

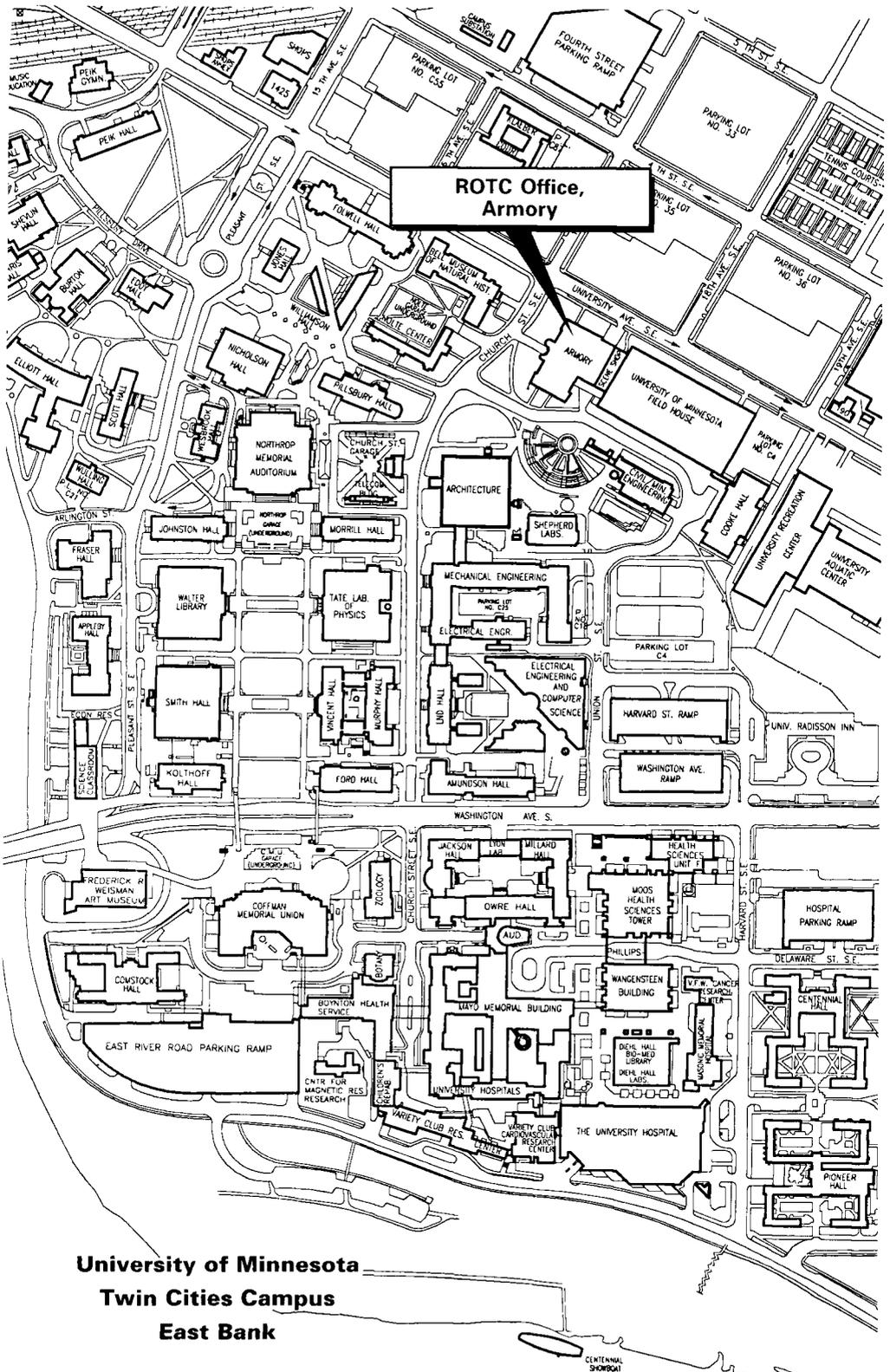
Army-Navy-Air Force ROTC

# UNIVERSITY OF MINNESOTA

BULLETIN

1993 - 1995





**ROTC Office,  
Armory**

**University of Minnesota  
Twin Cities Campus  
East Bank**

CENTENNIAL  
SHOPLAZA

# Army - Navy - Air Force ROTC

2	Policies
3	General Information
7	Military Science (Army ROTC)
11	Naval Science (Navy/Marine ROTC)
13	Aerospace Studies (Air Force ROTC)
Inside back cover	Index

# Policies

## Policies

**Bulletin Use**—This biennial bulletin, the basic source of information about Reserve Officers Training Corps (ROTC), should be kept handy for repeated reference. Separate bulletins are also published for various University colleges. Most may be obtained by contacting the Office of Admissions, 240 Williamson Hall, University of Minnesota, 231 Pillsbury Drive S.E., Minneapolis, MN 55455-0213 (612/625-2008).

The contents of this bulletin and other University bulletins, publications, or announcements are subject to change without notice. University offices can provide current information about possible changes.

**Equal Opportunity**—The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.

In adhering to this policy, the University abides by the Minnesota Human Rights Act, Minnesota Statute Ch. 363; by the Federal Civil Rights Act, 420 S.C. 20000e; by the requirements of Title IX of the Education Amendments of 1972; by Sections 503 and 504 of the Rehabilitation Act of 1973; by Executive Order 11246, as amended; by 38 U.S.C. 2012, the Vietnam Era Veterans Readjustment Assistance Act of 1972, as amended; and by other applicable statutes and regulations relating to equality of opportunity.

Inquiries regarding compliance may be directed to Patricia A. Mullen, Director, Office of Equal Opportunity and Affirmative Action, University of Minnesota, 419 Morrill Hall, 100 Church Street S.E., Minneapolis, MN 55455 (612/624-9547).

**Access to Student Educational Records**—In accordance with regents' policy on access to student records, information about a student generally may not be released to a third party without the student's permission. (Exceptions under the law include state and

federal educational and financial aid institutions.) The policy also permits students to review their educational records and to challenge the contents of those records.

Some student information—name, address, electronic (E-mail) address, telephone number, dates of enrollment and enrollment status (full time, part time, not enrolled, withdrawn and date of withdrawal), college and class, major, adviser, academic awards and honors received, and degrees earned—is considered public or directory information. Students may prevent the release of public information only during their terms of enrollment. To do so, they must notify the records office on their campus.

Students have the right to review their educational records. The regents' policy, including a directory of student records, is available for review at 150 Williamson Hall, Minneapolis, and at records offices on other campuses of the University. Questions may be directed to the Office of the Registrar, 150 Williamson Hall (612/625-5333).

**Immunization**—Students born after 1956 who take more than one University class are required under Minnesota law to submit an Immunization Record form.

The form, which is sent along with the official University admission letter, must be filled out and returned to Boynton Health Service within 45 days of the first term of enrollment in order for students to continue registering for classes at the University. Complete instructions accompany the form.

**Extracurricular Events**—No extracurricular events requiring student participation may be scheduled from the beginning of study day to the end of finals week. Exceptions to this policy may be granted by the Senate Committee on Educational Policy. The Senate advises all faculty that any exemption granted pursuant to this policy shall be honored and that students who are unable to complete course requirements during finals week shall be provided an alternative and timely opportunity to do so.

# General Information



---

# General Information

---

## History and Philosophy

The Reserve Officers Training Corps (ROTC) has an important role in the national defense framework of our nation. The American tradition of military instruction on civilian college campuses began in 1819 when a former superintendent at West Point established the American Literary, Scientific, and Military Academy, which later became Norwich University. Military instruction soon spread to other institutions—Virginia Military Institute in 1839, the University of Tennessee in 1840, and The Citadel in 1842.

In 1862 the U.S. Congress, foreseeing the dual necessities of creating additional institutions of higher learning as well as providing a means of schooling in the military arts, passed the Morrill Land Grant Act. This act provided money from the sale of government lands to establish colleges and universities and specified that courses in the military arts should be offered at these institutions.

The University of Minnesota opened its doors in 1869 through the benefits made available by the Morrill Act. One of the original nine faculty members was the University's first professor of military science, Major General Richard W. Johnson. For 70 years ROTC training at the University prepared students to enter the Army. In 1939 a Naval ROTC unit was established, and in 1949 an Air Force ROTC program began.

For more than 150 years, ROTC programs on civilian college campuses have provided intelligent, well-educated leaders for the nation's defense. In keeping with the typically American concepts of the citizen-soldier and civilian control of military forces, these programs have produced civilian-oriented military officers from all geographic and social strata whose leadership has been characterized by initiative, ingenuity, and flexibility. And because ROTC officers may return to civilian status when they have fulfilled their military obligation or choose to serve as reserve officers, ROTC programs provide leadership resources not only for national defense but also for civilian enterprise.

## Programs

At the University of Minnesota, ROTC programs are offered by the U.S. Army, Navy, and Air Force. (*Note:* The Navy program is being phased out at the University and is no longer accepting applicants. Naval science courses will be offered through spring 1994. See page 12.) ROTC coursework is completed concurrently with degree work so that participants qualify for officer commissions in one of the four military services—Army, Marines, Navy, or Air Force—as they complete requirements for a University degree. ROTC coursework offers students the opportunity to widen their perspective; sharpen their sense of responsibility; develop their ability to organize, motivate, and lead others; and acquire a maturity of judgment that can be a source of strength and self-confidence throughout their careers.

Four-year and two-year programs are available, each offering a different approach toward earning an officer's commission for students who meet selection requirements. Four-year programs consist of a Basic Course and an Advanced Course. The Basic Course is taken during the freshman and sophomore years, and the Advanced Course normally comprises the junior and senior years. Two-year programs consist of only the Advanced Course. Enrollment in an Advanced Course normally obligates students to a service commitment.

## Curricula

ROTC courses prepare students for military service as junior officers. Students learn to exercise self-discipline, organize time and effort efficiently, perform effectively under stress, analyze and react quickly and with good judgment, and consistently exhibit exemplary military bearing and appearance. Seniors are placed in positions of command, able to apply the leadership skills they have developed during their preceding years of ROTC training. Following this final year of practical experience, these men and women are well prepared to assume leadership responsibilities as commissioned officers.

The ROTC curricula are administered under the supervision of the University of Minnesota through the Departments of Military Science (Army ROTC), Naval Science (Navy/Marine ROTC), and Aerospace Studies (Air Force ROTC).

## Benefits

ROTC scholarship programs provide up to four years of subsidized education, paying all tuition costs, other instructional fees, and textbook expenses. Additionally, scholarship students receive \$100 per month for a maximum of 40 months. Nonscholarship students in their junior and senior years receive \$100 per month for a maximum of 20 months. While attending summer training, all ROTC students receive approximately \$700, including housing, travel, and subsistence allowances. Students attending summer training to qualify for a two-year program receive the same pay and allowances as ROTC students (see Scholarships).

## Obligations

Students who complete all requirements are commissioned as second lieutenants or ensigns. Upon commissioning, Naval ROTC scholarship students incur a four-year active duty service obligation; nonscholarship students incur a three-year active duty service obligation. Extended commitments to active duty are required for all pilots (eight years after qualification), naval flight officers (six years after qualification), and Nuclear Propulsion Program officers (five years after commissioning). Air Force pilot and navigator program students incur a commitment of eight and six years, respectively, after completing their training; all other Air Force students incur a four-year commitment. Army students selected for active duty serve for three years; Army scholarship students selected for active duty serve four years. Army students commissioned into the National Guard or Army Reserve serve on active duty for initial schooling and then assume reserve obligations of varying lengths.

## Admission

The three ROTC programs are open to all students. (*Note:* The Navy program is being phased out at the University and is no longer accepting applicants.) Young men and women are selected on the basis of their own merits. Certain qualifications and eligibility criteria for enrollment and commissioning must be met, however, as set forth in the laws and regulations that govern the programs. Students who do not meet these criteria may enroll in a course for its educational value but do not receive financial benefits or an officer's commission. Basically, to be eligible for admission to a University of Minnesota ROTC program, applicants must:

- be full-time college students;
- have reached their 17th birthday by June 30 of the year they plan to enroll;
- be of sound physical condition;
- show evidence of moral integrity, satisfactory scholarship and extracurricular activity, and potential officer capabilities; and
- have no moral or personal convictions that will prevent them from conscientiously bearing arms in support and defense of the U.S. Constitution.

**Transfer Students**—Students who have participated in ROTC training at another college or university may request transfer if they were honorably released by the first institution and are accepted by a University of Minnesota ROTC program.

**Advanced Standing**—Students who have participated in ROTC training at another institution may be granted advanced standing for military courses successfully completed.

**Veterans**—Veterans may take advantage of their military service and experience by seeking advanced placement in a ROTC program. G.I. Bill educational benefits and ROTC benefits may be received concurrently. Army students may receive advanced standing for membership in the National Guard or Army Reserve through the Simultaneous Membership Program. After commissioning, veterans can count their prior service for longevity pay and retirement.

---

## General Information

---

### Scholarships

Four-year scholarships, open to high school seniors, and 3½-, 3-, 2½-, and 2-year scholarships, open to college students, are available through national or regional selection systems. Completed applications for four-year ROTC scholarships must be submitted by December 1 for enrollment the following fall.

Students accepted into one of the ROTC nonscholarship programs are normally eligible to compete for the scholarship program after one or two quarters of enrollment. Aptitude for military service and academic performance are major considerations for acceptance.

### Student Activities

Each ROTC department offers a wide range of activities for its students. A variety of local and nationally affiliated organizations offer interested and qualified students the opportunity to participate in activities, both on and off campus, that will develop their leadership and managerial skills. Social events and athletic competitions, scheduled throughout the school year, round out the activities available.

### Course Symbols

These symbols are used throughout the course descriptions in this bulletin:

§ Credit will not be granted if credit has been received for the course listed after this symbol.

¶ Concurrent registration is allowed (or required) in the course listed after this symbol.

# Registration Override Permit, completed and signed by the instructor, is required for registration.

Δ Registration Override Permit, completed and signed by the division, department, or school offering the course, is required for registration.

f,w,s,su Following a course number, indicates fall, winter, spring, or summer.

### University Regents

Jean B. Keffeler, Minneapolis, Chair  
Thomas R. Reagan, Gilbert, Vice Chair  
Wendell R. Anderson, Wayzata  
Julie A. Bleyhl, Madison  
William E. Hogan II, Minnetonka  
H. Bryan Neel III, Rochester  
Mary J. Page, Olivia  
Lawrence J. Perlman, Minneapolis  
William R. Peterson, Eagan  
Darrin M. Roshia, Owatonna  
Stanley D. Sahlstrom, St. Cloud  
Ann J. Wynia, St. Paul

### University Administrators

Nils Hasselmo, President  
Robert O. Erickson, Senior Vice President for Finance and Operations  
Ettore Infante, Senior Vice President for Academic Affairs and Provost  
C. Eugene Allen, Vice President for Agriculture, Forestry, and Home Economics  
Robert E. Anderson, Vice President for Health Sciences  
Anne H. Hopkins, Vice President for Arts, Sciences, and Engineering  
Marvalene Hughes, Vice President for Student Affairs  
Anne C. Petersen, Vice President for Research and Dean of the Graduate School  
Mark B. Rotenberg, General Counsel

### ROTC Administrators

Department of Military Science  
Lieutenant Colonel John W. Oravis, USA  
Professor and Head  
110 Armory (612/624-7300)

Department of Naval Science  
Commander Michael A. Lennon, USN  
Professor and Head  
203 Armory (612/625-6677)

Department of Aerospace Studies  
Colonel William H. Campbell, USAF  
Professor and Head  
3 Armory (612/624-2884)

The Armory is located at 15 Church Street S.E., Minneapolis, MN 55455.



DIST  
ALPHA

101

# Military Science (Army ROTC)

The Department of Military Science conducts the Army ROTC program to prepare men and women as officer candidates for the Regular Army, National Guard, and Army Reserve. In addition to instruction in military fundamentals common to all branches of the Army, this program develops in students the leadership attributes essential to their future roles as officers. Military science courses are offered in two- and four-year sequences that students complete concurrently with coursework required for earning a University degree. Students register and earn academic credits for Army ROTC classes in the same manner as for other elective courses in the curriculum.

## Programs

Two programs are available for students to earn their commissions as second lieutenants through Army ROTC:

**Four-Year Program**—The four-year Army ROTC program is divided into two parts, the Basic Course and the Advanced Course. The Basic Course is normally taken during the first two years of college and covers such subjects as customs, traditions, and organizations of the Army; national defense; military history; and leadership development. Except for students on scholarship, enrollment in the Basic Course requires no future military obligation by the students. All full-time enrolled students at the University are eligible to enroll in the Basic Course.

After completion of the Basic Course, students who have met the physical and scholastic standards and who have demonstrated the potential to become Army officers are eligible to enroll in the Advanced Course. The Advanced Course is taken during the final two years of college and includes more advanced on-campus instruction and a mandatory six-week Advanced Camp at Fort Lewis, Washington, held the summer between the two years of the course. Full course credit and recommendation for a commission are not granted without camp attendance. Nursing students attend a special camp. Qualified

students also have the opportunity to receive airborne, air assault, jungle warfare, and northern warfare training. Enrollment in the Advanced Course requires the student to agree in writing to complete the two years of the course and to accept, if offered, a commission as a second lieutenant.

**Two-Year Program**—The two-year Army ROTC program enables eligible students with acceptable advanced placement credits to bypass the Basic Course and enroll directly into the Advanced Course once they are academic juniors.

The primary method of obtaining advanced placement credits is for students to attend a six-week ROTC Basic Camp at Fort Knox, Kentucky, the summer after their freshman or sophomore years. Veterans and members of the Army National Guard or Army Reserve may use their prior military service to gain advanced placement in the program.

Students who have completed Junior ROTC programs at military schools or high schools are accepted for advanced placement on an individual basis. Students who have ROTC experience at other colleges receive credit for ROTC instruction completed.

Interested individuals must apply in person to the Department of Military Science for advanced placement or participation in the Basic Camp.

Students attending other colleges in the area may also enroll in Army ROTC at the University of Minnesota and are eligible for the same programs and scholarships available to University students.

A specially designed program for nursing students is also offered through ROTC to students enrolled in either the four-year or the two-year program.

## Benefits

The department supplies all ROTC texts and uniforms. Students in the Advanced Course also receive a \$100 monthly allowance during those two academic years.

Students attending the Basic or Advanced Camps are paid travel expenses and a salary. All food, housing, and clothing are furnished.

Students who have received their bachelor's degree and have been commissioned through the Army ROTC program may request a delay in reporting for duty in order to continue their education. Normally an additional two years are allowed for graduate study.

### Scholarships

There are numerous Army scholarship programs available. Students can receive four-year, three-year, or two-year scholarships. Four-year scholarships are offered annually to outstanding high school students selected in national competition. Applications should be submitted between July 1 and December 15 of the applicant's senior year in high school.

All students, whether they are enrolled in Army ROTC or not, are eligible to compete for three-year and two-year scholarships after completing their first or second years of college. In addition to the national competition, the professor of military science may award three-year and two-year scholarships.

For those awarded scholarships, the Army pays tuition, laboratory fees, textbook expenses, supplies, and other authorized educational expenses. In addition, students receive \$100 per month for the duration of the scholarship. Scholarship students selected for active duty incur a four-year active duty obligation after graduation.

Scholarships are also available from the National Guard, Army Reserve, American Legion, Association of United States Army, Reserve Officers Association, Society of American Military Engineers, ROTC Alumni Association, and Veterans of Foreign Wars.

### Commissions and Obligations

Completing the Army ROTC program qualifies graduates for appointments as second lieutenants in the Army Reserve or Army National Guard. These appointments include an obligation to serve on active duty for a period of three months to three years,

depending on Army officer requirements at the time of graduation, or to serve in the Army National Guard or Army Reserve for eight years. Nonscholarship students may have a guarantee of reserve forces duty. The branch of service in which students are commissioned will depend on such factors as their interests, their academic majors, their performance at advanced camp, and the needs of the Army.

Through a Distinguished Military Graduate program, Regular Army commissions are offered to outstanding students motivated to make Army service their career. Acceptance of a Regular Army commission will obligate a scholarship student to four years on active duty and a nonscholarship student to three years on active duty.

### Course Descriptions (Mil)

#### *Leadership Laboratory*

LL is a series of minicourses, covering military topics, taught to all cadets each quarter. These classes help students develop functional leadership skills in problem solving, decision making, personnel management, and other areas. Progressive and extensive practice in voice command, bearing, and physical fitness is emphasized. (Planned and directed largely by the Cadet Corps; 10 hours required each quarter. Nursing cadets are required to take 10 hours per year.)

### Lower Division

#### **Military Science I**

**1002w. BASIC MILITARY SKILLS.** (1 cr)  
Leadership laboratory providing basic skills and knowledge for drill and ceremonies with and without weapons, first aid, self-defense, communications procedures, and physical conditioning.

**1003s. BASIC MILITARY SKILLS.** (1 cr)  
Leadership laboratory providing basic skills and knowledge for land navigation, small-unit operations and weapons usage, intermediate level drill and ceremonies, and physical conditioning.

## Military Science (Army ROTC)

### **1009f. RIFLE MARKSMANSHIP.** (1 cr)

Small-bore rifle marksmanship techniques. Prone, kneeling, sitting, and standing firing positions. Range safety and equipment care.

### **1010. THE U.S. ARMY IN SOCIETY.** (2 cr)

Role of the officer and noncommissioned officer in the U.S. Army, Army Reserve, and National Guard; relation to society; application for military and civilian careers.

### **1012. U.S. MILITARY HISTORY.** (2 cr, §Hist 1952)

U.S. military history from colonial beginnings to 1898 and the influence of geography, economics, technology, and political decisions on the size, composition, and tactics of the U.S. military forces.

### **1013s. U.S. MILITARY HISTORY.** (2 cr, §Hist 1953)

U.S. military history from 1898 to the present and the influence of geography, economics, technology, and political decisions on the size, composition, and tactics of the U.S. military forces.

## Military Science II

### **1201f. LEADERSHIP: SMALL-UNIT RESPONSIBILITIES AND ACTIONS.** (1 cr)

Leadership laboratory to develop leader responsibilities, develop leadership skills in a small unit, increase basic military skills, and improve physical conditioning.

### **1202w. LEADERSHIP: SMALL-UNIT COMMUNICATIONS, CONTROL, AND COORDINATION.** (1 cr)

Leadership laboratory to develop leadership skills while performing as a small-unit leader, develop skills in communication and control, and improve physical conditioning.

### **1203s. LEADERSHIP: SMALL-UNIT TRAINING, TACTICS, AND TERRAIN ASSOCIATION.** (1 cr)

Leadership laboratory requiring the developing leader to instruct a class, direct the tactical deployment of a small unit, navigate by terrain to prescribed locations, and improve physical conditioning.

### **1221. LEARNING TO LEAD.** (2 cr)

Fundamental leadership traits, principles, and techniques. Assessment and development of leadership skills. Theory and practical application.

### **1222. TRAINING MANAGEMENT.** (2 cr)

Philosophy and principles. Concepts and applications in conducting and evaluating individual and collective training. Emphasis on managerial leadership.

## Directed Studies

### **3970. DIRECTED STUDIES.** (Cr ar; prereq #)

Provides flexibility so a student can fit an ROTC course into his/her schedule if it might otherwise prohibit participation in ROTC. Instructor and student determine a mutually convenient time to meet. Course content remains the same as for regularly listed military science course.

## Upper Division

### Military Science III

#### **3130. MILITARY SCIENCE III LEADERSHIP**

**LABORATORY.** (1 cr per qtr, 3 cr max; prereq #)  
Leadership laboratory to develop leadership skills and knowledge for effectively commanding, controlling, and communicating the actions of a small unit and for acquiring requisite military skills in areas such as basic mountaineering, drill and ceremonies, small-unit operations, land navigation, marksmanship, and physical conditioning.

#### **3131. LEADERSHIP ASSESSMENT AND TRAINING.** (3 cr; prereq #)

Lecture, discussion, and an oral presentation on applying principles of leadership while leading, communicating with, and training subordinates. Classroom instruction focuses on U.S. Army infantry organizations.

#### **3132. LAND NAVIGATION/SMALL-UNIT TACTICS.** (3 cr; prereq #)

Read and interpret military maps; use basic land navigation techniques; develop skills and knowledge required for squad- and platoon-sized tactical operations.

#### **3133. SMALL-UNIT TACTICS.** (3 cr; prereq #)

Small-unit operations in conventional and unconventional battlefield environments; employment in tactical situations.

## Military Science IV

#### **3140. MILITARY SCIENCE IV LEADERSHIP LABORATORY.** (1 cr per qtr, 3 cr max; prereq #)

Practical application of skills and knowledge in leading, supervising, instructing, and training others and planning, organizing, coordinating, conducting, and evaluating Army ROTC daily activities and special events.

#### **3141. MILITARY MANAGEMENT AND LEADERSHIP COMMUNICATIONS.** (3 cr; prereq #)

Duties and responsibilities of a second lieutenant. Command and staff functions and responsibilities and career management considerations. Practical work in briefing and corresponding with individuals and groups as a military leader.

#### **3142. MILITARY PROFESSIONALISM AND ETHICS.** (3 cr; prereq #)

Code of military ethics and professionalism. Critical ethical issues facing today's military leaders. U.S. Army logistics and sustainment operations, former structure of the Soviet military, future challenges of the U.S. Army.

#### **3143. MILITARY LAW.** (2 cr; prereq #)

History and basic concepts of military justice; emphasis on origin, nature, and purpose of Uniform Code of Military Justice and *Manual for Courts-Martial*; relationship between military justice and military discipline; scope and nature of appellate review.

Naval Science (Navy/Marine ROTC)



# Naval Science (Navy/Marine ROTC)

The Naval Reserve Officers Training Corps (NROTC) is phasing out its unit at the University of Minnesota and therefore is no longer accepting new applicants. There are 64 other colleges and universities nationwide that maintain active NROTC units.

Questions about NROTC and specific programs at the active units can be directed to the Navy Recruiting Command, Minneapolis District (612/334-4328) or the Naval Science Department at the University of Minnesota (612/625-6677).

Naval science courses are open to non-NROTC students through spring 1994. Descriptions of remaining courses are presented below.

## Program Description

NROTC offers the opportunity for qualified young men and women to earn commissions as Navy or Marine Corps officers as they complete requirements for a University degree. The NROTC program is the largest producer of officers for the Regular Navy.

During the four years of college, NROTC students (midshipmen) complete 29 credits of instruction in naval orientation, naval ship systems, seapower and maritime affairs, nautical navigation, organization, management, and leadership, plus 240 hours of professional training in military drills, ceremonies, courtesies, and honors.

Upon receiving their commissions, graduates move into various career areas. A newly commissioned ensign in the Navy is normally assigned to duty aboard a surface ship, a nuclear-powered submarine, or with an aviation squadron after a period of specialized training in the approved warfare specialty. Women officers are usually assigned to duty at shore activities, but an increasing number are being assigned to noncombatant ships and aviation squadrons. Newly commissioned Marine Corps second lieutenants can select from several occupational fields, such as the infantry, aviation, artillery, and engineering.

## Course Descriptions (Nav)

### 0204. PROFESSIONAL TRAINING IN NAVAL SCIENCE. (No cr; S-N only)

Instruction and training in basic military formations, movements, commands, courtesies and honors, personnel inspections, and other vocational subjects in naval science.

### 3401f. SCIENCE AND TECHNOLOGY IN THE DESIGN, CONSTRUCTION, AND USE OF MODERN WEAPONS SYSTEMS. (2 cr)

Techniques and methods in fusing scientific principles and current technology to design and construct military weapons and integrated weapons systems. Weapon propulsion, guidance, launching, command, control, and communications. Survey of characteristics of several advanced weapons platforms.

### 3402w. PRINCIPLES OF NAVAL MANAGEMENT II. (2 cr)

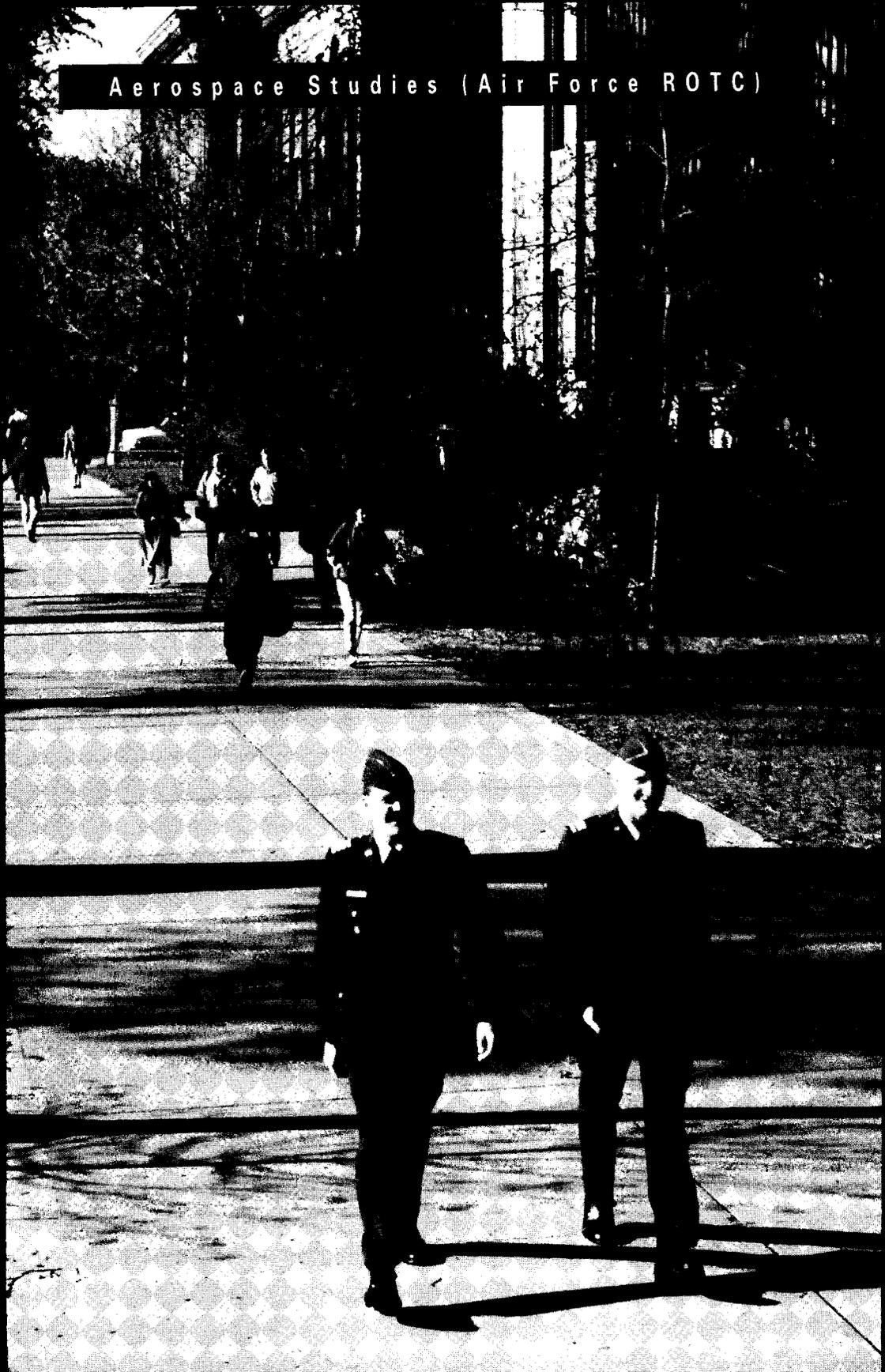
Management at the shipboard level: divisional organization, Uniform Code of Military Justice, formal organization.

### 3403s. PRINCIPLES OF NAVAL MANAGEMENT III. (2 cr)

Management at the shipboard level: divisional organization, Uniform Code of Military Justice, formal organization.



Aerospace Studies (Air Force ROTC)



---

# Aerospace Studies (Air Force ROTC)

---

The Air Force ROTC (AFROTC) program enables qualified men and women to work toward Reserve commissions as officers in the Air Force while completing requirements for a University degree. Students are commissioned as second lieutenants upon graduation.

The AFROTC curriculum emphasizes development of leadership and communication skills. Students learn ways in which the Air Force supports national policy. Management theory and its practical application in directing personnel and programs are emphasized.

AFROTC courses are offered by the Department of Aerospace Studies. Students register for these courses in the same manner as for other University courses.

## Programs

AFROTC offers both four-year and two-year commissioning programs. Under the four-year program students register for AFROTC courses beginning in their freshman year and complete a four-year academic curriculum that includes a four-week summer camp between their sophomore and junior years. Students electing the two-year program complete the last two years of the AFROTC program after attending a six-week camp during the summer immediately preceding their last two years at the University. The two-year program is available to both graduate and undergraduate students.

The vast scope of the Air Force is difficult to portray in the classroom. Air Force cadets have the opportunity to visit bases for firsthand observation of the operating Air Force. These trips are frequently made on weekends or scheduled to coincide with school vacation periods. Cadets may be flown by military aircraft to an Air Force base to tour facilities, receive mission briefings, and inspect aircraft and other technical equipment.

## Scholarship Programs

AFROTC offers two- and three-year competitive scholarships to college students in selected engineering, science, and other technical majors, as well as to nursing and premedical majors. These scholarships are may cover full college tuition and most laboratory, textbook, and incidental fees, plus a \$100 monthly nontaxable allowance during the school year. The Air Force is also currently offering a \$2,000 yearly scholarship to AFROTC juniors and seniors majoring in any field who are not on full scholarship. To apply, students should contact the AFROTC detachment during their freshman or sophomore year of college. Selections are based on scores achieved on the Air Force Officer Qualifying Test, overall grade point average, and the rating from an interview.

Four-year AFROTC scholarships are also available on a competitive basis. The application process occurs during the student's senior year in high school. Scholarship recipients are chosen by a national selection committee. Application deadline is December 1 for enrollment the following fall quarter.

## Admission

Entry into the last two years of the AFROTC program is on a competitive basis. Candidates must:

- take the Air Force Officer Qualifying Test (AFOQT);
- pass an Air Force medical examination;
- be approved by an interview board; and
- complete summer camp, i.e., field training (a four-week course for the four-year program, a six-week course for the two-year program).

Applicants selected for flight training must be able to complete graduation requirements and be commissioned before reaching 26 years of age. Other applicants must be able to complete graduation

requirements before age 30, although deserving students who have completed prior military service may obtain a waiver to complete the requirements up to age 35.

Admission to AFROTC academic courses is open to all interested students with the approval of the Department of Aerospace Studies.

*Note:* Applicants interested in the two-year program should apply during the fall quarter of their sophomore year.

## Benefits

All cadets receive uniforms and AFROTC textbooks throughout the program. During the last two years of AFROTC, all cadets receive \$100 per academic month and may travel on any military aircraft space available. All cadets also have the opportunity for orientation flights aboard Air Force aircraft, visits to Air Force bases, and a challenging job after graduation.

## Active Duty Requirements

Students not programmed for flight training incur a four-year active duty commitment. Those who enter the pilot and navigator programs incur a commitment of eight and six years active duty, respectively, after completing their training.

## Curriculum

The aerospace studies course consists of one hour per week attending lower division classes (General Military Course or GMC) for the first six quarters, and three hours per week attending upper division classes (Professional Officer Course or POC) for the last six quarters.

In addition to the classroom study, all AFROTC cadets are required to complete 10 hours of Leadership Laboratory each quarter. Students taking the aerospace studies courses for credit only and not enrolled in AFROTC are exempt from the Leadership Laboratory requirement.

## Course Descriptions (Air)

All AFROTC cadets complete the same sequence of upper division courses. Four-year cadets also complete the lower division courses. Any University student can enroll in any of the academic courses with instructor approval.

### *All AFROTC Cadets— Each Year/Each Quarter*

**0100. LEADERSHIP LABORATORY.** (No cr; S-N only)

Leadership knowledge and experiences in preparation for service as second lieutenants in the U.S. Air Force.

### *Lower Division*

**1104f. U.S. AIR FORCE.** (1 cr)

Introduction to the U.S. Air Force through studies of officership, followership, customs and courtesies, and other selected topics.

**1105w. AIR FORCE COMBAT COMMANDS.** (1 cr)

Mission, organization, and operation of the U.S. Air Force and two of its major commands. Communication skills.

**1106s. U.S. SUPPORT FORCES.** (1 cr)

Introduction to Air Force sister services of the Army, Navy, Marine Corps, and Coast Guard. Total Force as it applies to the Air National Guard and the Air Force Reserve.

**1204f. EARLY HISTORY OF AIR POWER.** (1 cr; prereq Δ)

Beginnings of human flight. Early military attitudes toward aviation and the development of employment concepts, tactics, and strategies. Early development of air doctrines.

**1205w. ALLIED AIRPOWER IN WORLD WAR II AND THE BERLIN AIRLIFT.** (1 cr; prereq Δ)

Uses of airpower in World War II. Development of an independent Air Force. Cold War strategy. The Berlin Airlift.

**1206s. MODERN EMPLOYMENT OF AIR POWER.** (1 cr; prereq Δ)

Effects of air power on tactics and strategy in the modern world. Role of air power in Korea, Cuba, Southeast Asia. Air power advances over the past quarter century.

### *Upper Division*

**3301f. MILITARY MANAGEMENT.** (3 cr; prereq Δ)

Fundamentals of management processes with emphasis on the unique nature of management in the Air Force. Emphasis on problem solving, decision making, performance appraisal, and communication skills. Lectures, discussions, student presentations, seminars, and various experiential methods.

**3302w. AIR FORCE LEADERSHIP COMMUNICATION.** (3 cr; prereq Δ)

Multidimensional study of leadership, relating theory and practice. Overview of theoretical approaches to leadership. Application of interpersonal communication skills to leadership practice. Small-group processes and analysis of individual behavior, motivation, and perceptual processes. Lectures, discussions, student presentations, seminars, and various experiential methods.

**3303s. CONTEMPORARY PROBLEMS IN AIR FORCE MANAGEMENT.** (3 cr; prereq Δ)

Integration and application of management and leadership concepts to contemporary Air Force situations. Emphasis on social problems and issues related to the all-volunteer, professional force. Command and staff functions, ethics, responsibilities. Lectures, discussions, student presentations, seminars, and various experiential methods.

**3401f. MILITARY IN SOCIETY.** (3 cr; prereq Δ)

Role and function of the professional officer in a democratic society. Civil-military relationships. Development of communication skills.

**3402w. FORMULATION AND IMPLEMENTATION OF U.S. DEFENSE POLICY.** (3 cr; prereq Δ)

Principal requirements for maintaining adequate national security forces. Constraints affecting formulation of U.S. defense policy. Impact of both technological and international developments upon strategic preparedness and the overall defense policymaking process.

**3403s. MILITARY LAW AND SERVICE ORIENTATION.** (3 cr; prereq Δ)

History and basic concepts of military justice; emphasis on origin, nature, and purpose of Uniform Code of Military Justice and *Manual for Courts-Martial*; relationship between military justice and military discipline; scope and nature of appellate review; service orientation for newly commissioned officers.

# Index

Active Duty Requirements 15  
Activities 6  
Administration 6  
Admission 5, 14  
Advanced Standing 5  
Aerospace Studies 13-16  
Air Force ROTC 13-16  
Army ROTC 7-10

Benefits 5, 8, 15  
Bulletins 2

Commissions 9  
Course Descriptions  
    Air 15-16  
    Mil 9-10  
    Nav 12  
Course Symbols 6  
Curricula 4, 8, 12, 15

Equal Opportunity 2  
Extracurricular Events 2

Four-Year Program, Army ROTC 8

History 4

Immunization 2

Leadership Laboratory 9, 15  
Lower Division 9, 15

Map inside back cover  
Marines 12  
Military Science 7-10

Naval Science 11-12  
Navy ROTC 11-12

Obligations 5, 9

Philosophy 4  
Professional Training, NROTC 12  
Programs 4, 8, 12, 14

Records, Access to 2

Scholarships 5, 6, 9, 14  
Symbols, Course 6

Transfer Students 5  
Two-Year Program, Army ROTC 8

Upper Division 11, 17, 22

Veterans 5

## Postal Statement

Volume 96, Number 10  
July 15, 1993

University of Minnesota  
(USPS 651-720)

Published by the University of Minnesota, Office of the Vice President for Student Affairs, Communications & Publications, 110 Williamson Hall, 231 Pillsbury Drive S.E., Minneapolis, MN 55455; once in May and June; twice in February, September, and October; three times in April; and five times in July. Second-class postage paid at Minneapolis, Minnesota. POSTMASTER: Send address changes to University of Minnesota, 110 Williamson Hall, 231 Pillsbury Drive S.E., Minneapolis, MN 55455.



Paper for the cover and text of this bulletin was selected for use in the University Recycling Program. The paper contains 10 percent post-consumer material.

Please keep this bulletin for future use, pass it along, or drop it in a University office paper recycling barrel.

University of Minnesota  
(USPS 651-720)  
Communications & Publications  
110 Williamson Hall  
231 Pillsbury Drive S.E.  
Minneapolis, MN 55455-0213

Second-Class  
U.S. Postage  
Paid  
Minneapolis, MN

2236  
UNIVERSITY ARCHIVES  
10 WALTER LIBRARY  
MPLS, EAST BANK

UNIVERSITY OF MINNESOTA  
Army-Navy-Air Force ROTC 1993-1995