

CORNELL UNIVERSITY
ANNOUNCEMENTS

MAY 22, 1963

MILITARY TRAINING
1963—1964

ACADEMIC CALENDAR (Tentative)

1963-1964

1964-1965

Sept. 21	....S.....	Freshman Orientation.....	Sept. 19	....S
Sept. 23	....M.....	Registration, new students.....	Sept. 21	....M
Sept. 24	....T.....	Registration, old students.....	Sept. 22	....T
Sept. 25	....W.....	Instruction begins, 1 p.m.....	Sept. 23	....W
Nov. 13	....W.....	Midterm grades due.....	Nov. 11	....W
		Thanksgiving recess:		
Nov. 27	....W.....	Instruction suspended, 12:50 p.m.....	Nov. 25	....W
Dec. 2	....M.....	Instruction resumed, 8 a.m.....	Nov. 30	....M
		Christmas Recess:		
Dec. 21	....S.....	Instruction suspended, 12:50 p.m.....	Dec. 19	....S
Jan. 6	....M.....	Instruction resumed, 8 a.m.....	Jan. 4	....M
Jan. 25	....S.....	First-term instruction ends.....	Jan. 23	....S
Jan. 27	....M.....	Second-term registration, old students.....	Jan. 25	....M
Jan. 28	....T.....	Examinations begin.....	Jan. 26	....T
Feb. 5	....W.....	Examinations end.....	Feb. 3	....W
Feb. 6	....Th.....	Midyear recess.....	Feb. 4	....Th
Feb. 7	....F.....	Midyear recess.....	Feb. 5	....F
Feb. 8	....S.....	Registration, new students.....	Feb. 6	....S
Feb. 10	....M.....	Second-term instruction begins.....	Feb. 8	....M
Mar. 27	....F.....	Midterm grades due.....	Mar. 26	....F
		Spring recess:		
Mar. 28	....S.....	Instruction suspended, 12:50 p.m.....	Mar. 27	....S
Apr. 6	....M.....	Instruction resumed, 8 a.m.....	Apr. 5	....M
May 30	....S.....	Second-term instruction ends.....	May 29	....S
June 1M.....	Examinations begin.....	May 31M
June 9T.....	Examinations end.....	June 8T
June 15M.....	Commencement Day.....	June 14M

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MILITARY TRAINING AT CORNELL

1963-1964

**THE DEPARTMENTS OF
MILITARY SCIENCE
NAVAL SCIENCE
AND
AIR SCIENCE**

TO THE FRESHMAN CLASS

AS A land grant institution chartered under the Morrill Act of 1862, Cornell has offered instruction in military science for more than ninety years. This instruction is provided through the ROTC programs of the three military departments, the Army, the Navy, and the Air Force.

These programs offer a male student the opportunity to earn a commission while he is completing his education, thus enabling him to fulfill his military commitment as an officer rather than through the draft. To obtain a commission in one of the armed services, a student must complete a four-year course of study in an ROTC program and meet certain physical and mental requirements. Upon graduation he then receives a commission and serves a required tour of active military service.

Participation in ROTC is voluntary. Interested students should enroll in the fall of the freshman year, since four years of ROTC are required to qualify for a commission.

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MILITARY TRAINING AT CORNELL

FROM its founding, more than ninety years ago, Cornell University has provided instruction in military science to its students. As a result, a legion of Cornell graduates have received officer commissions and have served with distinction in the armed services of our nation. In peace and war, Cornellians in the military have played important roles in strengthening the defenses so necessary to the continued well-being of the United States.

In these times of continuous international tensions, our government has had to continue a wartime measure, the Selective Service Act, to ensure that the armed forces would remain in the high state of readiness which has proved to be so effective in preventing war. This Act, commonly called the "Draft," requires a period of military service from every able-bodied young American. It, in effect, continues the tradition of the citizen army which has fought our country's battles since its earliest days.

Cornell and many other educational institutions, in coordination with the Armed Services, have made it possible for college students to prepare themselves to serve their country in positions of leadership while they are completing their college education and preparing for future careers. Since 1917 this has been done through the Reserve Officers' Training Corps.

Cornell is fortunate in having ROTC programs offered by the three military departments, the Army, the Navy, and the Air Force. These programs, which are on a voluntary basis, are alike in that each has a four-year course leading to a commission in the reserve forces upon graduation. There is opportunity for capable and interested students to obtain regular commissions and enter upon military careers.

The armed services need a continuous supply of young officers. At the present time colleges and universities through the ROTC provide the largest number of these officers.

We here at Cornell and the alumni who have gone before want to see the tradition of Cornellian participation in positions of military leadership carried on in the future in the same full measure that it has been in the past. Cornell looks to you, the new Cornellians, to continue what your predecessors have done so well.

DEANE W. MALOTT
President
Cornell University

MILITARY SERVICE TODAY

THROUGH the years, since the founding of our nation, each citizen has been expected to contribute to the defense of his country and the American ideal. The existence of the Selective Service law and the various Reserve and National Guard programs, all of which were established by our government with the approval of the voting public, is evidence of a universal obligation for military service.

A realization of this duty to the country usually develops in the young American when he becomes eligible for Selective Service at age 18, or just about the time he is entering college. It is at this point that he will or should decide what to do about his military obligation. Too often, however, this decision is postponed until a letter from his Selective Service Board makes it for him.

Delay in making a decision about military service is frequently due to a lack of knowledge about the several methods by which an individual can meet his obligation. The summary that follows and the other material in this booklet should help students in choosing a course of action.

SELECTIVE SERVICE

All able-bodied males between the ages of 18 and 26 are included. Lieutenant General Hershey, Director of Selective Service, has stated:

We can't tell a man when he will be drafted and give him a number and a date on the calendar. There are too many variables, as the scientists say. It depends upon the needs of the services, how many volunteer, how many are deferred.

All we know is that we are drafting men around the age of 23, and that just about everyone who is qualified physically and mentally, and isn't otherwise deferred, will be called by the time he is 26. . . .*

College students can obtain Selective Service deferments until they graduate provided they maintain satisfactory academic standing (upper half for freshmen, upper two-thirds for sophomores, and upper three-fourths for upperclassmen). Selectees serve for two years on active duty in an enlisted status and then with a Reserve component for four years—a total of six years.

Further information about Selective Service may be obtained at the Registrar's Office, 242 Day Hall.

NATIONAL GUARD OR RESERVE

A young man between the ages of 17 and 18½ years who enlists in the National Guard or Reserve must take 6 months' active duty training as an enlisted man, then spend 3 years in the Guard or Reserve and 4½ years in the Standby Reserve—a total of 8 years. If he enlists in the Reserve between ages 18½ and

* *Newsweek*, April 4, 1960, p. 40.

25 (inclusive) he must serve $5\frac{1}{2}$ years in the Ready Reserve after his 6 months' active training—a total of 6 years. The requirement for 6 months' active duty will probably postpone or interrupt his college career.

ARMY, NAVY, AIR FORCE RESERVE OFFICERS' TRAINING CORPS (ROTC, NROTC, AFROTC)

The ROTC programs (Army, Navy, Air Force) offer a college student the opportunity to fulfill his military commitment as a commissioned officer. To obtain a commission in one of the services, a student must complete the basic and advanced courses in one of the ROTC programs and meet certain mental and physical requirements. Upon graduation he receives a commission and, commencing within one year after graduation, serves an active duty tour of from 6 months to 5 years. Length of active service varies within each service and category.

A Cornell graduate can assume a leadership responsibility commensurate with his academic achievement by performing his military service as an officer. The ROTC program provides the means for the student to become a commissioned officer and thus to serve his country and himself. As an officer, his military status will match his academic background and his recognized potential for leadership in our society.

The ROTC programs of the Army, Navy, and Air Force furnish over 21,000 active duty officers annually—over half of those required by our military services. These officers have served and are serving with distinction in our armed forces worldwide.

How each Cornell student solves his military service problem is a personal matter. He should assemble the facts, consult with his advisers, and then make his decision. The alternatives are clear: Will he serve voluntarily or by Selective Service? As an officer or an enlisted man? However, the decision must be made when he enters college, since four years of ROTC training are required for commissioning.

HISTORY OF ROTC AT CORNELL

CORNELL UNIVERSITY, established as a land grant institution in 1865, has offered courses in the military arts since 1868, and military instruction has been an integral part of the Cornell experience, with few exceptions, since that early date.

Prior to World War I, military training was administered by an officer detailed by the War Department as a professor of military science and tactics, assisted by one or more noncommissioned officers of the regular Army. For some time subsequent to 1868, cadets lived under military conditions. The uniform was the accepted dress, and cadets moving in formation were a common sight.

The following is quoted from a military order of 1868 with respect to University policy:

It is granted that this great University was not founded for the purpose of educating soldiers, but it can imbue citizens with all that is good in soldiers and fit them to be soldiers in time of need. Who is to say that its results will not be commensurate with its high purpose, and its influence as beneficent, as the efforts to intend them are self-sacrificing and earnest?

History has shown that the high purpose has been and is being fulfilled. Cornellians served with distinction in World War I as leaders of men in combat and contributed greatly to our national effort.

Subsequent to World War I the Reserve Officers' Training Corps was established. During the next two decades, the Corps produced numerous reserve officers who, when called to active duty during World War II, helped provide the national capability to expand our military force and win the war. General George C. Marshall, Chief of Staff during World War II, stated that "the rapid mobilization and effective leadership provided our armed forces in World War II was made possible by the large number of officers trained in the ROTC programs." Without this capable and trained reserve it is conceivable that the war would have been longer and more costly. Cornellians contributed greatly in this effort, many of them reaching positions of great responsibility and leadership.

In the post-World War II era, Navy and Air Force training was made available to the student. As a result, many Cornellians served their country as officers during the Korean conflict in all of the military forces.

The place of the reserve officer in this period of international tension and in any future national emergency is well recognized, and, because of this, Cornell University and the Department of Defense have placed special emphasis and a high priority on training the reserve officer. The program is under continuous review and is changed to meet new situations and new developments in technology. Cornell graduates, commissioned in the reserve or regular forces, can be assured that their training will prepare them to take their places in the modern military establishment and to lead men in the defense of their country; thus carrying on the Cornell tradition of service.

ROTC EXTRACURRICULAR ACTIVITIES

RIFLE TEAMS

CORNELL UNIVERSITY has a varsity and a freshman rifle team coached by members of the Department of Military Science. The varsity participates in about 17 "shoulder to shoulder" matches a year, including the Ivy League Tournament at New Haven and National Rifle Association at Buffalo.

In addition, the Army, Navy, and Air Force sponsor ROTC rifle teams that compete for national and intercollegiate honors through the medium of postal matches.

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

PERSHING RIFLES

The Pershing Rifles, established in 1894 by General John J. Pershing, is a national honorary military society of 131 companies and 5,000 members. It was organized to provide a fraternal organization for those cadets interested in excelling in military science by attaining a high standard of precision and efficiency. Company B, 8th Regiment at Cornell, has a drill team which competes with other colleges and universities throughout the United States. Membership is selected from ROTC cadets of all three services.

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, promote American citizenship, create a close and more efficient relationship among the Air Force Reserve Officers' Training Corp 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—MEN'S NAVAL HONORARY SOCIETY

The Narmid Society is an honorary society for members of the NROTC junior and senior classes who have participated in at least one training cruise and stand at the top of their class in aptitude for the service. The purpose of the organization is to increase morale of the NROTC Unit by example and selectivity, to give members a broader view of military service through a social program consisting of informal contact with officers and enlisted personnel, and to pass on experience in such a way as to best benefit other midshipmen. A primary mission of Narmid is to serve the NROTC Unit.

ARMY ROTC BAND

The Army ROTC Band furnishes music for drills, parades, and honor guards. Any musically qualified cadet is entitled to try out for the band.

NROTC DRUM AND BUGLE CORPS

The NROTC Drum and Bugle Corps furnishes music for various drills and parades. Any qualified midshipman is eligible to join this Corps.

SEMPER FIDELIS SOCIETY (MARINE CORPS HONORARY SOCIETY)

Those eligible for membership in the Semper Fidelis Society 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 receipt and the dissemination of policies, doctrines, and other vital information pertinent to a better understanding of their future 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 its members.

SERVICE ROTC PROGRAMS IN BRIEF, 1963-1964

(See pages 8 to 22 for details.)

	ARMY (GENERAL MILITARY SCIENCE)	NAVY (INCLUDING MARINE CORPS)	AIR FORCE
ENROLLMENT	September of freshman year. Students in 5-year academic programs may defer enrollment until September of sophomore year if desired. Completion of basic course (first two years) is prerequisite to enrollment in advanced course (last two years). Previous ROTC or military service may be credited against basic course.	Contract program: September of freshman year. Enrollment is normally for the full four-year course, but Contract students may withdraw voluntarily from the program at any time during freshman or sophomore year. The Contract program is an integrated four-year curriculum. Regular program: Selection through nation-wide competition during last year of secondary school or after graduation therefrom. Regular students may not normally withdraw from the program after one year. <i>Note:</i> Contract students may not select certain undergraduate fields of study such as: pre dental, pre medical, preveterinary, dentistry, medicine, theology, veterinary medicine, pharmacy, music, art, anthropology, or religion. Regular students may not select the above, plus hotel administration.	September of freshman year. Students in 5-year academic programs may defer enrollment until September of sophomore year if desired. Completion of basic course (first two years) is prerequisite to enrollment in advanced course (last two years). Previous ROTC or military service may be credited against basic course.
FRESHMAN YEAR	Military Science 11. Fall term. Introduction to Army organization, individual weapons and marksmanship; ldr. lab.* Military Science 12. Spring term. U.S. Army and National Security; ldr. lab. Freshman students must successfully complete, each term, an academic course outside the military department of not less than one hour credit in one of the general academic areas shown below for juniors or seniors.	Six credit hours in Naval Science (Naval Orientation and Sea Power) <i>Note:</i> Regular students must complete one year of college mathematics and one year of college physics by the end of their sophomore year. Contract students who have not taken mathematics through trigonometry in secondary school must take one semester of mathematics by the end of the sophomore year.	Air Science 1A. Fall term. Foundations of Aerospace Power. Air Science 1B. Spring term. University course selected from the general areas of mathematics, physics, chemistry, economics, modern foreign languages, or public speaking. Ldr. lab. Both terms.
SOPHOMORE YEAR	Military Science 21. Fall term. American military history and ldr. lab. Military Science 22. Spring term. Map reading, small unit tactics; ldr. lab.	Three credit hours in Naval Science (naval weapons). Three credit hours in psychology or selected courses approved by the professor of Naval Science.	Air Science 2A. Fall term. University course selected from the general areas of mathematics, physics, chemistry, economics, modern foreign languages, or public speaking. Air Science 2B. Spring term. Fundamentals of Aerospace Systems. Ldr. lab. Both terms.
JUNIOR AND SENIOR YEARS	Advanced course. Selection for the advanced course is dependent on successful completion of the basic course, results of survey and screening tests, and board action. Cadets selected for the advanced course must agree to complete it. Military Science 30, 30A, and 30B. Military teaching, branches of the Army, small unit tactics, communications, and ldr. lab. Military Science 40, 40A, and 40B. Organization and operations of larger units, atomic weapons, Army administration, military justice, service orientation, and ldr. lab.	Six credit hours of Naval Science (navigation and naval operations)—junior year. Six credit hours of Naval Science (naval engineering and naval leadership)—senior year. At the beginning of the junior year students elect one of two options (Navy or Marine Corps) and take the appropriate junior and senior NROTC courses. Students may not normally withdraw from the Naval ROTC during the junior and senior years.	JUNIOR YEAR: Air Science 3A. Fall term. The Air Force staff officer, the military justice system, and preparation for summer camp. Air Science 3B. Spring term. One University course from each of the following two groups. Group I: Psychology 101, Hotel Administration 114, or Rural Education 10; Group II: Business and Public Administration 101 or 500, Hotel Administration 119 and 217, Industrial and Labor Relations 220, 320, 323, 420, 423, or 450. Ldr. Lab. Both terms.

	<p>three-hour courses in any of the following general academic areas: effective communication, science comprehension, general psychology, and political development or political institutions.</p>		<p><i>Air Science 1A.</i> Fall term. One University course from each of the following two groups. Group III: Astronomy 305; Group IV: Government 333, 338, 342, 344, 347, 372, 377, or 381. <i>Air Science 1B.</i> Spring term. Military aspects of world political geography, and the Air Force officer, preparation for active duty. Ldr. lab. Both terms.</p>
SUMMER TRAINING	<p>One six-week camp. Normally between junior and senior years.</p>	<p>Contract: One six-week practice cruise, normally between junior and senior years. Regular: Three summer cruises of four to six weeks each. Marine Corps option: Training at a Marine Corps base in lieu of cruise in summer after junior years.</p>	<p>One four-week camp, normally between Junior and Senior Year.</p>
UNIFORMS, BOOKS, AND PAY	<p>Uniforms, books, and other materials for ROTC courses are furnished. Juniors and seniors receive a monthly allowance of about \$27. Uniforms, meals, quarters, and pay at a rate of \$78 a month are provided during the summer camp in addition to travel pay to and from camp.</p>	<p>Contract: Uniforms, books, and other materials for NROTC courses are furnished. Juniors and seniors receive monthly allowance of about \$27 except during summer cruise, for which they receive active duty pay. Travel allowance provided at beginning and end of cruise. Regular: Uniforms, books, and supplies for all courses, pay of \$50 per month except on cruises, tuition charges, and other fees throughout program are furnished. Travel allowance at beginning and end of summer cruises, and pay during cruises at active duty rate.</p>	<p>Uniforms, books, and other material for ROTC courses are furnished. An officer's uniform is issued to each student when he enters the advanced course and becomes his when he has successfully completed the program. Advanced course students receive a total of about \$535 pay during junior and senior years, plus a rate of \$78 per month during summer camp. Travel allowance provided to and from camp.</p>
COMMISSION AND LENGTH OF SERVICE	<p>On graduation commissioned as Second Lieutenant, U.S. Army Reserve. Cadets selected as Distinguished Military Graduates are offered Regular Army commissions. Reserve officers serve two years on active duty, two years in the Ready Reserve, and two years in the Standby Reserve. Six-month tours of duty are also authorized dependent upon national needs; during the past year, no six-month tours were authorized for ROTC graduates. Active duty may be delayed for students pursuing full-time graduate studies in professional, scientific, or technical fields in which the Department of Army has a primary interest. Branch assignments are based on the recommendations of a faculty board and the needs of the Army.</p>	<p>Contract: On graduation, commissioned as Ensign, Naval Reserve, with expectation of three years' active duty, and three years inactive duty in Ready Reserve; total six years. May request permission to delay required active duty in order to pursue graduate study at own expense, leading to Master's degree in engineering, chemistry, physics, mathematics, or some subdivision of these fields. Will be commissioned on time but will not go on active duty until completion of work for Master's degree. Period of required active duty will not be affected. Students commissioned as Second Lieutenants, Marine Corps Reserve, can expect to retain these commissions for a total of six years, including three years of active duty. Regular: On graduation, commission as Ensign, Navy, or Second Lieutenant, Marine Corps, with four years minimum active duty.</p>	<p>On graduation, appointment as Second Lieutenant, Air Force Reserve; four years' active duty and two years on the reserve list. (For the flying officer, five years' active and one year reserve.) The graduate may elect to begin service at any time within twelve months after receiving commission. Active duty may be delayed while undertaking graduate studies leading to advanced degrees.</p>
FLIGHT PROGRAMS	<p>For selected seniors in addition to other studies. All expenses borne by the U.S. Army. Qualifies student for FAA private pilot's license. Must agree to three years' active duty, part of which may be additional flight training in Army aviation.</p>	<p>Midshipman who are in all respects physically and mentally qualified for Aviation Flight Training and request such training, may participate in the senior year in the Flight Indoctrination Program provided at no cost to the student. Successful midshipmen are qualified to apply for private pilot license to the Federal Aviation Authority. When commissioned, these officers will be ordered to Aviation Flight Training.</p>	<p>In the senior year, cadets enrolled as prospective pilots will participate in the flight instruction program provided at no cost to the student. Successful cadets are qualified to apply for private pilot license to the Federal Aviation Authority.</p>
DRAFT DEFERMENT	<p>During freshman and sophomore years qualified students may receive draft deferments upon signing an agreement to continue in the advanced course and to accept a commission if offered. All students in the advanced course are deferred.</p>	<p>All students in the Navy ROTC programs are deferred upon enrollment and signing of draft deferment agreement.</p>	<p>During freshman and sophomore years, qualified students may obtain draft deferments upon signing an agreement to continue in ROTC program until graduation if selected for the advanced course, and to accept a commission if offered. All students in the advanced course are eligible for deferment.</p>

* Leadership laboratory.

THE UNITED STATES ARMY

ROTC PROGRAM

THE COMPLEXITY of the missile-armed, mechanized, and airborne Army has generated a need for highly educated officer leaders. The Cornell Army Reserve Officers Training Corps has provided officers of high caliber to the United States Army since 1921. In 1955 the general military science curriculum was established. It leads to commissions as Second Lieutenants in the Army Reserve and the Regular Army upon graduation from Cornell.

THE COURSE OF INSTRUCTION

The course in military science is a four-year, elective course, which is pursued concurrently with the student's regular collegiate studies; thus the student is able to earn a commission as an officer at the time he receives his academic degree. Uniforms, texts, equipment, and instruction are provided at no charge to the student.

The course is divided into two parts: the basic course, which is covered in freshman and sophomore years, and the advanced course taken during junior and senior years. In the basic course the Army ROTC cadet learns the military subjects that are the foundation of an officer's military knowledge, such as American military history, military policy and problems of the United States, evolution of the military art, individual weapons and marksmanship, map and aerial photograph reading, and individual and small unit tactics. In addition, he studies the organization of the ROTC and the Army, and the U.S. Army and national security, subjects which give the student an insight into the problems of national defense in the atomic age.

During the basic course, the freshman cadet studies military science subjects for one hour a week in a morning class while the sophomore devotes two hours of classroom time to these subjects. All basic cadets spend an additional hour in an afternoon leadership laboratory developing skill in the execution of military drill and at the same time gain an appreciation of the problems of leadership involved in handling groups of men.

Cadets who are proficient in their military studies and who have shown qualities of military leadership may continue to the advanced course. They are required, however, to sign an agreement to complete the program and to attend a six-week summer camp between the junior and senior years. Students in the advanced course receive an allowance of approximately \$27 a month in lieu of subsistence. While at summer camp the cadet is furnished uniforms, medical attention, food, lodging, transportation to and from camp, and pay at the rate of \$78 a month. The total money a cadet receives during the advanced course is approximately \$625. When he goes on active duty as an officer in the Army Reserve, the graduate receives an allowance of \$300 for uniforms and equipment.

In the junior year studies in the advanced course include, during one semester, three hours a week of classroom discussions and practical work in leadership, military teaching methods, and small unit tactics. In the other semester the cadet chooses a University course of three credit hours from one of the following four broad fields: effective communication, general psychology, political development or political institutions, and science comprehension, which will be of value to him both as a commissioned officer and as an educated man. Throughout the year the cadet devotes two hours, one afternoon a week, to practical work in leadership, drill, and the exercise of command through instructing and commanding his fellow cadets. This instruction is progressive, and promotions in the cadet regiment are made on the basis of demonstrated performance as leaders. Each cadet is given opportunities to develop his leadership through rotation of command positions.

At the six-week summer camp, theory learned on the campus is put into practice. The camp for Cornell ROTC cadets is held at Fort Devens, Massachusetts. The reservation provides ample firing ranges and maneuver areas for practical work with all kinds of weapons and for small unit tactical exercises. Moreover, the cadets witness various demonstrations by the regular troops of all arms and services. In addition to becoming familiar with military life in camp and in the field, the cadets become acquainted with ROTC students from colleges located throughout New England and New York State, who are attending the ROTC camp. Athletic, social, and recreational facilities of all kinds, including dances, are available to the cadets at minimal or no cost.

Upon their return to the campus, seniors become officers in the cadet regiment, and, with the background of their summer camp experience, plan and conduct drills, ceremonies, and military exercises. As in the junior year, cadets attend ROTC classes three mornings a week during one semester, studying battle group operations, command and staff relationships, military justice, Army administration, logistics, and the role of the United States in world affairs. During the other semester, the senior takes a University course from one of the four general areas mentioned in the description of the junior year curriculum.

Graduates are commissioned in one of the branches of the Army and are ordered to active duty. Their first duty assignment is attendance at a basic officer's school for several months, where the new officer learns the techniques of his assigned branch of the Army.

GENERAL REQUIREMENTS

BASIC COURSE (MS I AND II)

To be enrolled in the basic course the student must:

- Be a citizen of the United States.
- Be physically qualified under standards prescribed.
- Be not less than 14 years of age at enrollment.
- Be regularly enrolled in the institution.

Veterans of the Armed Forces of the United States may receive the following credit, subject to the approval of the professor of military science:

One years' active duty—credit for basic course.

Six months' active duty or active duty for training—credit for MS I.

10 MILITARY TRAINING AT CORNELL

Students entering college with ROTC credit from secondary or military schools (Junior Division ROTC) will receive appropriate credit for military instruction completed.

Foreign students and those not fully qualified may elect the course at no expense to the government, subject to approval of the professor of military science.

ADVANCED COURSE (MS III AND MS IV)

Cadets electing the advanced course must:

Have successfully completed the two-year basic course or its equivalent. Be able to qualify for appointment as a Second Lieutenant prior to reaching 28 years of age.

Successfully pass such survey, physical, and screening tests as may be prescribed.

Be selected by the professor of military science.

Have at least two years' academic work remaining at this institution or be entitled to curtailment of the advanced course under existing regulations.

Execute a written contract with the United States Government to complete the advanced course, to accept a commission as an officer, if tendered, and to serve on active duty within one year of graduation. (Under certain circumstances, commencement of active duty may be postponed.) While pursuing the advanced course students are deferred from induction.

UNITED STATES ARMY RESERVE

Upon successful completion of the Army ROTC course, the student, unless commissioned in the regular Army, is appointed a Second Lieutenant, United States Army Reserve, in one of the branches of the Army, such as Infantry, Artillery, Armor, Corps of Engineers, Ordnance Corps, Quartermaster Corps, and others. Although the needs of the Army must govern, he is allowed to express his preference for the branch of the Army in which he wishes to serve.

ROTC graduates commissioned in the United States Army Reserve will be ordered to active duty within one calendar year of graduation. During the period 1961-1962, all ROTC graduates were ordered to two-year tours of active duty for training. Assignments to tours of active duty and dates of call thereto are governed by the needs of the Army.

ROTC FLIGHT TRAINING PROGRAM

The ROTC flight training program was established as a college program to train future Army aviators. The new program affords an opportunity for selected senior cadets to become proficient in the fundamentals of flying and to qualify for a Federal Aviation Agency private pilot's license.

Each cadet will receive 35 hours of ground instruction and 35 hours of flying instruction. After successful completion of his Cornell training program, each cadet will go on active duty as an Army Second Lieutenant and will attend the Army Aviation Training Course at Fort Rucker, Alabama.

Upon graduation from the Army's flying school, he will be a qualified pilot of Army aircraft or helicopters, a rapidly expanding form of air transport.

Branch recommendations for cadets who are accepted for ROTC flight training must be in one of the following: Armor, Artillery, Corps of Engineers, Infantry, Medical Service Corps, Signal Corps, or Transportation Corps.

The training received in the flight program costs the government over \$500. The cadet pays nothing for this instruction.

THE CADET CORPS

Army ROTC cadets are organized into a cadet regiment for drills and ceremonies. The regiment is commanded by a Cadet Colonel. The regiment, with other Cornell military organizations, takes part in observances of Veterans' Day, Armed Forces Day, and other national and local occasions.

Prizes and awards are presented at the annual Presidential Review to cadets who have demonstrated outstanding ability in military theory or leadership.

DISTINGUISHED MILITARY STUDENTS

A number of appointments as Second Lieutenants in the Regular Army are tendered annually to ROTC graduates who have demonstrated above average 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 a Regular Army commission enter the Army upon the same basis as graduates of the United States Military Academy at West Point.

CURRICULUM AND SCHEDULE OF CLASSES

11. **BASIC ARMY ROTC.** Fall term. Credit 1 hour. M 9, 11; T 8, 10; W 9, 11, Th 10, 12; and leadership laboratory T W or Th 2. Examinations to be announced.

One hour a week of classroom discussion and practical exercises, where appropriate, covering the organization of the Army and ROTC and individual weapons and marksmanship; plus one hour in a leadership laboratory covering the school of the soldier and exercise of command. See academic subjects requirement below.

12. **BASIC ARMY ROTC.** Spring term. Credit 1 hour. M 9; T 8, 10; W 9, 11, or Th 12 and leadership laboratory, T W or Th 2. Examinations to be announced.

One hour a week of classroom studies on the United States Army and national security; plus one hour in a leadership laboratory covering the school of the soldier and exercise of command.

21. **BASIC ARMY ROTC.** Fall term. Credit 2 hours. M W 8, 10, or 12; or T Th 9 or 11; and leadership laboratory, T W or Th 2. Examinations to be announced.

Two hours a week of classroom discussion and case studies in American military history; plus one hour a week in a leadership laboratory covering the school of the soldier and exercise of command.

22. **BASIC ARMY ROTC.** Spring term. Credit 2 hours. M W 8, 10, or 12; or T Th 9 or 11; and leadership laboratory, T W or Th 2. Examinations to be announced.

Two hours a week of classroom discussion and practical exercises in map and aerial photograph reading and basic small unit tactics; plus one hour in a leadership laboratory covering the school of the soldier and exercise of command.

30. **ADVANCED ARMY ROTC.** Spring term only. Credit 3 hours. M W F 8, 10 or 12; or T Th S 9 or 11. The student must also satisfactorily complete leadership laboratory courses 30A and 30B. See academic subject requirements below.

Three hours a week of classroom discussion and practical work in infantry platoon and company tactics, communications, and branches of the Army.

30A. **ADVANCED ARMY ROTC,** leadership laboratory. Fall term only. T W or Th 2 and 3.

One hour a week of classroom discussions and practical work in the principles of leadership and military teaching; plus an additional hour on school of the soldier and exercise of command.

30B. **ADVANCED ARMY ROTC,** leadership laboratory. Spring term only. T W Th 2 and 3.

One hour a week of classroom discussion and practical work in military teaching; plus an additional hour on school of the soldier and exercise of command.

40. **ADVANCED ARMY ROTC.** Fall term only. Credit 3 hours. M W F 8, 10 or 12; or T Th S 9 or 11. The student must also satisfactorily complete leadership laboratory Courses 40A and 40B. See academic subject requirements below.

Three hours a week of classroom discussion and practical work in battle group operations, atomic weapons, command and staff relationships, estimate of the situation, and military justice.

40A. **ADVANCED ARMY ROTC,** leadership laboratory. Fall term only. T W or Th 2 and 3.

One hour a week of classroom discussion and practical work in Army administration; plus an additional hour on the school of the soldier and exercise of command.

40B. **ADVANCED ARMY ROTC,** leadership laboratory. Spring term only. T W or Th 2 and 3.

One hour a week of classroom discussion and practical work on the role of the United States in world affairs; plus an additional hour on the school of the soldier and exercise of command.

ARMY ROTC ACADEMIC SUBJECT REQUIREMENTS

Freshman basic course students must successfully complete an elective course outside the military science department of not less than one credit hour each term. The elective subject may be one that is required in the student's normal academic curriculum, if it falls within the authorized academic areas shown below for advanced course students.

Advanced military students must successfully complete two elective subjects outside the Military Science Department to meet commissioning requirements.

The electives must be for three credit hours, one elective taken during the junior year and one during the senior year. The electives must be chosen from the following academic areas:

- a. Effective communication
- b. Science comprehension
- c. General psychology
- d. Political development or political institutions.

In the event that a particular subject was required in the student's normal academic curriculum during his freshman and sophomore years, electives must be selected either from another general area or an advanced subject in the same area. However, if the subject selected was not required during his freshman and sophomore years, complete freedom of selection from within the four academic areas is permissible.

The professor of military science will approve elective subjects selected. Consideration will be given to the value of the subject in furthering the professional qualifications of the student as a prospective commissioned officer in the Army.

THE UNITED STATES NAVAL ROTC PROGRAM

THE MISSION of the Naval ROTC is to provide, by a permanent system of training and instruction in essential naval subjects at civil educational institutions, a source from which qualified officers may be obtained for the Navy and the Marine Corps, and the Naval Reserve and the Marine Corps Reserve.

The Department of Naval Science at Cornell offers a four-year course in Navy and Marine Corps subjects which can be integrated into almost any major field of academic study leading to a baccalaureate degree except the following: medicine, premedical, dentistry, pre-dental, veterinary medicine, preveterinary, theology, pretheological, pharmacy, music, and art.

Graduates are required to accept a commission in the Navy or Marine Corps and to report for a period of obligated active service immediately on attainment of the baccalaureate degree. Graduates may request delay in active naval service to pursue graduate study at own expense, leading to a Master's Degree in engineering, chemistry, physics, mathematics, or some sub-division of these fields.

REGULAR AND CONTRACT PROGRAMS

In order to register for Naval Science courses, the student must enroll in the Naval ROTC Unit (Department of Naval Science) as a Regular NROTC student or as a Contract NROTC student.

Regular NROTC Students are selected annually by state selection committees on the basis of a nationwide competitive examination held in December of each year for students entering college the following year. The Regular NROTC program is a NAVY subsidized program for young men motivated to a naval career.

Contract NROTC students are selected on the campus by the Professor of Naval Science, Cornell University. A quota of about 100 contract students will be selected during Freshman Orientation Week and are enrolled as civilians by execution of a contract with the Navy. The Contract program is selective. All freshmen interested in the Contract NROTC Program should visit the NROTC headquarters during Freshman Orientation Week for application and interview.

Contract students receive free naval science textbooks and course materials, uniforms and a subsistence allowance of about \$27.00 per month during the last two years of the program. One summer training cruise of about six weeks' duration following the third year of naval science provides an opportunity for sea experience aboard a U.S. Navy warship and probable visits to foreign ports.

DRAFT DEFERMENT

Upon acceptance into the NROTC Program, the student is placed in a draft-deferred status as an officer candidate until graduation. However, should the

student be disenrolled from the program, his draft board will be notified of his change of status.

GENERAL CURRICULUM

Students enrolled as Contract or Regular NROTC students 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 the second year a student may elect the Marine Corps curriculum for the third and fourth years and, if selected, will receive his commission in the Marine Corps. These courses are indicated by the M in the curriculum and Schedule of Classes (301M, 302M, 401M, and 402M).

The curriculum requires attendance at three one-hour classes and one two-hour laboratory session each week.

Some of the schools and colleges at Cornell (Architecture, Hotel Administration) give full credit toward a degree for Naval Science courses. All schools and colleges give some credit for Naval Science courses.

REQUIREMENTS

An applicant for the Naval ROTC Program 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 July 1 of the entering year. If he matriculates in a major field of study requiring five years for a first baccalureate degree, he must not have passed his twentieth birthday on July 1 of the entering year. Students enrolled in a five-year program will be placed in a leave status with respect to the Department of Naval Science (draft deferment continues) during the third year.

Naval ROTC students must be unmarried until commissioned.

Physical requirements are the same as those of the U.S. Naval Academy at Annapolis, Maryland. A waiver for 20/40 eye sight, correctable to 20/20 with glasses, may be given to highly qualified applicants for the Contract Program. Applicants must have normal color perception.

NROTC FLIGHT INDOCTRINATION PROGRAM

The NROTC Flight Indoctrination Program is available at no cost to senior NROTC students motivated to naval aviation. This selective program affords an opportunity to become proficient in the fundamentals of aviation and to qualify for a private pilot's license through the Federal Aviation Agency.

The program provides 35 hours of ground instruction and 35 hours of flying instruction. Upon commissioning, the graduate is ordered to Naval Aviation Training at Pensacola, Florida.

DUTY ASSIGNMENTS

The student, upon graduation and meeting the physical requirements, will be commissioned as an Ensign, U.S. Navy (Regular students); Ensign, U.S. Naval Reserve (Contract students); Second Lieutenant, U.S. Marine Corps (Regular Marine Corps students); or Second Lieutenant, U.S. Marine Corps Reserve (Contract Marine Corps students).

Graduates commissioned Ensign, U.S. Navy or U.S. Naval Reserve, are ordered to sea duty or shore duty as the needs of the Navy 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 duty of his preference. Choices of duty include: aviation, submarines, large and small surface ships, and nuclear power training. Graduate study is available after the initial tour of duty. Graduates commissioned Ensign, U.S. Navy, are required to serve a minimum period of active duty of four years; those commissioned Ensign, U.S. Naval Reserve, are required to serve three years of active duty and three years of inactive duty in the ready reserve.

Graduates commissioned in the U.S. Marine Corps and U.S. Marine Corps Reserve are ordered to a seven months' basic course at Quantico, Virginia. Upon completion of the basic course, each officer has the opportunity to request his preferred type of duty. Active duty requirements for Marine Corps officers commence on completion of the basic course; Second Lieutenants, U.S. Marine Corps, serve a minimum period of four years on active duty, Second Lieutenants, U.S. Marine Corps Reserve, serve three years on active duty and three years in a ready reserve status.

CURRICULUM AND SCHEDULE OF CLASSES

101. **SEAPOWER AND ORIENTATION.** Fall term. Credit 3 hours. Lecture-recitation, M W F 9 or 11; T Th S 9 or 11. Laboratory, W or Th 2-4.

A study of the organization of the Department of Defense, the customs and the traditions of the Navy, and naval leadership; basic seamanship, and the various types of naval forces; introduction to factors contained in the analysis of seapower. Required of all first-term Naval ROTC students.

102. **SEAPOWER AND ORIENTATION.** Spring term. Credit 3 hours. Lecture-recitation, M W F 9 or 11; T Th S 9 or 11. Laboratory, W or Th 2-4.

Continuation of study in the analysis of seapower. A study of seapower's influence upon global history. The future employment of seapower. Basic shiphandling. Required of all second-term Naval ROTC students.

201. **NAVAL WEAPONS SYSTEMS.** Fall term. Credit 3 hours. Lecture-recitation, M W F 9, or 11; T Th S 10. Laboratory, W or Th 2-4. A study of naval weapons systems. Emphasis is placed on the guided missile, its applications, propulsion, and control. Required of all third term Naval ROTC students.

202. **PSYCHOLOGY OR PERSONNEL MANAGEMENT.** Spring term. This course may be taken any time before Naval Science 402 is taken, but the fourth-term Naval ROTC student will be required to attend Naval Science Laboratory, W or Th 2-4. This will be any one of several three-credit-hour courses offered by Cornell and taught by a civilian faculty member, which will prepare the student for Naval Science 402. Choice of the course is subject to agreement between the school or college and the Department of Naval Science.

301. **NAVIGATION.** Fall term. Credit 3 hours. Lecture-recitation, M W F 9 or 11; T Th S 9. Laboratory, W or Th 2-4.

The theory and technique of celestial and terrestrial navigation, dead reckoning, piloting, and use of navigational instruments. Required of all fifth-term Naval ROTC students except Marine Corps candidates.

301M. **EVOLUTION OF THE ART OF WAR.** Fall term. Credit 3 hours. Lecture-recitation, M W F 8 or 10. Laboratory, W or Th 2-4.

The historical development of weapons, tactics, and materials; the classic principles of war illustrated by a study of selected battles and campaigns. Required of all fifth-term Naval ROTC students who are candidates for Marine Corps commissions.

302. **NAVAL OPERATIONS.** Spring term. Credit 3 hours. Lecture-recitation, M W F 9 or 11; T Th S 9. Laboratory, W or Th 2-4.

A study of shipboard operations, including maneuvering board, tactical communications and instructions, rules of the nautical road, and the operational importance of weather and fleet communications. Required of all sixth-term Naval ROTC students except Marine Corps candidates.

302M. **MODERN BASIC STRATEGY AND TACTICS.** Spring term. Credit 3 hours. Lecture-recitation, M W F 8 or 10. Laboratory, W or Th 2-4.

A survey of modern strategic and tactical principles, using contemporary historical events as illustrative material. Required of all sixth-term Naval ROTC students who are candidates for Marine Corps commissions.

401. **NAVAL ENGINEERING.** Fall term. Credit 3 hours. Lecture-recitation, M W F 9 or 10; T Th S 9. Laboratory, W or Th 2-4.

A study of the different types of naval engineering propulsion plants including nuclear plants, principles of thermodynamics and heat transfer. Required of all seventh-term Naval ROTC students except mechanical engineering candidates (who are permitted to substitute certain heat power courses) and Marine Corps candidates.

401M. **AMPHIBIOUS WARFARE, PART I.** Fall term. Credit 3 hours. Lecture-recitation, M W F 8 or 10. Laboratory, W or Th 2-4.

A detailed study of the technique and history of amphibious warfare. Required of all seventh-term Naval ROTC students who are candidates for Marine Corps commissions.

402. **PRINCIPLES AND PROBLEMS OF NAVAL LEADERSHIP.** Spring term. Credit 3 hours. Lecture-recitation, M W F 9 or 10; T Th S 9. Laboratory, W or Th 2-4.

The application of principles of psychology to leadership and the principles of management and management techniques. Required of all eighth-term Naval ROTC students except Marine Corps candidates.

402M. **AMPHIBIOUS WARFARE, PART II: LEADERSHIP AND NAVAL JUSTICE.** Spring term. Credit 3 hours. Lecture-recitation, M W F 8 or 10. Laboratory, W or Th 2-4.

A continued study of the techniques of amphibious warfare; the procedures for and the responsibility of an officer in the administration of naval justice; the psychology of leadership. Required of all eighth-term Naval ROTC students who are candidates for Marine Corps commissions.

THE UNITED STATES AIR FORCE ROTC PROGRAM

THE MISSION of the Air Force ROTC is to develop in selected college students those qualities of leadership and other attributes essential to their progressive advancement to positions of increasing responsibility as commissioned officers in the United States Air Force.

The Department of Air Science at Cornell provides basic and advanced study in Air Science subjects. Courses of study are designed to prepare the basic student for his role as an informed citizen, and to develop the advanced cadet into a well-rounded Air Force officer possessing a high growth potential.

In order to be commissioned in the United States Air Force upon graduation, a student must first successfully complete a basic course of two years' duration (first 4 semesters). He can then apply for the advanced course. Subject to academic and physical standards, he can be accepted as an advanced AFROTC cadet and continue his studies toward a commission during his junior and senior years.

THE BASIC COURSE

The basic course requirements are divided between professional AFROTC subjects and approved University courses, plus one hour weekly in the leadership laboratory. During the first semester of the freshman year the cadet attends AFROTC classes two hours per week and studies the foundations of aerospace power and the Department of Defense.

University courses make up the classroom phase of AFROTC instruction during the second semester of the freshman year and the first semester of the sophomore year. AFROTC academic requirements for those two terms are met by the student satisfactorily completing two University courses (minimum 3 hours each) selected from the general areas of mathematics, physics, chemistry, economics, modern foreign languages, or public speaking.

During the second semester of his sophomore year the cadet studies the fundamentals of aerospace weapon systems.

In the leadership laboratory (1 hour per week throughout the course), the cadet gains experience in actual leadership situations, and learns the fundamentals of military drill and ceremonies, wearing of the uniform, military courtesy and discipline, and military organization.

Textbooks and uniforms are furnished, the latter subject to a returnable deposit of \$30.

THE ADVANCED COURSE

Each cadet accepted in the Air Force advanced program signs an agreement to continue in the advanced program and accept a commission in the Air Force

upon earning his degree, providing a commission is offered. While pursuing the advanced course he receives an allowance of about \$27 a month.

Advanced course requirements are more specialized than for the basic course. During the first semester of the junior year, the cadet attends class four hours each week. He receives instruction on the mission of the Air Force, military administration, problems of Air Force leadership, military justice, and preparation for summer camp.

During the second semester of the junior year and the first semester of the senior year, the cadet takes approved University courses in psychology, human relations, meteorology, astronomy, and international relations. These courses may also be used for college elective credit.

In the final semester of the senior year, the cadet returns to the Air Science classroom to study the military aspects of world political geography and to complete preparation for commissioned service.

The leadership laboratory is conducted for one, two-hour period each week for all advanced cadets. The advanced cadets plan, organize, and supervise all activities in the Cadet Group, thus participating first hand in the specific duties, functions, and responsibilities of Air Force commanders, and practicing leadership in a dynamic situation.

Each advanced cadet attends a four-week summer camp at an Air Force base, preferably between his junior and senior years. While at camp the cadet is furnished uniforms, medical attention, food, lodging, transportation to and from camp, and pay at the rate of \$78 a month.

All cadets in the advanced program are classified in relation to their special college training. Types of duty available to advanced course applicants are as follows:

Category I: Pilot or navigator

Category II: Engineering (civil, mechanical, electrical, etc.) or scientific (chemistry, physics, mathematics, etc.)

Category III: other (administrative, logistical, etc.)

A B.S. degree in a branch of engineering or science is required for commissioning in Category II; a college degree in other fields is sufficient for commissioning in Categories I and III.

Length of service for pilots and navigators is five years on active duty and one year in the reserve; for all others—four years on active duty and two years in the reserve. In most cases, active duty tours can be deferred temporarily to permit students to obtain advanced degrees.

Individuals interested in careers with the United States Air Force will have opportunity during the active duty period to compete for Regular Air Force status. Those cadets who are designated as Distinguished Air Force ROTC Cadets in the senior year may receive commissions in the Regular Air Force upon reporting for active duty. All others who complete the four-year Air Force ROTC program will serve as Second Lieutenants in the Air Force Reserve.

THE CURRICULUM

The present Air Force ROTC curriculum was developed for the Air Force by Ohio State University. Its most important feature is the integration of University-taught courses with those taught by Air Force officer instructors. The Air Force no

longer attempts to teach in those areas where suitable college courses exist. This results in a reduction of student workloads and insures that the students receive instruction from recognized experts in the various fields, civilian or military.

FLIGHT INSTRUCTION

In the senior year, those cadets enrolled as prospective pilots participate in the Flight Instruction Program, which is provided at no cost to the students. Upon completion of this flying program, involving instruction in light aircraft at a local airport, a cadet may apply for a private pilot license as issued by the Federal Aviation Agency.

SCHEDULE OF CLASSES

BASIC COURSES

1A. **BASIC AIR FORCE ROTC.** Fall term. Credit two hours. Hours: M W 9, 11 or 12; T Th 9, 11 or 12 and in addition, W or Th 3.

Two classroom hours a week covering an introductory examination of the factors of aerospace power, major ideological conflicts, requirements for military forces in being, responsibilities of citizenship, development and traditions of the military profession, role and attributes of the professional officer in American democracy, organization of the armed forces as factors in the preservation of national security, and the United States Air Force as a major factor in the security of the free world.

Additionally, one hour per week of basic military leadership training.

1B. **BASIC AIR FORCE ROTC.** Spring term. Prerequisite, Basic Air Force ROTC 1A. See Basic Course Substitution Plan which follows, and in addition one hour per week of basic military leadership training, W or Th 3.

2A. **BASIC AIR FORCE ROTC.** Fall term. Prerequisites, Basic Air Force ROTC 1A and 1B. See Basic Course Substitution Plan which follows, and in addition, one hour per week of basic military leadership training, W or Th 3.

2B. **BASIC AIR FORCE ROTC.** Spring term. Credit two hours. Prerequisite, Basic Air Force ROTC 2A. Hours M W 9, 11 or 12; T Th 9, 11 or 12; and in addition, W or Th 3.

Two classroom hours a week, providing an introductory survey of aerospace missiles and craft, and their propulsion and guidance systems; target intelligence and electronic warfare; nuclear, chemical, and biological warhead agents; defensive, strategic, and tactical operations; problems, mechanics, and military implications of space operations; and a survey of contemporary military thought. Additionally, one hour per week of basic military leadership training.

COURSE SUBSTITUTION PLAN FOR BASIC AIR FORCE ROTC

University courses have been substituted for classroom instruction formerly provided by the Department of Air Science in the AS 1B and AS 2A terms. The

AFROTC academic requirements for these two terms will be met by the student satisfactorily completing two University courses (minimum 3 hours each) selected from the general areas of mathematics, physics, chemistry, economics, modern foreign languages, or public speaking.

Each substitutional course must be selected from a different general area and be completed during the same academic year as the Air Science course for which credit is claimed.

ADVANCED COURSES

3A. ADVANCED AIR FORCE ROTC. Fall term. Credit three hours. Prerequisites, Basic Air Force ROTC 1 and 2. Hours: M T W Th 8 or 10; and, in addition, W or Th 2:30 to 4:30.

Four hours a week of instruction developing knowledge and skills required of a junior officer in the Air Force. This includes staff organization and functions, communicating, instructing, problem solving, decision making and the military justice system. Included is a short block of instruction in preparation for summer camp. In addition, two hours per week are devoted to leadership practice in the Air Force leadership laboratory.

3B. ADVANCED AIR FORCE ROTC. Spring term. Prerequisite, Advanced Air Force ROTC 3A. See advanced Course Substitution Plan which follows, and in addition, two hours per week of leadership practice in the Air Force leadership laboratory. Hours: W or Th 2:30 to 4:30.

4A. ADVANCED AIR FORCE ROTC. Fall term. Prerequisites, Advanced Air Force ROTC 3A and 3B. See Advanced Course Substitution Plan which follows and in addition, two hours per week of leadership practice in the Air Force Leadership Laboratory. Hours: W or Th 2:30 to 4:30.

4B. ADVANCED AIR FORCE ROTC. Spring term. Credit three hours. Prerequisite, Advanced Air Force ROTC 4A. Hours: M T W Th 8 or 10; and in addition, W or Th 2:30 to 4:30.

Three of the four classroom hours are devoted to a study of the concepts of the military aspects of political geography; factors of power; and geographic influences upon political problems with a geopolitical analysis of the strategic areas. One hour is devoted to studies designed to help the cadet make a rapid, effective adjustment to active duty as an officer in the United States Air Force. In addition, two hours per week are spent in leadership practice.

COURSE SUBSTITUTION PLAN FOR ADVANCED AIR FORCE ROTC

Selected University courses have been substituted for the academic portions formerly prescribed during the AS 3B and AS 4A terms. Students are encouraged to integrate these substitutional courses into their programs and wherever possible utilize these courses as personal college electives.

Upon graduation, to be eligible for a commission as a Second Lieutenant in the Air Force Reserve, the student must have satisfactorily completed one option in *each* of the first three groups:

22 MILITARY TRAINING AT CORNELL

Group I.	Psychology 101	Introduction to Psychology
	Hotel Administration 114	Psychology for Hotel Administration
	Rural Education 10	Psychology
Group II.	Business & Public Administration 101	Personnel Management & Human Relations
	Business & Public Administration 500	Human Relations in Administration
	Hotel Administration (119 and 217)	Personnel Administration & Human Relations
	Industrial and Labor Relations 220	Human Relations
	Industrial and Labor Relations 320	Concepts and Cases in Human Relations
	Industrial and Labor Relations 323	Techniques and Theories of Training in Organizations
	Industrial and Labor Relations 420	Group Processes
	Industrial and Labor Relations 423	Design and Administration of Training Programs
	Industrial and Labor Relations 450	Personnel Administration in Supervision
Group III.	Government 104	Comparative Government
	Government 333	Government and Politics of the Soviet Union
	Government 338	Politics & Modernization
	Government 342	Constitutional Government in Europe
	Government 344	Governments and Politics of Southeast Asia
	Government 347	Chinese Government and Politics
	Government 372	International Relations
	Government 377	The United States and Asia
	Government 381	International Organizations
Group IV.	Astronomy 305	Navigation (Celestial) (required for pilot and navigator candidates)

At least three credit hours of University instruction in the above courses or individually authorized substitutes must be taken during any term in which a student does not receive classroom instruction in the Department of Air Science. (Reference Section 9387, Title 10 and Title 32, United States Code.)

THE FACULTY

DEANE W. MALOTT, A.B., M.B.A., LL.D., D.C.S., President of the University
(1951-1963)

JAMES A. PERKINS, A.B., Ph.D., President of the University (1963—)

THOMAS W. MACKESEY, B.Arch., M.C.P., Dean of the Faculty

DEPARTMENT OF MILITARY SCIENCE

Lt. Colonel JOSIAH B. MILLER, Artillery, U.S. Army, Professor of Military Science

ASSOCIATE PROFESSOR

Major CHARLES A. THACKER, Artillery, U.S. Army

ASSISTANT PROFESSORS

Captain DONALD E. PIKE, Armor, U.S. Army

Captain JOHN A. SHEPARDSON, Quartermaster Corps, U.S. Army

DEPARTMENT OF NAVAL SCIENCE

Captain CHESTER V. ZALEWSKI, U.S. Navy, Professor of Naval Science, and
Commanding Officer of the Naval ROTC Unit

ASSOCIATE PROFESSOR

Commander DAN J. RIENSTRA, JR., U.S. Navy

ASSISTANT PROFESSORS

Major GEORGE R. PHILLIPS, U.S. Marine Corps

Lieutenant JAMES M. PHILLIPS, U.S. Navy

Lieutenant PATRICK J. GALLAGHER, U.S. Navy

Lieutenant (Junior Grade) ROBERT G. COSTELLO, U.S. Navy

DEPARTMENT OF AIR SCIENCE

Lt. Colonel RICHARD D. SULLIVAN, U.S. Air Force, Professor of Air Science and
Commander, 520th Air Force ROTC Detachment

ASSOCIATE PROFESSOR

Major EDWARD W. LENT, U.S. Air Force

ASSISTANT PROFESSORS

Captain WAYNE E. BATES, U.S. Air Force

First Lieutenant ALEXANDER H. NEWLANDS, U.S. Air Force

STUDENT'S RESPONSIBILITY FOR FULFILLMENT OF CONTRACTS IN ROTC PROGRAM

A STUDENT may be disenrolled from an ROTC program at any time for unsatisfactory scholastic work, for disciplinary action, for physical disqualification, or for generally unsatisfactory performance, at which time any draft deferment is terminated. A student who withdraws from the University is automatically disenrolled from the ROTC program, except in the case of transfer to another institution having an ROTC program.

The Committee on Student Conduct will examine cases in which students are disenrolled from the Army, Navy, or Air Force training programs for breaking their contracts or for other instances of apparent bad faith. In clear instances of deliberate intent to avoid obligation to the armed services after the student has received substantial benefits, it is the Committee's normal policy to require the student's withdrawal from the University, with suspension and parole available as less stringent penalties.

The Committee has also requested the Admissions Office at Cornell to refrain from admitting any candidate who has been dropped by another institution for attempting to avoid his obligations to a service.

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 Air Science
Cornell University, Ithaca, New York

Dear Sir:

I would like to receive further information about:

[*check one*]

- The Army ROTC
- The Naval ROTC
- The Air Force ROTC

I understand this request does not commit me in any way.

Signature

Name (printed).....

Address

(Enter specific questions on reverse side.)