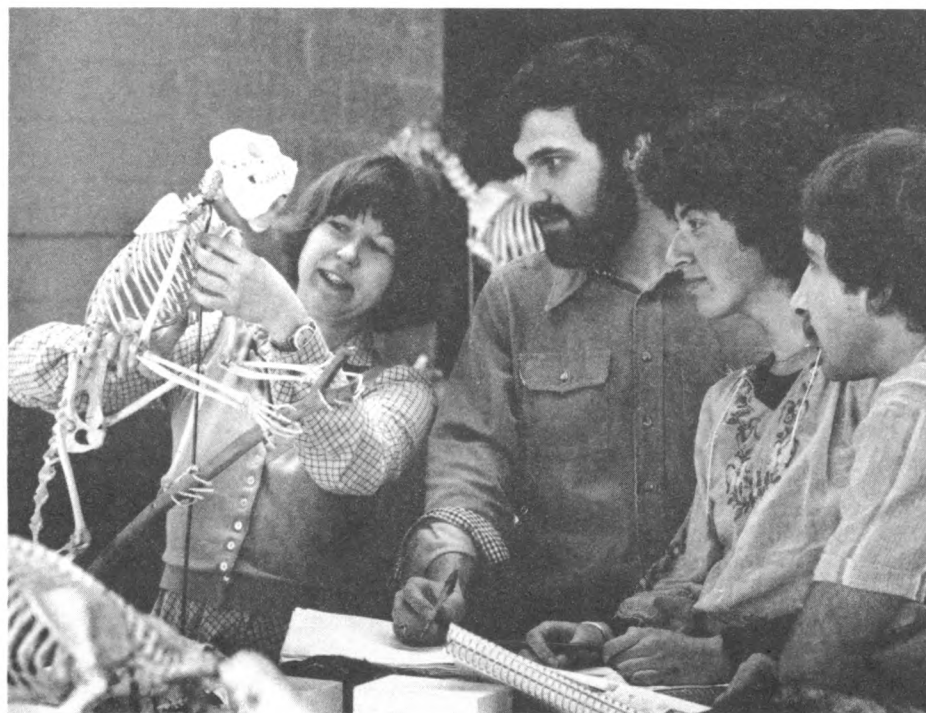
The annual interest rate is currently 14 percent. Repayment of the loan must begin within sixty days of the date funds are disbursed. Borrowers have ten years to repay. There is an insurance premium of 1 percent, payable at the time of disbursement. Applications may be obtained from participating lending institutions.

Auxiliary Loans to Assist Students

(ALAS). ALAS enables *independent* undergraduate and graduate or professional students to borrow money. Undergraduates may borrow up to \$2,500 a year, to a maximum of \$12,500. Graduate and professional students may borrow up to \$3,000, to a maximum of \$15,000.

The limits for independent undergraduates *include* any amounts borrowed under the GSL Program. The limit for graduate and professional students is in *addition* to their GSL. The total amount borrowed in any year cannot be greater than the cost of going to school in that year, minus other financial aid received for the period for the loan.

The annual interest rate is currently 14 percent. Students are billed quarterly for interest payments while they are in school. Repayment of the loan principal is deferred only while the student remains in full-time attendance at the school.



Application Procedures and Deadlines

Applicants who indicate on part 1 of the application that they want to be considered for financial aid must submit the financial aid application (form 2E), included with part 2 of the application for admission, and an FAF, obtainable from secondary school guidance offices or Cornell's Office of Financial Aid. Applicants for admission in the fall semester should send the completed FAF to the College Scholarship Service, Princeton, New Jersey 08540, as soon as possible after January 1, but no later than February 15. Early decision applicants should submit the early version FAF to the College Scholarship Service by November 1. Those applying for admission in the spring semester should return the FAF to the College Scholarship Service by November 1. Later submission will jeopardize the possibility of being awarded assistance.

Foreign students. Foreign students who want to apply for financial aid should complete the financial aid application for foreign applicants, included with part 2 of the application for admission.

Renewal in subsequent years. The financial aid package is for one year only but may be renewed upon application. Applications for renewal are available in the Office of Financial Aid in December

of each year. Aid is normally continued as long as financial need continues and the student remains in good standing (is eligible to continue at Cornell) and maintains normal progress toward a degree. Since requirements for good standing vary among the units at the University, students should consult the registrars of their divisions for information about remaining in good standing.

Students normally receive aid for a maximum of eight undergraduate semesters (ten for students in the Department of Architecture), including semesters spent at institutions other than Cornell. Students may request aid for semesters beyond the normal number. However, the amount of scholarship assistance is normally reduced.

Amounts of assistance are based on an annual review of the student's level of need and changes in regulations governing the awards. Self-help levels may be increased if funds are not available for gift assistance to meet increases in tuition and other expenses.

Further Information

More-detailed information, required by state and federal regulations, is available from the Office of Financial Aid, 203 Day Hall.

Orientation sessions. All incoming recipients of aid and their parents are encouraged to attend the financial aid orientation sessions included in the Cornell orientation program.

Financial counseling services. The University has a staff of financial aid advisers to answer questions about financing an education at Cornell. Students or parents who have questions about a financial aid package or who need assistance in budgeting should contact the Office of Financial Aid.



Fees and Expenses

Fees and expenses include a combination of tuition and expenses for room and board, books and supplies, and personal items.

Tuition. All charges listed in table 9 apply to the 1982–83 school year. Tuition and fees for the 1983–84 year will be set by the Board of Trustees in the spring of 1983. The amount, time, and manner of payment of tuition, fees, or other charges may be changed at any time without notice.

Table 9. Estimated Tuition, 1982–83

Agriculture and life sciences	
Resident*	\$3,300
Nonresident	5,350
Architecture, art, and planning	7,950
Arts and sciences	7,950
Engineering	7,950
Hotel administration	7,950
Human ecology	
Resident*	3,300
Nonresident	5,350
Industrial and labor relations	
Resident*	3,300
Nonresident	5,350

*A resident is a person whose permanent domicile is in the state of New York at the time of registration for the term. The domicile of a student under twenty-one years of age is presumed to be that of his or her parents, unless the student provides acceptable proof of emancipation.

Acceptance deposit. Starting in the fall of 1983 an acceptance deposit of \$200, applicable to the tuition for the final semester at Cornell, will be required. If a student does not enter in the semester for which the deposit is paid, or does not formally withdraw before July 1 for the fall semester or December 1 for the spring semester, or does not complete at least one semester at the University, the deposit is forfeited. This acceptance deposit only affects students entering Cornell in the fall of 1983 or in subsequent semesters.

Excess-hours tuition. Students in the state-supported divisions who want to take more credits in the endowed divisions than are allowed under the degree guidelines of those state-supported divisions may be allowed to do so if they pay for the additional credits at the rate of tuition in the college in which the course is given. Recipients of financial aid can request additional loan or job assistance to cover this additional tuition.

Special fees. The following fees are imposed under certain conditions: make-up examination, \$10; late filing of study card, \$10; late change of program, \$10. A fee is charged for late registration according to the following schedule: three weeks late, \$30; four weeks, \$40; five weeks, \$50; six weeks, \$60; more than six weeks, \$60 plus \$25 for each additional week.

Living expenses. Table 10 shows the estimated living expenses for single undergraduate students without dependents.

Expenses are slightly higher for foreign students than for United States residents. An estimate of expenses for foreign students may be obtained from the International Student Office, 200 Barnes Hall. Before a certificate of eligibility for an F-1 student status visa will be issued, foreign students who are accepted will be required to submit certification that funds are available to cover all expenses for the entire undergraduate program at Cornell.

Table 10. Estimated Living Expenses, 1982-83

Room and board	\$3,050*
Books and supplies	290†
Personal expenses	700

Note: This table does not include travel costs.

*This is an estimate for a medium-priced double room and the meal plan that provides for twenty meals a week. It does not include the \$40 application fee for the University residence.

†For undergraduates in the College of Architecture, Art, and Planning and in the Department of Design and Environmental Analysis, the cost of books and supplies is estimated to be \$150 higher.

Payment of University bills. The Office of the Bursar mails statements at the beginning of each month to students who have amounts due to the University.

Tuition and room charges are billed for each semester about one month before the start of the semester. All payments are due by the date stated on the bill and must be received by that date to avoid finance charges. Any amount remaining unpaid after the due date on the statement on which the charges first appeared is assessed a finance charge of 1 1/4 percent a month (15 percent a year).

An individual with outstanding indebtedness to the University is not permitted to register or reregister in the University, receive a transcript, have academic credits certified, be granted a leave of absence, or receive a degree.

Cornell will offer to the class of 1986, and each succeeding freshman class, a

monthly installment plan for payment of educational expenses. The cost of this plan will be \$25 a year. Each May information about this service will be mailed to parents of incoming freshmen and transfer students, as well as to the parents of students already on the plan who want to continue.

Refunds. Part of the amount personally paid for tuition is refunded if a student obtains an official certificate for a leave of absence or withdrawal at the office of the dean or director of the academic division involved. Students who terminate their registration in the University during a regular term in this manner are charged tuition from the registration day to the effective date of the certificate as follows: first week, 10 percent; second week, 20 percent; third week, 30 percent; fourth week, 40 percent; fifth week, 60 percent; sixth week, 80 percent; seventh week, 100 percent. No charge is made if the effective date is within five days of the registration day.

The University makes available tuition insurance, which provides refunds in the

event of a leave of absence or withdrawal for medical or emotional reasons. Complete details about this coverage accompany the August tuition bill.

The \$40 application fee for University residence halls is nonrefundable except when lack of space prevents the offer of a room assignment. The \$100 security deposit is refundable, less damage charges, upon fulfillment of the contract.

Students participating in a prepaid dining plan who withdraw from the plan during a semester are eligible for a prorated refund based on the number of days the contract was in effect.

Students receiving financial aid from the University who withdraw during a term may be required to repay a portion of the aid received. Repayment to aid accounts depends on the type of aid received, government regulations, and the period of time in attendance. A partial semester generally counts as one of the eight semesters of financial aid eligibility normally allowed a student.



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Cornell University

1983 Application for Admission

Part 1

We are pleased to know of your interest in Cornell University and hope you will apply for admission. Part 1 begins the application process; it will provide the information we need to establish your file and coordinate the other information you submit.

When you have completed the form, return it to us with the nonrefundable application fee of \$35 (in the form of a check, draft, or money order drawn on a United States bank and made payable to Cornell University). It will be helpful for you to make a copy of the completed part 1, as you will use some of the information to complete part 2.

Upon receipt of part 1 and the application fee we will send part 2 of the application, which will give you an opportunity to tell us about yourself—your accomplishments and talents as well as your goals and plans for the future. Also included will be the form you need to submit if you plan to apply for financial aid and a form to be completed by school officials. Finally, be sure that the results of the required tests are sent to us by the testing agency.

Seniors in high school are strongly encouraged to mail their applications by early December to avoid postal delays. There is a complete timetable of deadlines on the next page.

Please read the following instructions carefully before completing part 1. If you have any questions or concerns during the application process, do not hesitate to call or write us.

Instructions for Completing Part 1

Social Security Number

Use a United States social security number only. If you do not have a social security number, leave this response blank. An applicant who obtains a social security number after submitting the application should notify us of the number promptly.

Applicant Status

Freshman. A freshman applicant is any applicant who (1) will complete high school during this academic year (even one who will graduate at midyear and pursue a college program for the rest of the academic year), or (2) is seeking early admission after the junior year in high school, or (3) has already graduated from high school but has earned fewer than twelve academic credits at a college or university.

Transfer. If at the time of proposed entrance to Cornell a student no longer associated with a high school will have completed the equivalent of twelve credits or more of college or university work, that student is considered a transfer applicant. An exception is a high school student who graduates at midyear and pursues a college program for the remainder of that academic year; such a student is considered a freshman applicant.

Special student. A student who enrolls for one, two, or three semesters and takes a full program of studies without being a candidate for a Cornell degree is considered a special student.

Early decision. The Colleges of Agriculture and Life Sciences, Arts and Sciences, Engineering, and Human Ecology and the School of Hotel Administration participate in an early decision plan, designed for well-qualified high school seniors whose first choice is Cornell. Students accepted under this plan agree to withdraw other college applications and pay the nonrefundable registration fee by January 1.

Spring term admission. The College of Arts and Sciences is the only undergraduate unit that regularly admits freshmen for entrance in the spring term. The College of Agriculture and Life Sciences, the School of Hotel Administration, the College of Human Ecology, and the School of Industrial and Labor Relations only rarely admit freshmen in the spring term; for further information contact the appropriate director of admissions. The Colleges of Architecture, Art, and Planning and Engineering admit freshmen in the fall term only.

All divisions except the College of Engineering consider applicants for spring term transfer. Foreign students who want to apply for spring term transfer must be enrolled in programs in the United States or Canada.

Financial Aid

If you plan to apply for financial aid, be sure to submit the financial aid form (FAF) through the College Scholarship Service in addition to the Cornell financial aid application that is included in part 2. The FAF is available in high school guidance offices and college financial aid offices.

Foreign students should submit the special financial aid forms for foreign applicants directly to Cornell.

Undergraduate School or College

Undergraduate admission to Cornell is granted by each undergraduate school or college. Applicants should apply to the division that best suits their academic plans. Those applying for freshman admission may specify a second choice (see the explanation below).

Anticipated Field of Interest

The admission committees are interested in your intended major, although they recognize that at this stage a decision may be tentative. Use the list provided on the back of part 1 to complete the item about anticipated field of interest. The code you insert in the appropriate spaces must be for a field of interest in the Cornell school or college to which you are applying.

Optional Information

Higher Education Opportunity Program and Educational Opportunity Program.

HEOP and EOP are open to *New York State residents only*. Applicants to the Colleges of Architecture, Art, and Planning, Arts and Sciences, and Engineering and the School of Hotel Administration who meet the economic and academic guidelines are eligible for HEOP. Those applying to the Colleges of Agriculture and Life Sciences and Human Ecology and the School of Industrial and Labor Relations who meet the guidelines are eligible for EOP. For guidelines see page 57.

Committee on Special Educational Projects.

COSEP helps students from those minority groups that have traditionally been underrepresented in higher education. In conjunction with the individual schools and colleges, COSEP provides academic support and counseling services. Participation in the program is voluntary.

Racial or ethnic background. Cornell University tries to enroll as diverse an entering class as possible. By providing us with information on your racial or ethnic background, you will assist us in that endeavor.

Parents or grandparents who have attended Cornell. We would appreciate knowing if any of your parents or grandparents attended Cornell. List those who were enrolled in undergraduate or graduate programs.

Second choice for freshman applicants. Recognizing that Cornell's undergraduate schools and colleges offer a multitude of curricular programs, and that many applicants have diverse academic talents and career interests that may be satisfied by more than one unit of the University, Cornell gives freshman applicants the option of indicating a second-choice school or college. Consideration by the second-choice unit occurs only in a limited number of cases and when certain conditions exist, as specified on part 1 of the application. The decision to consider an application is at the discretion of the admission committee of the second-choice

school or college. Additional requests from applicants to be considered by the second-choice unit cannot be honored.

Applicants selecting a second-choice school or college should be familiar with the admission requirements of that unit (see pp. 60–61) and are urged to complete their applications promptly. Units having special requirements, such as interviews or portfolios, may contact applicants who have selected them as a second choice about the completion of those additional requirements if the admission committee agrees to consider the applicants.

Joint Statement on Common Admission Procedures

Ivy Group Institutions

The Ivy Group is a loosely formed organization of colleges and universities. It was established in 1954 primarily for the purpose of fostering amateurism in athletics. Relations between the member institutions have grown over the years to the point where we now meet regularly (along with Massachusetts Institute of Technology) at a variety of levels to discuss topics which range from the purely academic to the purely athletic and from fundamental educational philosophy to procedures in admissions.

Each member institution has its own identity and character and protects its right to pursue its own educational objectives. Thus, although the Ivy Group institutions are similar in many respects, each member institution will continue to make its own independent admission decisions according to its own particular admission policy.

In recent years, however, it has become clear that the transition between secondary school and institutions of higher education has become increasingly complex and that greater efforts should be made to simplify the admission process through more uniform procedures. It is our hope that by outlining carefully the procedures under which we are operating and by clearly specifying not only what an applicant's obligations are to us but also what our obligations are to him or her, we can help students pursue their college interests free of unnecessary confusion and pressure.

General Procedures

All contacts with students by representatives of Ivy institutions are intended to provide assistance and information and should be free of any activity which could be construed as applying undue pressure on the candidate. *No information referring to the admission or financial aid status of an applicant to an Ivy institution may be considered official or reliable unless it is received directly from that institution's admission or financial aid office.*

Ivy institutions mail admission decision letters twice annually, in mid-December and mid-April. Those who wish a decision in December must apply by November 1 and complete their applications with supporting materials shortly thereafter.

December Notification

Under December Notification an applicant may be notified that he or she has been granted or denied admission or that a final decision has been deferred until the mid-April notification date. Two plans are offered.

- The College Board–approved Early Decision Plan, which is offered by Columbia College, Cornell University (College of Arts and Sciences and some other units of the University), Dartmouth College, and the University of Pennsylvania, requires a prior commitment to matriculate. Financial aid awards for those qualifying for financial assistance will normally be announced in full detail at the same time as the admission decisions. An applicant receiving admission and an adequate financial award under the Early Decision Plan will be required to accept that offer of admission and withdraw all applications to other colleges or universities. All the Ivy institutions will honor any required commitment to matriculate which has been made to another college under this plan.

- An Early Action Plan is offered by Brown University, Harvard University, Princeton University, and Yale University. This plan does not require a commitment to matriculate. Under this plan a student may file an Early Action application at only one of these institutions. Students may apply, however, to other colleges at any time under their Regular Admission program (Spring notification of final admission decision). Those admitted candidates applying for financial aid and qualifying for financial assistance will not receive any information concerning financial aid awards until the mid-April Common Notification Date.

Students are urged to consult the admission literature available at each Ivy institution for details concerning its particular December Notification Plan.

Early Evaluation Procedure

Beginning in January and continuing until March 15, some institutions may advise an applicant of his or her chance of admission (e.g., "Likely," "Unlikely," or "Possible"). As these are merely tentative assessments, it should be understood that no commitments are involved on the part of either the institution or the applicant.

April Notification

On a common date in mid-April, applicants to the Ivy institutions will be notified by mail of admission decisions and financial aid awards.

Financial Aid

All the Ivy institutions follow the common policy that any financial aid will be awarded solely on the basis of demonstrated need. Moreover, in order to insure that financial awards to commonly admitted candidates are reasonably comparable, all of the Ivy institutions will continue to share financial aid information concerning admitted candidates in an annual "Ivy overlap" meeting just prior to the mid-April common notification date.

Common Reply Date

Except for those applicants admitted under the College Board–approved Early Decision Plan, which requires a prior commitment to matriculate, no candidate admitted to any of the Ivy institutions will be requested to announce his or her decision to accept or decline an offer of admission until the Candidates' Reply Date of May 1. All such candidates may delay their commitment to attend until May 1 without prejudice.

Participating Institutions

Brown University
Columbia College
Cornell University (College of Arts and Sciences)
Dartmouth College
Harvard and Radcliffe Colleges
Princeton University
University of Pennsylvania
Yale University

Admission Timetable

November 1. Applications due for freshman early decision applicants. Applications due for freshman and transfer applicants for the spring semester. Early decision applicants should have submitted the financial aid form (FAF) to the College Scholarship Service.

December 1. Deadline for freshman foreign applicants residing outside the United States and Canada to submit the information sheet (form 1A) and part 1. All applicants are strongly encouraged to mail applications by early December to avoid postal delays.

Mid-December. Decisions announced for early decision and spring term freshman and transfer applicants.

January 1. Applications due for freshman applicants for the fall semester. Freshman financial aid applicants are encouraged to submit the FAF to the College Scholarship Service by this time.

February 15. Deadline for freshman financial aid applicants to send the FAF to the College Scholarship Service. Deadline for foreign transfer applicants residing outside the United States and Canada to submit the information sheet (form 1A) and part 1.

February 15–April 15. Decisions announced for freshman applicants applying to the College of Agriculture and Life Sciences; the College of Architecture, Art, and Planning; the College of Engineering; the School of Hotel Administration; and the College of Human Ecology.

March 1. Deadline for transfer financial aid applicants to submit the FAF to the College Scholarship Service.

March 15. Applications due for transfer applicants for the fall semester.

Mid-April. Decisions announced for freshman applicants to the College of Arts and Sciences and the School of Industrial and Labor Relations.

April 15–June 15. Admission decisions and financial aid awards announced for transfer applicants for the fall semester.

May 1. Deadline for freshman applicants for the fall semester to reply to acceptances for admission.

Early June. Transfer applicants for the fall semester must reply by June 1 or two weeks after notification, whichever is later.

Cornell University

1983 Application for Admission

Part 1

Please read the instructions before completing this form. Type or print clearly in ink. Enclose a \$35 check or money order (nonrefundable), payable to Cornell University, or a fee waiver, and return it by the appropriate deadline to the **Office of Admissions, Cornell University, 410 Thurston Avenue, Ithaca, New York 14850**. Forms for completing the application will be forwarded upon receipt of part 1 and the fee or waiver.

Deadlines for Receipt

November 1

Freshman early decision applicants
Spring semester freshman applicants
Spring semester transfer applicants

January 1

Fall semester freshman applicants

March 15

Fall semester transfer applicants

Name: _____
last (family) first (given) middle

U.S. social security number: _____

Permanent address: _____
number and street

_____ city state zip or postal code county (if U.S.) country area code and telephone number

Mailing address (if different from above): _____
number and street

_____ city state zip or postal code country area code and telephone number

Date of birth: _____ Sex: ☐ Male ☐ Female Country of citizenship: _____
month day year

If not U.S., do you hold a permanent U.S. resident visa? ☐ Yes ☐ No If not, type of U.S. visa: _____

Are you applying as a ☐ freshman ☐ transfer ☐ special student?

If you are applying for freshman admission, are you applying under Cornell's early decision plan (see instructions)? ☐ Yes ☐ No

When do you want to enroll? _____ ☐ Fall semester ☐ Spring semester
year

Are you applying for financial aid? ☐ Yes ☐ No

Have you applied for undergraduate admission at Cornell before? ☐ Yes ☐ No If so, when? _____
year

School or college at Cornell to which you are applying:

☐ Agriculture and life sciences ☐ Arts and sciences ☐ Hotel administration ☐ Industrial and labor relations
☐ Architecture, art, and planning ☐ Engineering ☐ Human ecology

Anticipated field of interest within the school or college indicated above (see reverse for codes): _____

Secondary school: _____
name city state zip or postal code country

CEEB code number: _____ Date of graduation: _____
month year

Transfer Applicants

College or university from which you are transferring: _____
name city zip or postal code country

CEEB code number: _____ Type: ☐ Two-year ☐ Four-year

Cumulative grade point average on a 4.0 scale at end of last term: _____ Degree received (if any): _____

Optional Information

☐ I want to be considered for HEOP or EOP (see instructions). ☐ I want to be considered for COSEP (see instructions).

Racial or ethnic background:

☐ American Indian or Alaskan Native ☐ Black, not of Hispanic origin ☐ Hispanic, not Puerto Rican
☐ Asian or Pacific islander ☐ Caucasian, not of Hispanic origin ☐ Puerto Rican

Parents or grandparents who have attended Cornell:

name	relationship to you	dates enrolled	degree(s)

Is your mother or father a Cornell faculty or staff member? ☐ Yes ☐ No If so, name of that parent: _____

Freshman applicants may indicate a second-choice school or college. Consideration by that division is made only (a) if the first-choice division has made a negative decision, (b) if the applicant's credentials meet the requirements of the second-choice division, and (c) if space is available. Indicate below your second-choice school or college (see instructions):

☐ Agriculture and life sciences ☐ Arts and sciences ☐ Hotel administration ☐ Industrial and labor relations
☐ Architecture, art, and planning ☐ Engineering ☐ Human ecology

Anticipated field of interest within the school or college indicated above (see below for codes): — — —

All Applicants

Date: _____ Signature: _____

Field-of-Interest Codes

Be certain that the code you enter in the appropriate spaces represents a field in the Cornell school or college of your choice.

COLLEGE OF AGRICULTURE AND LIFE SCIENCES

- 110 Agricultural and biological engineering (agricultural engineering, agricultural engineering technology, environmental technology)
- 120 Animal sciences
- 130 Applied economics and business management (agricultural economics, business management and marketing, farm business management and finance, food industry management, resource economics)
- 140 Behavioral and social sciences (agricultural education, communication arts, education, environmental education, rural sociology)
- 150 Biological sciences (animal physiology and anatomy; biochemistry; botany; cell biology; ecology, systematics and evolution; genetics and development; microbiology; neurobiology and behavior)
- 160 Environmental studies (aquatic science, atmospheric sciences, entomology, environmental technology, landscape architecture, natural resources, soil science)
- 170 Food science
- 180 Plant sciences (agronomy and field crops, floriculture and ornamental horticulture, plant breeding, plant pathology, plant protection, pomology, vegetable crops)
- 190 General and special programs (general studies, international agriculture, statistics and biometry, cooperative extension)

COLLEGE OF ARCHITECTURE, ART, AND PLANNING

- 205 Architecture (five-year program)
- 215 Fine arts (graphic arts, painting, photography, sculpture)
- 225 City and Regional Planning (transfer students only)

COLLEGE OF ARTS AND SCIENCES

- 310 Africana studies
- 312 American studies
- 314 Anthropology
- 316 Archaeology
- 318 Asian studies
- 320 Astronomy
- 350 Biological sciences (animal physiology and anatomy; biochemistry; biology and society; botany; cell biology; ecology, systematics and evolution; genetics and development; neurobiology and behavior)
- 360 Chemistry
- 361 Classics
- 362 Comparative literature
- 363 Computer science
- 364 Economics
- 365 English
- 366 French
- 377 Geological sciences
- 378 German
- 379 Government
- 380 Greek
- 381 History
- 382 History of art
- 383 Italian
- 384 Latin
- 385 Linguistics
- 386 Mathematics
- 387 Music

- 388 Near Eastern studies (Near Eastern and biblical civilization, Near Eastern language and literature)
- 389 Philosophy
- 390 Physics
- 391 Psychology
- 392 Russian and Soviet studies
- 393 Social relations
- 394 Sociology
- 395 Spanish
- 396 Theatre arts and dance
- 398 Other
- 399 Undecided

COLLEGE OF ENGINEERING

- Field Programs
- 405 Chemical engineering
- 410 Civil and environmental engineering
- 415 Computer science
- 420 Electrical engineering
- 425 Engineering physics
- 477 Geological sciences
- 480 Materials science and engineering
- 485 Mechanical engineering
- 490 Operations research and industrial engineering
- 495 Sponsored College Programs (bioengineering, energy conversion, engineering science, environmental and public systems, regional science, survey engineering)

SCHOOL OF HOTEL ADMINISTRATION

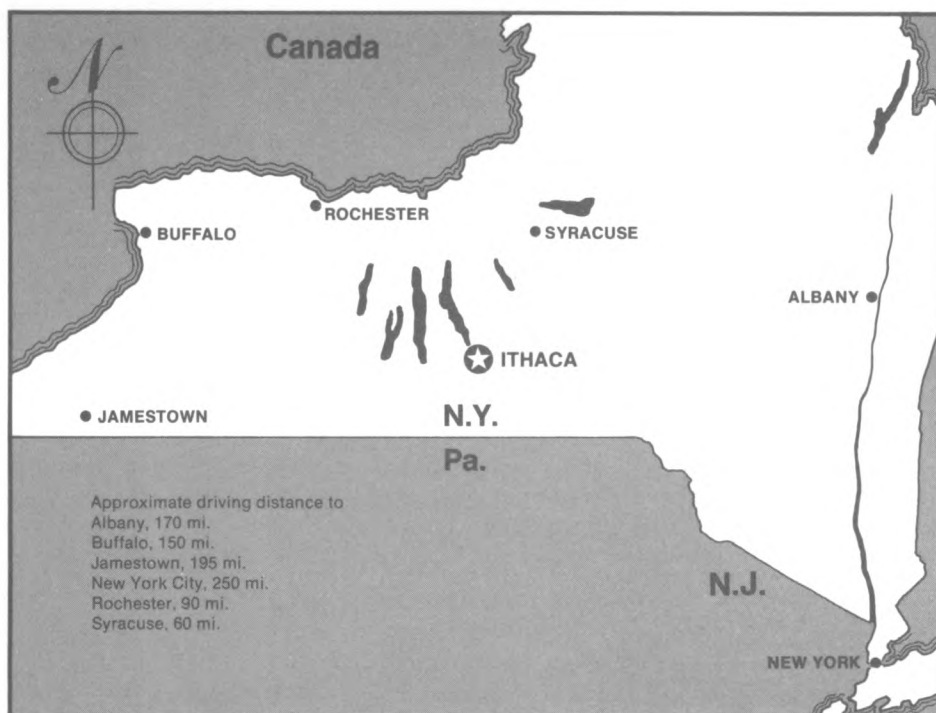
- 501 Hotel administration

COLLEGE OF HUMAN ECOLOGY

- 610 Consumer economics and housing (consumer economics, housing)
- 620 Design and environmental analysis (apparel and textile management, apparel design, human environment management, interior design, textiles)
- 630 Human development and family studies (atypical development; cognitive development; family studies; personality and social development; a selected stage of human development, from infancy to old age)
- 640 Human service studies (community and family life education, social work)
- 660 Nutritional sciences (clinical nutrition, community nutrition, consumer food and nutrition, dietetics, foods, nutritional biochemistry)
- 670 Social planning and public policy
- 698 Other
- 699 Undecided

SCHOOL OF INDUSTRIAL AND LABOR RELATIONS

- 701 Industrial and labor relations



Regional Offices

Metropolitan New York Regional Office
 521 Fifth Avenue, Suite 1801
 New York, New York 10017
 212/986-7202

Middle Atlantic Regional Office
 1 Highland Avenue, Suite 5
 Bala Cynwyd, Pennsylvania 19004
 215/667-6490

Midwest Regional Office
 120 South LaSalle Street
 Chicago, Illinois 60603
 312/726-4692

North Central Regional Office
 Statler Office Tower, Suite 838
 1127 Euclid Avenue
 Cleveland, Ohio 44115
 216/241-0642

Northeast Regional Office
 148 Linden Street, Suite 203
 Wellesley, Massachusetts 02181
 617/237-5300

Southeast Regional Office
 Bank of Coral Springs Building, Suite 604
 3300 University Drive
 Coral Springs, Florida 33065
 305/752-6750

Southwest/Mountain Regional Office
 17 Briar Hollow Lane
 Houston, Texas 77027
 713/629-5113

Western Regional Office
 1499 Huntington Drive, Suite 307
 South Pasadena, California 91030
 213/799-0864

Offices to Contact for Information

University admissions

410 Thurston Avenue
 607/256-5241

Agriculture and life sciences admissions

195 Roberts Hall
 607/256-2036

Architecture, art, and planning admissions

135 E. Sibley Hall
 607/256-4376

Arts and sciences admissions

Binenkorb Center, Goldwin Smith Hall
 607/256-4833

Engineering admissions

221 Carpenter Hall
 607/256-5008

Hotel administration admissions

339 Statler Hall
 607/256-6376

Human ecology admissions

172 Martha Van Rensselaer Hall
 607/256-5471

Industrial and labor relations admissions

101 Ives Hall
 607/256-2221

Admission records

410 Thurston Avenue
 607/256-5046

Financial aid

203 Day Hall
 607/256-5145

Minority recruitment

410 Thurston Avenue
 607/256-7233

Athletic admissions liaison

410 Thurston Avenue
 607/256-3479

Information and Referral Center (tours)

Lobby, Day Hall
 607/256-6200

Cornell University Announcements
USPS 132-860
Office of Admissions
Cornell University
410 Thurston Avenue
Ithaca, New York 14850

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