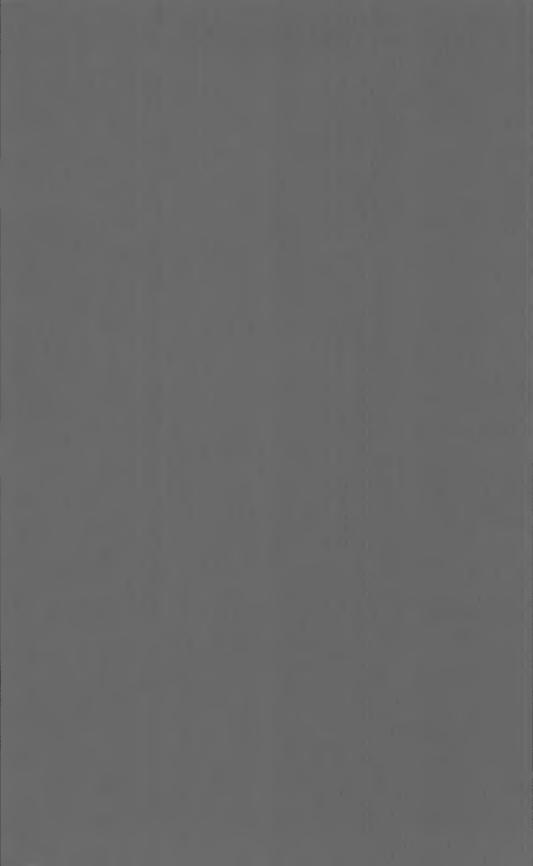
Cornell University
Announcements
Officer Education
1971-72



Cornell University Announcements Officer Education

The Departments of Military Science, Naval Science, and Aerospace Studies (ROTC)

1971-72

Cornell University Announcements

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Cornell Academic Calendar

	1971-72*		
Registration, new students Registration, continuing and rejoining students Fall term instruction begins, 7:30 a.m. Thanksgiving recess:	F,	Sept. Sept. Sept.	. 3
Instruction suspended, 1:10 p.m. Instruction resumed, 7:30 a.m. Fall term instruction ends, 1:10 p.m. Independent study period begins, 2:00 p.m. Final examinations begin Final examinations end	M, S, S, Th,	Nov. Nov. Dec. Dec. Dec.	29 11 11 16
Christmas recess and intersession			
Registration, new and rejoining students Registration, continuing students Spring term instruction begins, 7:30 a.m. Spring recess:	F,	Jan. Jan. Jan.	21
Instruction suspended, 1:10 p.m. Instruction resumed, 7:30 a.m. Spring term instruction ends, 1:10 p.m. Independent study period begins, 2:00 p.m. Final examinations begin	S, M, S, S,	Mar. Mar. May May May	27 6 6
Final examinations end Commencement Day	M, F,		22

 $^{^{\}ast}$ The dates shown in the Academic Calendar are subject to change at any time by official action of Cornell University.

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Department of Military Science

Colonel Claude E. Bailey, Jr., U.S. Army, Professor of Military Science and Commanding Officer of the Army ROTC Unit

Staff

Major John D. Waghelstein, Infantry, U.S. Army
Captain Anthony X. Hoyer, Armor, U.S. Army
Captain John T. Browne, Jr., Infantry, U.S. Army
One officer to be assigned

Department of Naval Science

Captain Ralph F. Jackson, U.S. Navy, Professor of Naval Science and Commanding Officer of the Naval ROTC Unit

Staff

Commander George A. Murphy, U.S. Navy Major Robert F. King, U.S. Marine Corps Lieutenant Warren B. Dodson, U.S. Navy Lieutenant (junior grade) Robert M. Lodge, U.S. Navy

Department of Aerospace Studies

Lieutenant Colonel Earl J. Heberling, U.S. Air Force, Professor of Aerospace Studies and Commander of the Air Force ROTC Detachment 520

Staff

Major Robert J. Voyles, U.S. Air Force Major George H. Raroha, U.S. Air Force

Cornell University

Officer Education at Cornell

Cornell University, established in 1865, has offered courses in the military arts since 1868. Through the years Officer Education at Cornell has provided outstanding leaders who have contributed greatly in the military service of the nation.

During the early years of ROTC at Cornell cadets lived under military conditions. The uniform was the accepted dress, and cadets moving in formation were a common sight.

Today the military program at Cornell is vastly different. Officer training with its emphasis on drill and formations has evolved into a program of Officer Education with greater concern for cadet preparation in the areas of leadership, social sciences, management, engineering, and other relevant fields which can optimize the performance of a young officer in a modern and progressive military organization.

Cornell graduates, commissioned in the reserve and regular forces, can be assured that their Officer Education program, be it Army, Navy, Marine Corps, or Air Force, will meet the needs of military professionalism for those who choose the military service as a career and for those with shorter term goals who wish to serve their country as officers.

ROTC Programs in Brief

Trustee Statement

It is the policy of Cornell University and the United States Department of Defense actively to support the American ideal of equality of opportunity for all, and no student shall be denied admission or be otherwise discriminated against because of race, color, creed, religion, or national origin.

Enrollment

ARMY. The four-year program is open to students in their freshman year or, with the approval of military and University authorities, to sophomores in a five-year degree program. The two-year program is open to students with two years remaining at the University following a basic six-week summer camp (see Two-Year Program, p. 13).

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AIR FORCE. A student enters the four-year program in his freshman year. A student may apply to the two-year program if he has two years, graduate or undergraduate, remaining.

NAVY. NROTC College Scholarship Program and NROTC College Program students normally will enroll in their freshman year. A limited number of students for the NROTC College Program will be accepted in their sophomore year.

MARINES. A marine option is available at the beginning of the third year for selected NROTC students.

Physical Requirements

ARMY. Eyes must be correctable to a minimum of 20/20 in one eye and 20/400 in the other eye. Height should be 78" maximum although exceptions will be considered. The weight requirement varies according to height. Overall sound mental and physical condition is essential.

AIR FORCE. The following are the eye requirements without glasses: 20/20 for pilot candidates, 20/50 for navigators, 20/400 bilaterally for engineers and general service. The height requirement for flying is 64" to 76"; for commission, 64" to 80". Weight varies with height and age. An overall sound physical condition is required.

NAVY. For the NROTC College Program, eyes must have binocular visual efficiency (BVE) not worse than 49 percent correctable to 100 percent by standard lens. No waivers will be granted. A partial table of BVE of 49 percent or better follows:

One eye	Other Eye
20/20	20/400
20/30	20/400
20/40	20/400
20/50	20/400
20/70	20/400
20/100	20/100

Excessive refractive errors are disqualifying. Defective color perception is disqualifying except for the science and engineering option. The NROTC College Scholarship Program requires 20/20 without correction. For all programs the height requirement is 64" to 78" and the weight requirement is proportional to height. An overall sound mental and physical condition is necessary.

MARINES. The physical requirements are the same as the Navy's with the exception that defective color perception is not disqualifying.

Cadet or Midshipman Benefits

ARMY. Cadets in the advanced program receive \$50.00 per month subsistence allowance. While attending the advanced summer camp all cadets

receive \$225.30 per month plus travel and per diem allowances to and from camp. ROTC uniforms, texts, and supplies are provided by the Army. Scholarship cadets receive the same pay and allowance in the advanced course plus all college tuition, fees, textbooks, and classroom material for the duration of the scholarship.

Scholarships also include \$50.00 per month subsistence during the freshman and sophomore years. Cadets in the two-year program will receive approximately \$201.51 during the basic summer camp plus the travel and per diem allowances prior to entry into the advanced course and the advanced course payments as indicated above.

AIR FORCE. All cadets in the Professional Officer Course (junior and senior year) receive a \$50.00 subsistence allowance a month. Scholarship cadets receive all tuition, fees, \$75.00 per year toward the cost of textbooks, and a subsistence allowance of \$50.00 a month. During summer field training, cadets receive \$201.60 for six weeks in the two-year program and \$255.30 for twenty-eight days in the four-year program. Also a travel allowance is paid to and from the field training site. Necessary uniforms and Air Force ROTC textbooks are furnished.

NAVY. In the College Program midshipmen receive a \$50.00 subsistence allowance per month during the last two years. The College Scholarship Program pays all tuition, fees, cost of textbooks, and a subsistence allowance of \$50.00 a month during the entire program.

Active duty pay of approximately \$225.00 a month and traveling expenses are received by all students who participate in the summer-at-sea training periods. Uniforms and books for Navy courses are provided for all midshipmen by the Navy.

MARINES. Same as Navy.

Required Hours

ARMY. One hour of class per week is required each term during the freshman and senior years; two hours each term during the sophomore year; three hours the first term and one hour the second term during the junior year. One hour of practical leadership training is required per week for the first five weeks of each term during the freshman and sophomore years and one hour per week during the junior and senior years.

AIR FORCE. One hour of corps training is required per week. Classroom requirements are variable depending on curriculum.

NAVY. Freshmen have no naval science classes during the first term but are required to complete three hours of class per week during the second term. Sophomores must complete three hours of class per week during the first term and four two-hour seminars during the second term. Juniors must complete four hours of class per week during the first term and three hours per week during the second term. Seniors must complete three hours of class per week during the first term and one hour of class per week during the

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second term. One ninety-minute laboratory session per week is required for all students throughout the academic year.

MARINES. Three hours of class are required each week during the first term of the junior and senior years. One ninety-minute weekly laboratory session is required during each term of the junior and senior years.

Basic Programs

(First Two Years)

ARMY. Classroom study of the principles and techniques of leadership and management, military teaching principles, and military topography. Practical leadership training (five contact hours per term) stresses practical exercises of classroom study. Six University academic semester hours of course work in effective communications are required. Courses in English composition, public speaking, effective communications, advanced grammar and composition, etc., are considered appropriate. Details on the academic portion of the military curriculum may be obtained from the AROTC unit on campus.

AIR FORCE. In the classroom the role of United States military forces in the contemporary world is examined, with emphasis on the organization and mission of the United States Air Force. The functions of strategic offensive/defensive forces, general purpose, and aerospace support forces are covered. The roles of these forces are related to national defense policy, with respect to general and limited war, alliances, and strategies and policies of the United States, the Soviet Union, and China. The student is also introduced to United States defense organization and decision-making processes. Corps Training includes classroom instruction in responsibilities and environment of the junior officer; instruction and practice in basic drill and ceremonies. Scholarship cadets attend a four-week summer training session at the end of the sophomore year.

NAVY. Classroom study includes naval ship engineering systems, fundamentals of damage control, and an overview of weapons systems in the first year. Second-year requirements include courses in military history and national security policy. Laboratory instructions include naval presentations and leadership development. Seminars on seapower/maritime affairs are conducted during the sophomore year.

MARINES. Same as the above Navy program for the first two years.

Advanced Programs

ARMY. Classroom study of the evolution of warfare, and practical application of the concepts of leadership and management, in order to obtain an understanding of the role of a leader. In addition six University academic semester hours of "enrichment subjects" are required. Enrichment subjects are advanced-level courses outside a cadet's major academic discipline,

which provide him with a more well-rounded background. Courses from the fields of the social sciences, mathematics, natural sciences, humanities, and the applied sciences and professions are acceptable. Details on the academic portion of the military curriculum may be obtained from the AROTC unit on campus.

AIR FORCE. In the junior year, classroom discussion centers around the growth and development of aerospace power and space studies. In the senior year, leadership, management, and officer responsibilities are stressed. Corps Training requires an average of four hours a month in the junior and senior years and consists of a leadership laboratory in which the cadet is exposed to advanced leadership experiences and applies principles of management learned in the classroom. There is a four-week training session at an Air Force base at the end of the second year. Flight instruction for all cadets accepted for pilot training is provided during the senior year and includes ground school and 36½ hours of flying at Air Force expense.

NAVY. Advanced-program classroom study includes courses in navigation, weapons systems, operations analysis, computer science, history, national security policy, and naval organization/management/military law. Laboratory periods are divided between leadership sessions and functional periods devoted to the practical application of subject matter taught in class. Summer at-sea training periods: The NROTC College Program requires one summer at-sea training period for about six weeks at end of the junior year; the NROTC College Scholarship Program requires three at-sea training periods for about six weeks after each of the first three academic years. The Flight Indoctrination Program is provided during the junior or senior year for physically qualified midshipmen interested in marine or naval aviation.

MARINES. The advanced program includes courses in the anatomy of warfare (junior year) and amphibious warfare (senior year). Laboratory periods include drill, tactics, administration, and leadership. Summer training consists of six-weeks precommissioning training and screening after the junior year at the Marine Corps base, Quantico, Virginia. The Flight Indoctrination Program is available during the junior or senior year for physically qualified midshipmen interested in marine aviation.

Commissioning Requirements

ARMY. Successful completion of the Army Advanced ROTC Program including attendance at a six-week advanced summer camp and the award of a baccalaureate degree are required. Commissioned rank is second lieutenant.

AIR FORCE. Successful completion of the Air Force Professional Officer Course and the award of an undergraduate degree are required. Commissioned rank is second lieutenant.

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NAVY. Successful completion of the NROTC Program (Scholarship, College, or Marine Corps option) and the award of an undergraduate degree are required. Commissioned ranks for students in the College Program are ensign, Naval Reserve; or second lieutenant, Marine Corps Reserve. For students in the College Scholarship Program, commissioned ranks are ensign, Navy; or second lieutenant, Marine Corps.

MARINES. See Navy.

Service Obligations After Graduation

ARMY. Cadets in the two- or four-year nonscholarship program serve two years active duty, followed by four years in a Reserve status, when commissioned in the Army Reserve. Cadets accepting a Regular Army commission as well as Army aviators (following flight training) serve a minimum of three years on active duty and three years in a Reserve status. Those in the one-, two-, three-, and four-year scholarship programs serve four years on active duty and two years in a Reserve status.

AIR FORCE. Four years of active duty for engineers or general-category graduates. For pilot and navigator trainees, five years after receipt of aeronautical rating.

NAVY. Those in the College Program serve three years of active duty in the Naval Reserve or Marine Corps Reserve, and three years in the Ready Reserve upon completion of active duty. Those in the College Scholarship Program serve a minimum of four years active duty in the Navy or Marine Corps followed by a maximum of two years in the Ready Reserve. Persons entering nuclear power programs incur one additional year of active duty service. Those entering aviation incur an active duty obligation of four and one-half years after completion of flight training.

MARINES. See Navy.

Advanced Study

ARMY. Active duty deferments may be granted to individuals who wish to attend graduate school at their own expense after commissioning. Current policy is to approve all requests for active duty deferment for two years (three years for law school). Requests for longer deferments will be considered on an individual basis.

AIR FORCE. Newly commissioned officers may request a delay in reporting for active duty while undertaking graduate study at their own expense. Weather Officer candidates may receive one postgraduate year of college at government expense with no additional service obligation.

NAVY. Active duty deferments may be granted to certain highly qualified newly commissioned officers from the NROTC College Program to attend

graduate school. Length of active service will not be affected. NROTC College Scholarship Program students are not eligible for a delay in active duty, but superior performers may be selected for the Navy's Immediate Graduate Education Program (IGEP). IGEP is available to all midshipmen in either the College or College Scholarship Program. Further details are available at the NROTC unit on campus.

MARINES. Same as Navy.

Scheduling

An applicant who knows to which service he plans to apply should inform the appropriate ROTC office and his particular college or school as early as possible so that academic schedules will include required ROTC activities.

Academic schedules for incoming freshmen are made up in the individual colleges during the summer. It is desirable that the student's wishes concerning ROTC be known when schedules are planned to avoid the possible inconvenience of adjusting schedules on registration day. Students are advised to visit the appropriate ROTC office prior to registration.

The United States Army ROTC Program

The AROTC program at Cornell provides the student with a background in general military science and prepares him for commissioning in any of the several branches of service of the Army. His academic major, his excellence in it, his personal desires, and the needs of the Army will determine the branch in which he is commissioned upon graduation. The program is based on the core curriculum concept, and consists of fifteen semester hours of professional military subjects, and twelve semester hours of university academic subjects. This combination of military and university academic courses (with leadership and management as the core subjects) enhances the overall development of future Army officers.

The general objective of the program is to develop and commission junior officers who have the qualifications and potential for continuing service as officers in the Regular or Reserve components of the Army.

Intermediate objectives of the course are to provide ROTC students with an understanding of the fundamentals of responsibility, integrity, and self-discipline, as well as an appreciation of the citizen's role in national defense. Also stressed is the ability to estimate situations and make decisions.

General Requirements

Basic Course (MS I and II)

Students desiring to enter the basic course must be enrolled as freshmen (with certain exceptions) and must be physically qualified under existing regulations. The student must also be a citizen of the United States (again, with certain exceptions).

Veterans of the armed forces of the United States may enroll, and, subject to approval by the professor of military science, may receive advanced standing in ROTC.

Students entering Cornell with ROTC credit from secondary or military schools (Junior Division ROTC) may enroll, and also may receive advanced standing.

Advanced Course (MS III and IV)

Cadets electing the advanced course must have two years of academic work remaining at Cornell, have successfully completed the two-year basic course or the summer camp equivalent, and be approved by the professor of military science.

Students must also qualify academically for appointment as a second lieutenant prior to reaching twenty-eight years of age and must successfully pass such physical and aptitude tests as may be prescribed.

Students execute a written contract with the United States government agreeing to complete the advanced course and to accept a commission as an officer, if tendered. In addition, they are enlisted in the United States Army Reserve for control purposes only.

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Two-Year ROTC Program

The two-year ROTC program is open to all students with two years of academic study remaining at Cornell or at any other institution which offers the advanced ROTC program. Applications are accepted from December to February, and selected students are notified in May. Selectees are required to complete a basic six-week summer camp prior to registering for the advanced ROTC program in the fall.

The Cadet Corps

Army ROTC cadets are organized into a cadet battalion for training in military drill and leadership. The battalion is commanded by a cadet lieutenant colonel, and his subordinates include staff officers, company commanders, platoon leaders, and squad leaders.

Promotions, awards, and decorations are periodically made to ROTC students who demonstrate high ability in both military and academic fields.

Scholarships

Army ROTC scholarships, which provide for tuition, fees, books, classroom supplies, and a subsistence allowance of \$50 per month, are available to outstanding freshmen, sophomores, and juniors. The minimum active duty requirement for all scholarship students is four years.

Flight Instruction Program

The Army ROTC Flight Instruction Program is offered to students in the second year of the advanced course, usually the senior year of college. Under this program, the Army will pay for flight training for selected ROTC students who have an aptitude for flying and who meet required qualifications.

The student receives a basic introduction to the principles of flying during the ground school, practice flying with approved instructor pilots, and solo flying. ROTC flight instruction is given by a civilian flying school, near Cornell, which has the approval of the Federal Aviation Agency (FAA), the Department of the Army, and Cornell University.

The program is conducted as an extracurricular activity. Each student receives 36 hours of ground instruction and 36½ hours of in-flight instruction.

Qualifying requirements for flight instruction are few, but strict. A sufficiently high academic standing and approval from both the professor of military science and the dean of the individual's school are required. A series of flight aptitude tests and physical examinations (uncorrected distant vision of at least 20/50 correctable to 20/20) must be satisfactorily completed. Parental permission is necessary for students under twenty-one years of age.

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Cadet platoon leader conducts leadership laboratory.



Cadets receive operations order for a tactical field exercise.

The Army Officer's Commission

The majority of ROTC students are commissioned as second lieutenants in the United States Army Reserve upon successful completion of the ROTC program. The active duty commitment is two years (or less, dependent upon Army personnel requirements) in one of the branches of the Army. These branches—such as Infantry, Corps of Engineers, Armor, Signal Corps, Quartermaster, Finance, and others-are chosen by the students in their last year of the ROTC advanced course. The likelihood of appointment in a chosen branch depends upon the student's academic and ROTC performance, as well as the needs of the Army at the time of his commissioning.

ROTC graduates commissioned in the United States Army Reserve will be ordered to active duty within one year of graduation unless deferred for graduate study.

A number of appointments as second lieutenants in the Regular Army are tendered annually to those who have been designated as Distinguished Military Students because of high academic achievement and outstanding military qualities. All members of the Army ROTC unit are eligible to compete for these appointments.

Distinguished Military Graduates who accept Regular Army commissions enter the Army on the same basis as graduates of the United States Military Academy at West Point. The minimum active duty commitment for nonscholarship ROTC Regular Army officers is three years.

ROTC scholarship students will be commissioned in the Regular Army if their academic and military performance has been sufficiently meritorious. Otherwise, they will receive commissions in the Army Reserve. In all cases the minimum active duty commitment for scholarship cadets is four years.

Active Duty

When beginning active duty, the commissioned graduate will attend the Basic Officers Course (normally eight weeks) of his assigned branch. Upon completion of this course, assignments in the United States and overseas are available, dependent upon the needs of the Army as influenced by the desires of the individual officer.

Curriculum and Schedule of Classes

Basic Course

All cadets must complete six semester hours of seleced academic subjects (see p. 12) and participate in practical leadership training (see p. 16).

Freshman Year

MS 1A-MS 1B Leadership and Management I: Principles and Theory. Fall and spring terms. Credit two hours. T 8, 9:05.

Throughout the year, presented by a military-civilian teaching team. One hour a week of classroom discussion on the principles and techniques of leadership and management and how they are variously employed to achieve the same ends.

Sophomore Year

MS 2A-MS 2B Leadership and Management II: Case Studies, Methods of Instruction, and Military Topography. Fall and spring terms. Credit two hours each term. T Th 8, 9:05.

Fall term: two hours a week of classroom

16 Army ROTC Program

discussion on civilian and military case studies in leadership and management, with emphasis on the techniques of military junior leaders. Spring term: methods of instruction and military topography. Two hours a week of classroom discussion on methods of instruction, to include student presentations; instruction on topography as viewed by the military and techniques of land navigation.

Advanced Course

All cadets must complete six semester hours of selected academic subjects (see p. 12) and participate in practical leadership training (see below).

Junior Year

JMS 301 Leadership and Management III: Evolution of Warfare. Fall term. Credit four hours. M W F 8, 9:05, 1:25. Joint military staff.

A joint Army, Navy, Air Force course designed to provide the student with a knowledge of the art, concepts, and evolution of warfare from the beginning of recorded history to the present.

MS 3B Leadership and Management III: Small Unit Tactics. Spring term. Credit one hour. W or Th 1:25 and 3:35.

Two hours a week on small unit tactics, with emphasis on squad and platoon level operations. In the course of the term, five weekend field exercises will be scheduled during which leadership responsibilities will be applied.

Senior Year

MS 4A-MS 4B Leadership and Management IV: Seminar on Command and Staff Functions. Fall and spring terms. Credit four hours. W Th 3:35.

A seminar two hours a week on selected leadership and management problems in administration, military justice, command and staff, and personal affairs.

Practical Leadership Training

Training periods will be conducted on Wednesday or Thursday afternoons from 2:30 until 3:30. No academic credit is awarded for this program requirement.

Freshmen and sophomores will participate approximately five times during each term. The cadet is introduced to the organization of the Army; gains experience in actual leadership situations; and learns the fundamentals of military drill and ceremonies, wearing the uniform, military courtesy, and discipline.

Junior cadets will participate one hour a week utilizing the basic organization of a platoon in developing and exercising their own leadership techniques. Following the junior year they will attend a six-week advanced ROTC summer camp at an Army installation.

Senior cadets plan, organize, and supervise all training activities of freshmen, sophomores, and juniors.

The United States Naval ROTC Program

The objective of the Naval ROTC program is to prepare the student for service as a commissioned officer in the United States Navy or United States Marine Corps by supplementing his undergraduate education with instruction in essential concepts of naval science and fostering his development in the qualities of leadership, integrity, and dedication to his country and the naval service. Though the NROTC program has been designed to prepare future officers, NROTC courses are open to all students at Cornell University. The NROTC program is compatible with any undergraduate major field of study, including five-year baccalaureate degree programs.

NROTC College Scholarship Program

NROTC College Scholarship students are selected annually by state selection boards on the basis of nationwide competition. Scholarship students are given all tuition, fees, books, uniforms, and \$50 per month. They receive a regular as opposed to a reserve commission and agree to serve on active duty for a minimum of four years.

NROTC College Program

NROTC College Program students are selected by the professor of naval science from freshmen applicants during fall registration. There are also a limited number of sophomore applicants accepted in the fall. All freshmen or sophomores who are interested in the NROTC College Program should inquire at the NROTC unit in Barton Hall, preferably during the fall registration period. NROTC College Program students receive free naval science textbooks, course materials, uniforms, and, during the last two years, \$50 per month. After entrance into the NROTC College Program, students are eligible to apply for the NROTC College Scholarship Program.

Naval Science Student

NROTC courses are open to all members of the Cornell student body as space limitations will allow. The non-Navy ROTC student will not be required to attend laboratory sessions or be issued uniforms. Only fully enrolled NROTC students will be tendered a commission at the completion of the program.

General Curriculum

Students enrolled in the NROTC College or NROTC College Scholarship Programs attend the same classes and receive the same instruction. The curriculum for the first two years is common to both Navy and Marine Corps candidates. During his second year a student may elect the Marine Corps

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Flight deck on a nuclear-powered aircraft carrier.



Nuclear-powered cruiser as viewed from a missile destroyer.

curriculum for the third and fourth years and, if selected, will receive his commission in the Marine Corps. These courses are indicated by the letter M in the curriculum and schedule of classes (e.g., NS 401M).

Requirements

An applicant for Naval ROTC at Cornell must be a male citizen of the United States; he must have reached his seventeenth and not have passed his twenty-first birthday on June 30 of the entering year. If he matriculates in a major field of study requiring five years for a baccalaureate degree, he must not have passed his twentieth birthday on June 30 of the entering year. Students enrolled in a five-year academic program will be placed in a leave status with respect to the Department of Naval Science (draft deferment continues) during the third year. Waivers of the upper age limit may be granted on an individual basis by the chief of naval personnel up to age twenty-seven and a half at time of appointment.

There are no restrictions regarding the courses in which a College Program student may enroll, provided the courses lead to a baccalaureate degree. A College Scholarship student must have the approval of the professor of naval science in the selection of his major course of study; however, there is normally no objection to the student's choice. In addition to the required naval science courses, the following are required: (a) American Military Affairs and National Security Policy, or six hours designated equivalent courses in history or political science, (b) mathematics through calculus, or a course in statistics and probability, or six hours of designated equivalents; (c) six hours of physics or chemistry, or biological or earth sciences; and (d) three hours of computer science. The professor of naval science may authorize waivers of the foregoing courses based on prior satisfactory completion of equivalent courses.

NROTC Flight Indoctrination Program

The NROTC Flight Indoctrination Program is available at no cost to all junior and senior NROTC students motivated toward naval or marine aviation. Students must pass a naval aviation physical examination to be eligible for the program. Physicals are arranged at no cost to the student. This selective program affords an opportunity to become proficient in the fundamentals of aviation and qualify for a private pilot's license through the Federal Aviation Agency.

The program provides thirty-five hours of ground instruction and forty hours of flying instruction. Instruction is provided by a local flying school. Upon commissioning, graduates may be ordered to naval aviation training at Pensacola, Florida.

Duty Assignments

Graduates commissioned as Navy or Naval Reserve officers are ordered to sea duty or shore duty as the needs of the service require. Each graduate

has an opportunity to request his preferred type of duty upon graduation. These requests are given careful consideration, and every effort is made to assign the newly commissioned officer to the duty of his choice. Included among the types of duty are: naval aviation, submarines, large and small surface ships, nuclear power training, civil engineer corps, supply corps, and mess management (for hotel administration graduates).

Though most newly commissioned officers can expect to report to their first duty station after a short graduation leave, delays in active duty to attend graduate school are available to a limited number of NROTC College Program students, depending on the Navy's needs at the time. In addition, highly qualified College Program and College Scholarship Program students may apply for the Navy's Immediate Graduate Education Program (IGEP) which leads to a Master's degree in many academic fields. Graduate education is also available after the initial tour of duty. Graduates commissioned in the Marine Corps or Marine Corps Reserve attend a seven-month basic course at Quantico, Virginia. Upon completion of the basic course, each officer submits his preference for type of duty. Major types of duty include: infantry, aviation, field artillery, engineer, tracked vehicles, supply, and communications.

Curriculum and Schedule of Classes

Freshman Year

Each midshipman is required to take ME 3301, six credit hours of mathematics alternatives, six credit hours of science alternatives, and a weekly NROTC professional laboratory. (Marine option students will take the same courses as naval candidates in both freshman and sophomore years.)

ME 3301 Naval Ship Systems. Spring term. Credit three hours. Lecture-recitation as scheduled in the Announcement of the College of Engineering.

An introduction to primary ship systems and their interrelation. Basic principles of propulsion, control, internal communications, structure, and other marine systems are considered.

Below is a list of mathematics alternatives available to midshipmen.*

MATH 111, 111c, 112 Calculus.

MATH 191, 192, 193, 194 Calculus for Engineers

MATH 107, 108 Finite Mathematics and Calculus with Applications to the Biological and Social Sciences.

AG EC 110 Introductory College Mathematics.

AG EC 314 Introductory Statistics.

BIOMT 200 Data Collection and Interpretation.

ILR 210 Statistics I (Statistical Reasoning).

ILR 211 Economics and Social Statistics.

ILR 311 Statistics II.

Below is a list of science alternatives available to midshipmen.*

CHEM 107, 108 General Chemistry.

CHEM 115 General Chemistry and Inorganic Qualitative Analysis.

BIO SCI 101, 102 Blological Sciences.

GEOL SCI 101, 102 Introductory Geological Science

GEOL SCI 111 Earth Science.

H ADM 214, 215 Chemistry.

PHYS 101, 102 General Physics.

PHYS 112 Introductory Analytical Physics I.

* Normally, midshipmen will complete required mathematics and science courses by the start of their junior year.

PHYS 201, 202 Aspects of the Physical World.
PHYS 207, 208 Fundamentals of Physics.

Sophomore Year

Each midshipman is required to take JMS 301, NS 202, three credit hours of history or government alternatives, and a weekly NROTC professional laboratory.

JMS 301 Anatomy of Warfare. Fall term. Credit three (or four) hours. M W F 8, 9:05, or 1:30. Joint military staff.

A joint military service course designed to provide the student with a basic knowledge of the art, concepts, and evolution of warfare from the beginning of recorded history to the present.

NS 202 Seapower/Maritime Affairs. Spring term. No credit. Seminar: four two-hour sessions. Staff.

A discussion seminar to explore the meaning and modern applicability of seapower concepts, including such components as naval power, ocean science, ocean industry, and ocean commerce.

Below is a list of history and government alternatives available to midshipmen.

GOV 334 Foreign Policy of the U.S.S.R.

GOV 349 Political Role of the Military.

GOV 350 Comparative Revolutions.

GOV 371 Defense Policy and Arms Control.

GOV 206 Introduction to International Relations.

GOV 471 International Law and World Politics: Peaceful Functions.

GOV 472 International Law and World Politics: War and Armed Conflict.

GOV 375 Contemporary American Foreign Policy.

GOV 478 The Foreign Policy of China.

HIST 309 Introduction to Russian History.

HIST 310 Major Problems in Russian History.

HIST 383, 384 History of American Foreign Relations.

HIST 484 Motivations of American Foreign Policy.

Junior Year

Each midshipman (except for marine option students) is required to take CE 2453, NS 302,

three credit hours of computer science alternatives, and a weekly NROTC professional laboratory.

CE 2453 Principles of Navigation. Fall term. Credit four hours. Lecture-recitation, project work as scheduled in the Announcement of the College of Engineering. Mr. Lyon.

Coordinate systems, chart projections, navigational aids, instruments, compass observations, tide and current soundings. Celestial navigation: time, spherical trigonometry, motion of the stars and sun, star identification, position fixing, and use of nautical almanac. Electronic navigation.

NS 302 Naval Operations Analysis. Spring term. Credit three hours. Lecture-recitation to be arranged. Staff.

Study of the processes of planning and executing naval operations. Review of principles of probability, two-person zero sum game theory, and mathematical models of detection theory leading to sonar and screening theory. Communications theory, security, and intelligence in relation to planning and executing naval operations. Course concludes with problems in which student teams plan a typical naval operation and write an operation order.

Below is a list of computer science alternatives available to midshipmen.

C SCI 201 Survey of Computer Science.

C SCI 202 Computers and Programming.

PLAN 536 Introduction to Computers in Planning.

BIOMT 407 Computer Techniques for Statistics and Biology.

H ADM 469 Fundamentals of Computers.

Marine Option Students

Each marine option student is required to take a course for three credit hours in a selected field approved by the marine option instructor and a weekly NROTC professional laboratory. Selected fields include:

Anthropology
Behavioral Sciences
Communication Methods
Economics
Geography
Languages
Management Engineering
Philosophy
Political Science
Sociology
Upper-Level Computer Sciences
World History

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Senior Year

Each midshipman (except marine option students) is required to take NS 401, NS 402, three credit hours of management alternatives, and a weekly NROTC professional laboratory.

NS 401 Naval Weapons Systems. Fall term. Credit three hours, Lecture-recitation and laboratory to be arranged. Staff.

A study of the concepts of weapons systems. Functions and elements of weapon systems to include fire control problems, fuzing, safety, arming, damage effects, and automatic control systems. Limitations and capabilities of sensors, command and control of weapons, and finally the moral issue of weapons employment.

NS 402 Naval Organization and Management. Spring term. No credit. Seminar: one hour weekly. Staff.

A discussion seminar of scientific principles and functions of management relevant to the naval environment and the structure of naval organization. Explores theories and findings from the behavioral sciences relevant to leadership with particular emphasis on self-development and individual responsibility.

Below is a list of management alternatives available to Midshipmen.

AG 327 Business Organization and Management.

- BPA 121 Personnel Administration and Human Relations.
- **BPA 500** Human Relations in Administration.
- H ADM 119 Organizational Behavior and Management.
- ILR 360 Manpower and Organization Management.
- ILR 450 Personnel Administration in Super-
- ILR 562 Administrative Theory and Practice.

Marine Option Students

Each marine option student is required to take NS 401M, a course for three credit hours from a selected field listed for junior year marine option students, and a weekly NROTC professional laboratory.

NS 401M Amphibious Warfare. Fall term. Credit three hours. Lecture-recitation to be arranged. Staff.

A study of the development, theory, techniques, and conduct of amphibious operations beginning with Gallipoli in 1914. Special emphasis is placed upon amphibious operations conducted in the Central Pacific during World War II.

The United States Air Force ROTC Program

The mission of the Air Force ROTC is to produce highly qualified career officers to fulfill stated Air Force requirements.

The Department of Aerospace Studies offers both a four-year and a two-year program leading to a commission in the United States Air Force Reserve. Courses of study are designed to prepare the student for his role as an informed citizen and as an officer in the United States Air Force.

The Department of Aerospace Studies also offers a course substitution program in which cadets substitute regular college courses in place of some of the Air Force ROTC courses.

The Four-Year Program

The four-year program consists of four semesters of the General Military Course, four semesters of the Professional Officer Course, a four-week summer field training unit between the sophomore and junior years, and Corps Training each semester. Acceptance to the Professional Officer Course is based upon the student's academic and physical standards and his general performance during the first two years.

General Military Course

The General Military Course (GMC) covers the freshman and sophomore years and includes courses in introductory aerospace studies, leadership, and United States defense policy. Introductory aerospace studies and leadership are taught by Air Force officers. Textbooks and uniforms are furnished. A \$30 uniform deposit is required.

Professional Officer Course

The Professional Officer Course (POC) is an advanced course of instruction in aerospace studies and leadership experiences during the junior and senior years. Each cadet accepted into the POC must enlist in the Air Force Reserve. He also must sign an agreement to complete the program and accept a commission in the Air Force Reserve, if tendered, upon graduation. Each cadet receives a subsistence fee of \$50 a month for a maximum of twenty months. Uniforms are furnished at no cost to the cadet. Cadets are classified in relation to their college educational background:

Category I. Pilot and navigator

Category II. Technical (engineering and science)

Category III. Nontechnical (agriculture, history, English, etc)

See the curriculum (p. 26) for course description.

Field Training

The cadet attends a four-week summer field training unit at an Air Force base, usually close to his home, between the sophomore and junior years. The field training unit provides the opportunity to see the Air Force in

operation. The cadet will visit various offices and agencies that are normally found on an Air Force base, such as those related to engineering, the military police, procurement, supply, food service, and law. He also participates in an orientation flight. Each cadet attending the field training program is furnished uniforms, medical attention, food, lodging, transportation to and from field training, and pay of \$225.30.

AFROTC College Scholarship Program

Cadets enrolled in the four-year program are offered the opportunity to apply for Air Force ROTC College Scholarships. These scholarships are based upon individual qualifications and the needs of the Air Force.

Entering Freshmen may apply during their high school senior year. All other Air Force ROTC cadets may apply each year. Cadets must have at least a 2.25 cumulative grade point average and meet commissioning physical requirements.

TYPICAL AIR FORCE CAREERS

If your major is in:

Any Undergraduate Subject

Engineering

You may serve as:

Pilot/Navigator

Development Engineering Officer

Missile Maintenance Officer Avionics Officer

Aircraft Maintenance Officer

Communications Officer

Missile Launch Officer

Management Engineering Officer

Intelligence Officer

Administration Management Officer

Economics

Logistics Officer Data Automation Officer

Officer Open Mess Manager Health Services Administrator

Procurement Officer

Manpower Management Officer

Information Officer

Weather Officer

History or Government

Mathematics

Hotel Administration

Industrial and Labor Relations

Communication Arts Meteorology

Each cadet, upon accepting an Air Force ROTC College Scholarship, must enlist in the Air Force Reserve, sign an agreement to complete the program, and accept a commission, if tendered, upon graduation. The scholarship pays tuition, fees, \$75 a year toward textbook costs, and a subsistence allowance of \$50 a month.



Training in the Flight Instruction Program is conducted in light aircraft.

Curriculum

General Military Course

Freshman Year

Each cadet must satisfactorily complete AS 100A and AS 100B. Corps Training is required in both semesters.

AS 100A U.S. Military Forces in the Contemporary World. Fall term. Credit one hour. Major Raroha.

An introductory study of current United States military forces with emphasis on the analysis of the doctrine, mission, and organization of the United States Air Force. The Air Force's Strategic Air Command and the Navy's Fleet Ballistic Missile System are explored as elements of strategic offensive forces. Aircraft and missile defense is studied. A field trip to an Air Force SAGE Center is included.

AS 100B U.S. Military Forces in the Contemporary World. Spring term. Credit one hour, Major Raroha.

A study of general purpose and aerospace support forces of the United States. Emphasizes the mission, resources, and operation of tactical air forces. Included is an overview of defense organization and sources of power.

AS 101A/B Laboratory in Initial Military Experiences (Corps Training). Both terms. No credit. Staff.

The cadet is introduced to the responsibilities, life, and work of an Air Force officer. He gains experience in actual leadership situations and learns the fundamentals of military drill and ceremonies, the wearing of the uniform, military courtesy, discipline, and organization.

Sophomore Year

Each cadet must successfully complete AS 200B and JMS 301. Government 321 may be substituted for JMS 301 with Department approval. Corps Training is required each semester.

JMS 301 Anatomy of Warfare. Fall term. Credit four hours. Joint military staff.

A joint military service course designed to provide the student with a knowledge of the art, concepts, and evolution of warfare from the beginning of recorded history to the present.

AS 200B Elements of U.S. Defense Policy. Spring term. Credit one hour. Major Raroha.

A study of the elements and processes in the making of U.S. defense policy. The effects of Soviet and Chinese military strategies on these processes will also be examined.

GOV 321 Politics and Public Policy. Fail term. Credit four hours. Mr. Nadel.

A study of public policy in the federal government covering both the processes of policy information and the systematic analysis of policy outcomes. Special emphasis will be given to economic, environmental, and national security policies.

AS 201A/B Laboratory in Initial Military Experiences (Corps Training). Both terms. No credit. Staff.

The cadet is given additional experience in leadership situations and gains a better understanding of the responsibilities, life, and work of an Air Force officer.

Professional Officer Course

Junior Year

Prerequisites for the junior year include successful completion of either the first two years of Air Force ROTC curriculum or the sixweek field training unit. All cadets are required to successfully complete AS 300A. Engineering and science cadets must also complete Aerospace Engineering 7002. Cadets pursuing majors other than engineering or science will be required to complete Computer Science 201 or Computer Appreciation 4110. All cadets are required to take Corps Training each semester.

AS 300A Nuclear Age Aerospace Force. Fall term. Credit three hours. Major Voyles.

Analysis of contemporary aerospace power dealing with strategies and military programs in the nuclear age. Study of current manned aircraft, its future, and a survey of the history of Soviet and U.S. space programs.

7002 (Aerospace Engineering) Introduction to Aerospace Systems. Spring term. Credit three hours. Required of engineering and science majors. Mr. Turcotte.

Topics will be chosen from the following list: mechanics of trajectories and orbits; propulsion systems including chemical, nuclear, and advanced; guidance, tracking, and communications system; the problem of reentry; life support. Applications to be discussed will include missiles and military systems, communication and navigation satellites, geology, cls-lunar probes, lunar and planetary exploration, and deep space probes.

201 Survey of Computer Science. Fall term. Credit three hours. Required of students who

are not majoring in engineering or science unless 4110 is selected.

Introduction to the structure and use of the modern computer. Intended to be an overview of the material; emphasis is on nonumeric computer applications, such as information retrieval, language processing, and artificial intelligence. A limited introduction to programming in a problem-oriented language is included.

4110 Computer Appreciation. Either term. Credit three hours. Required of students who are not majoring in engineering or science unless 201 is selected. Two lectures, one laboratory.

Organization and structure of the digital computer with particular reference to the contribution of modern technology to computer development. The digital computer will be separated into its basic units and the function of these units alone and in total will be investigated. Tools employed in this investigation will be a mechanical simulator of a digital computer (Digi-Comp II) and a logic board consisting of switches and relays. Work with machine language and the development of "software" will lead into programming languages and their application.

AS 301A/B Laboratory in Advanced Leadership Experiences (Corps Training). Both terms. No credit. Staff.

See description in the section following Senior Year.

Senior Year

All cadets are required to successfully complete AS 400B and one of the five management courses described below.

AS 400B The Professional Officer. Spring term. Credit three hours. Lieutenant Colonel Heberling.

A study of Air Force leadership at the junior officer level, including basic concepts of human behavior, motivation, and human relations. Leadership and leadership variables are analyzed by group discussion, case studies, and role playing. Essentials of the military justice system are examined. Cadets present oral and written reports.

BPA 121 Personnel Administration and Human Relations, Both terms. Credit three hours. Mr. Brooks.

The objective of this course is to develop an understanding of the policies, methods, and techniques utilized in personnel management and human relations. Specific attention is given to problems of recruitment, selection, training, compensation, motivation, communications, service and benefit programs, performance evaluation, management by objectives, safety, discipline, and community

relations. The capacity to analyze problems to select the most effective means of dealing with them and to plan appropriate courses of action is developed through case studies. Attention is also given to analysis trends in personnel management.

ILR 360 Manpower and Organization Management. Spring term. Credit three hours.

Department faculty.

Study and analysis of public and private policies and programs for forecasting, planning, recruiting, selecting, developing, utilizing, upgrading, rehabilitating, and evaluating manpower resources at the individual organizational (micro) level and at societal (macro) level. A multi-disciplinary approach is used in an analysis of theory, policy, and programs. At the public level this subject matter involves identification and measurement of human talent; education, training, and development of the work force; manpower planning, manpower information and standards; motivation and morale factors; mobility; distribution of manpower; rehabilitation and other organizational analysis, planning and reorganization; manpower forecasting and planning; recruitment and selection of work forces; education, training, development, and retraining, compensation, incentives, and rewards; performance appraisal; communications systems; leadership, supervision, and control; manpower utilization and analysis of problems.

ILR 450 Personnel Administration in Super-Both terms. Credits three hours. Faculty of the Department of Organizational Behavior.

A review of the personnel function in business and industry with emphasis on the personnel responsibilities of the line supervisor. The course is closely linked to evidence developed by behavioral sciences research. Topics of discussion will include organization theory, leadership, organization structure and change, group influences on individuals, employee motivation, and other human problems of management. Specific personnel administration functions and practices, as they are related to these problems, also will be included, e.g., selecting, inducting, training, rating, and compensating employees; developing techniques for interviewing; adjusting complaints and grievances; and aiding in the solution of employee and supervisory problems. Selected readings, case studies, discussion, and projects.

ILR 567 Management and Leadership Development. Fall term. Credit three hours. Mr. Foltman.

Study of the factors affecting growth and development of managers and leaders in industrial and other organizations. Consideration is given to organizational environment, formal and informal developmental programs, leadership theory, and individual attitudes and beliefs. Special emphasis is given to analysis of specific case studies of actual practice.

H ADM 113 Personnel Administration. terms. Credit three hours. Mr. Dermody.

A practically oriented approach to personnel management, including an introduction to organizational behavior, the selection and placement of personnel, the role of supervision, performance appraisal, wage salary administration. Class discussion is based on case studies drawn from industry.

AS 401A/B Laboratory in Advanced Leadership Experience (Corps Training). Both terms. No credit. Staff.

A cadet military organization, the Cadet Squadron, is used as a vehicle to develop leadership potential. Cadets plan, organize, conduct, and supervise all activities in the Cadet Squadron, thus participating first-hand in the duties, functions, and responsibilities of Air Force commanders.

Flight Instruction

Prospective pilots in their senior year participate in the Air Force ROTC flight instruction program at no cost.

This flying program consists of 361/2 hours of flying training in a light aircraft at a local airport. Upon completion of the program, a cadet may apply for a private pilot's license through the Federal Aviation Agency.

Active Duty

Upon completion of either the four-year or two-year Air Force ROTC program and graduation from Cornell, the cadet is commissioned as a second lieutenant, Air Force Reserve. The length of active service required is four years for engineers and general service category officers. Pilot and navigator trainees are required to complete five years after receipt of their aeronautical rating. Service is normally as a second lieutenant for one and a half years, as a first lieutenant for one and a half years, and as a captain after three years. Those who wish to obtain advanced degrees may apply for educational delay in reporting for active duty.

Those cadets designated as Distinguished Air Force ROTC Graduates may be offered commissions in the Regular Air Force upon graduation. Others have an excellent opportunity to compete for a regular commission during their early years of service.

Duty Assignments

Air Force policy has been to assign each new officer to a career field which closely approximates his educational background. Students in the engineering-scientific category may be assigned to practice in their specialty in research and development, communications, aeronautics, astronautics, design and development, the biological sciences, computer design and maintenance, weather, or various other engineering and scientific fields. They will work under the supervision of some of the most highly qualified men in their field and have access to the latest scientific facilities and equipment.

Pilots and navigators, after completion of flying training, are assigned primary duties flying various aircraft types depending upon their desires and the needs of the Air Force.

Those officers graduating under the general category can anticipate assignments in man-power management, administration, logistics, police and investigation, intelligence, personnel, transportation, information, and numerous other career fields. They will use their educational backgrounds in positions of responsibility and be given the opportunity to develop further their managerial and administrative skills.

ROTC Extracurricular Activities

Rifle Teams

Cornell University has a varsity and freshman rifle team coached by a member of the Department of Military Science. The varsity participates in twenty "shoulder-to-shoulder" matches a year including the annual lvy League Tournament and the National Rifle Association Sectional Matches.

In addition, the Army sponsors an ROTC rifle team that competes for national and intercollegiate honors through the medium of postal matches.

The range is located in Barton Hall where weapons, ammunition, targets, and instruction are provided.

The Cornell Rangers

The Cornell Rangers are dedicated to learning skills which increase an individual's confidence and help him become an effective combat leader. Its long-range objectives are to realize the value of staying in good physical shape, to achieve proficiency in Ranger operations, to promote enthusiasm for the ROTC program, and to motivate qualified cadets to seek a career in the Army.

The program emphasizes outdoor training and learning by doing. Training is conducted twice weekly by qualified senior cadets of the organization and supervised by the Army ROTC cadre. Membership is selected from Army, Navy, and Air Force ROTC cadets.

Scabbard and Blade

The National Society of Scabbard and Blade, a tri-service military honorary society, is represented at Cornell by Company C, 1st Regiment. Its purpose is to raise the standard of military education in colleges and universities, to unite the military departments in closer relationships, to encourage and foster the essential qualities of good and efficient officers, and to promote friendship and good fellowship among all cadet officers. Membership is selected from ROTC cadets of all three services.

Arnold Air Society

The Arnold Air Society is a national honor society, named for the late General Henry H. (Hap) Arnold of the Air Force. It was organized in order to further the purpose, mission, tradition, and concept of the United States Air Force as a means of national defense, to promote American citizenship, and to create a close and more efficient relationship among the Air Force Reserve Officers Training Corps cadets. Membership is offered to a limited number of Air Force cadets. The society has over 170 squadrons on campuses of various colleges and universities in the United States and Puerto Rico.

Narmid

The NARMID Society, the naval honorary society, is open to members of the junior and senior class and second-term sophomores who stand high in their class in aptitude for the service. NARMID acts as a service organization managing the extracurricular social, athletic, and journalistic activities program for midshipmen in the NROTC unit. The society also conducts its own social and fraternal program to promote the spirit of comradeship among the members. Because of its wide range of activities, the Society enables its members to assume responsibilities early, and better prepares them for the duties required of Naval and Marine officers.

Semper Fidelis Society

Semper Fidelis is the Marine Corps honorary society. Those eligible for membership are Cornell students enrolled in a program leading to a commission as an officer in the United States Marine Corps.

The objective of this Society is to prepare future officers of the United States Marine Corps for their responsibilities when commissioned. This is accomplished by the dissemination of information pertinent to a better understanding of officers' duties, by the stimulation and protection of the high tradition and ideals of the United States Marine Corps, by the promotion of good fellowship, and by the cultivation of social virtues among the members.

REQUEST FOR FURTHER INFORMATION

Requests for further information regarding admission to the ROTC programs may be made by filling out and mailing the coupon below. (Cross out all but desired addressee.)

Professor of Military Science Professor of Naval Science Professor of Aerospace Studies (ROTC) Cornell University, Ithaca, New York 14850
Dear Sir: I would like to receive further information about: [check one]
☐ Army ROTC. ☐ Naval ROTC. ☐ Air Force ROTC.
I will be in the College (or School) of
Signature
Name (printed)
Address
(Enter specific questions on reverse side.)

CORNELL UNIVERSITY ANNOUNCEMENTS

The Cornell Announcements are designed to give prospective students and others information about the University. The prospective student should have a copy of the Announcement of General Information; after consulting that, he may wish to write for one or more of the following Announcements:

New York State College of Agriculture
College of Architecture, Art, and Planning
College of Arts and Sciences
Department of Asian Studies
Education
College of Engineering
New York State College of Human Ecology
School of Hotel Administration
New York State School of Industrial and Labor Relations
Officer Education (ROTC)
Summer Session

Undergraduate preparation in a recognized college or university is required for admission to certain Cornell divisions, for which the following *Announcements* are available:

Graduate School: Biological Sciences

Graduate School: Humanities

Graduate School: Physical Sciences
Graduate School: Social Sciences

Law School

Veterinary College

Graduate School of Business and Public Administration

Graduate School of Nutrition

Medical College (New York City)

Cornell University—New York Hospital School of Nursing (New York City)

Graduate School of Medical Sciences (New York City)

Requests for the publications listed above may be addressed to CORNELL UNIVERSITY ANNOUNCEMENTS Edmund Ezra Day Hall, Ithaca, New York 14850

(The writer should include his zip code.)