

Army-Navy-Air Force ROTC

UNIVERSITY OF MINNESOTA

BULLETIN

1991-1993

ARMY

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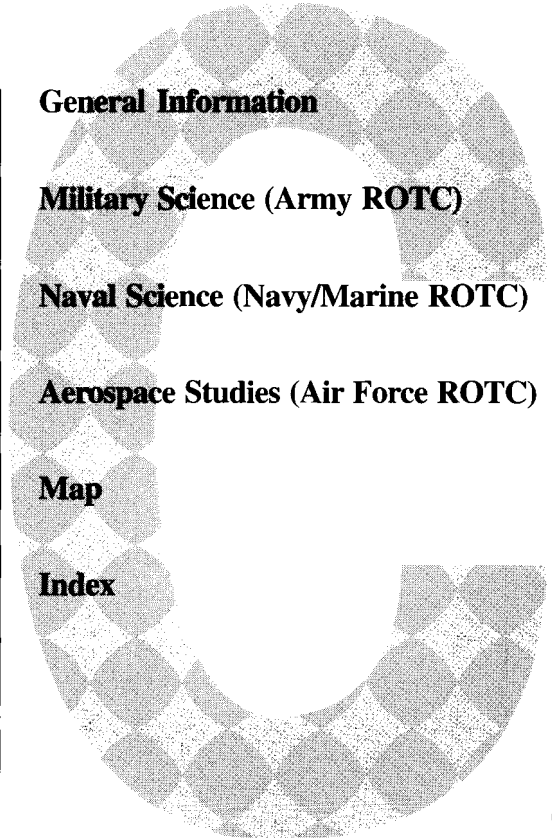
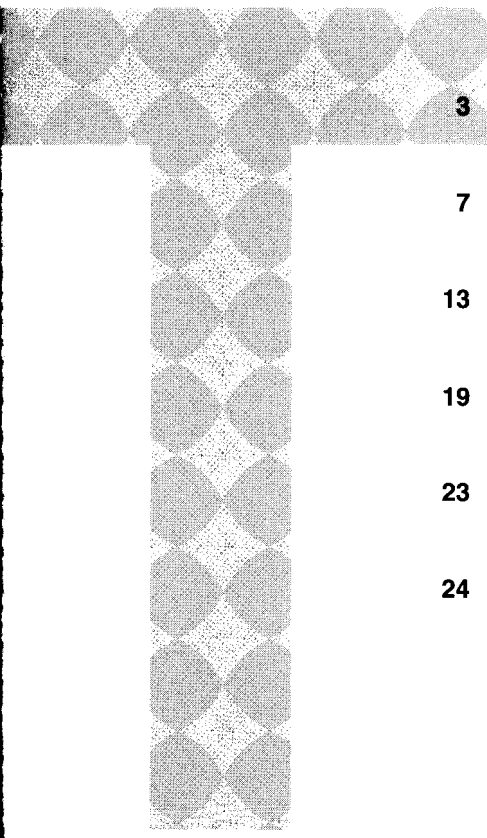
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Officers!
Training Corp
provides
opportunity,
challenge,
direction, and
leadership for
today's student.



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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 visiting the Williamson Hall Information Center or by calling 612/625-3030.

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, religion, color, sex, national origin, handicap, age, 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, 42 U.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 addressed to Patricia A. Mullen, Director, Office of Equal Opportunity and Affirmative Action, 419 Morrill Hall, University of Minnesota, 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, telephone number, dates of enrollment and enrollment termination, 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 the Williamson Hall Information Center, 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—As of July 1, 1990, 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 through whatever procedure it determines most feasible. The Senate advises all faculty that students who are unable to complete course requirements during finals week shall be provided an alternative and timely opportunity to do so.

ROTC

Army-Navy-Air Force ROTC

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 Congress of the United States, 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 for entrance into 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. 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. For students, ROTC coursework offers 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 are designed to prepare students for military service as junior officers. Students learn to exercise self-discipline, to organize time and effort efficiently, to perform effectively under stress, to analyze and react quickly and with good judgment, and to 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 \$500, 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 also 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 (seven 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. Young men and women are selected on the basis of their own merits. Certain qualifications and eligibility criteria for enrollment and for 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 an 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, the 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.

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Department of Naval Science
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Department of Aerospace Studies
Colonel Larry P. Cornwell, USAF
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The Armory is located at 15 Church Street S.E., Minneapolis, MN 55455.

Army-Navy-Air Force ROTC

Military Science (Army ROTC)



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.

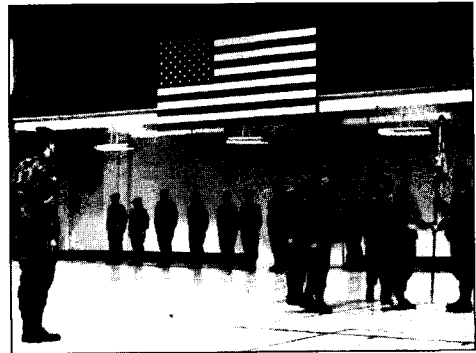
Two-Year Program—The two-year Army ROTC program enables eligible students with acceptable advanced placement credits to bypass the Basic Course and enroll directly into the Advanced Course once they are academic juniors.

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 are designed to 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)

A leadership laboratory providing the 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)

A leadership laboratory providing the basic skills and knowledge for land navigation, small-unit operations and weapons' usage, intermediate level drill and ceremonies, and physical conditioning.

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)

A leadership laboratory to instruct 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)

A 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)

A 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 #)

A 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 #)

A combination of lecture, discussion, and an oral presentation in learning how to apply the principles of leadership while leading, communicating, and training subordinates. Classroom instruction will focus on U.S. Army infantry organizations.

Military Science (Army ROTC)

3132. LAND NAVIGATION/SMALL-UNIT

TACTICS. (3 cr; prereq #)

Read and interpret military maps; use basic land navigation techniques; and 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 in planning, organizing, coordinating, conducting, and evaluating the daily activities and special events of the Army ROTC organization.

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 #)

Study of the code of military ethics and professionalism.

Critical ethical issues facing today's military leaders.

U.S. Army logistics and sustainment operations and current structure of the Soviet military.

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.

Army-Navy-Air Force ROTC

Naval Science (Navy/Marine ROTC)



Naval Science (Navy/Marine ROTC)

The Naval Reserve Officers' Training Corps (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.

Student Categories

Students who study and train with the NROTC unit at the University of Minnesota can be classified into three categories:

Naval Science Students—Naval science students are associated with the unit for instruction only, i.e., for classes in navigation or in organization and management. They register and pay fees in the same manner as for other academic courses at the University. Such students are not eligible to participate in the summer training programs, to be issued uniforms, to have access to classified information, or to receive any financial benefits. Those who are eligible may qualify for enrollment as NROTC college program students.

College Program Students—College program students are enrolled by the professor of naval science. Such students are normally already attending the University or have transferred to the University from other institutions. College program students are issued uniforms and provided naval science textbooks, but they must pay their own tuition and fees. During the junior and senior years (Advanced Course) they enlist in the Naval Reserve and receive \$100 per month for up to 20 months. Upon graduation and commissioning in the Naval or Marine Corps Reserve, they serve a minimum active duty obligation of three years. College program students may apply for scholarship status through appointments based on the recommendation of the Professor of Naval Science.

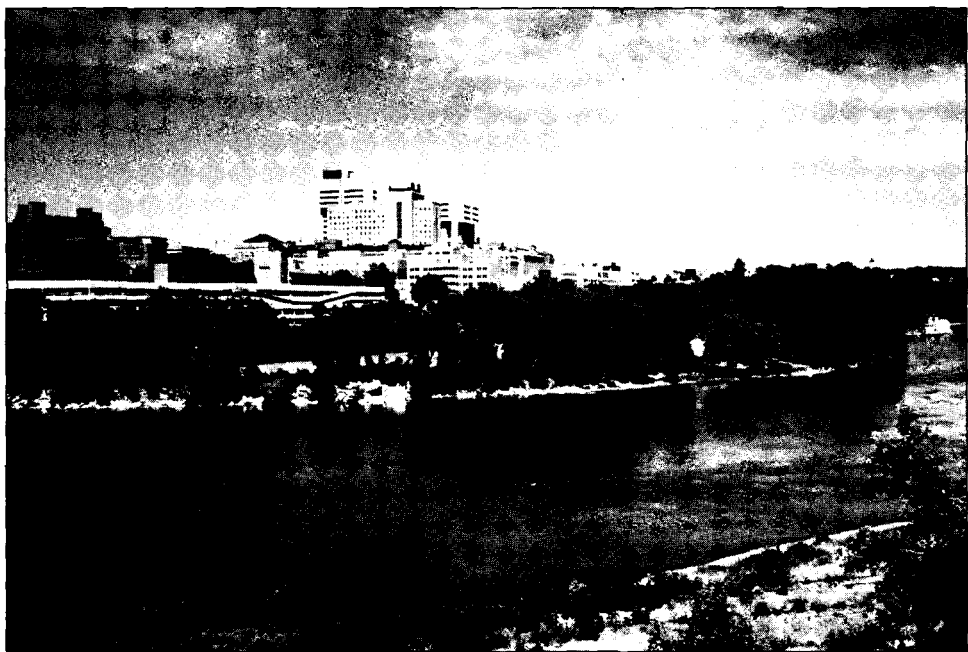
Scholarship Students—Scholarship students are appointed through an annual national selection process or through competition with their contemporaries and/or recommendation of the Professor of Naval Science. Once appointed, students are designated as midshipmen in the Naval Reserve and receive tuition, fees, books, and a subsistence allowance of \$100 per month for up to 40 months. Upon graduation and commissioning in the Regular Navy or Marine Corps, they serve a minimum active duty obligation of four years.

Programs

Four NROTC programs are available that lead to rewarding careers as officers in the Navy or Marine Corps:

Four-Year College Program—The Navy-Marine Corps (nonsubsidized) four-year college program is for students who wish to serve their country for a specified period as Reserve officers in the Navy or Marine Corps. Participants are selected from freshmen enrolling at the University.

There are almost no restrictions on undergraduate academic courses students may choose, provided they can be applied to a bachelor's degree. The only requirement is



that students successfully complete the required naval science and certain specified University courses before graduation. In addition, students attend one short summer training session as well as drills during the school year.

After graduation from college and completion of their naval science requirements, students will be commissioned as ensigns in the Naval Reserve or as second lieutenants in the Marine Corps Reserve, ready to serve on active duty for a minimum three years.

Four-Year Scholarship Program—The Navy-Marine Corps four-year scholarship program is maintained for one purpose—to educate and train qualified young men and women for service as commissioned officers in the Regular Navy or Marine Corps.

Scholarship recipients are chosen by a national selection committee and must be accepted by the University. The application deadline is December 1 for enrollment the following fall quarter.

Scholarship students are required to complete three summer training periods, for

which they receive training pay. After completing naval science requirements and earning a bachelor's degree, students will transfer from Reserve status to active duty with a commission as officers in the Regular Navy or Marine Corps, ready to continue and specialize in their chosen military careers.

Students already enrolled in the college (nonsubsidized) program may enter the scholarship program upon nomination by the Professor of Naval Science and selection by the Chief of Naval Education and Training.

Two-Year College Program—Students attending or transferring to the University should apply for the two-year college program before March 15 of their sophomore year. Students selected must attend a six-week Naval Science Institute (NSI) in Newport, Rhode Island. At the beginning of their junior year, students begin to receive the \$100 monthly allowance.

Students finishing near the top of the NSI class may be offered NROTC scholarship program status for their remaining two years of college. This includes full tuition plus the

Naval Science (Navy/Marine ROTC)

other scholarship program benefits, and also incurs a four-year active duty obligation.

Naval Science Institute (NSI)—Students selected for either of the two-year programs must attend the Naval Science Institute in Newport, Rhode Island, in June after completion of their sophomore year of college. These students participate in a six-week course of instruction in naval science and professional training. While at NSI, they receive pay as seaman recruits. Uniforms, room, and board are furnished by the Navy. Successful completion of NSI qualifies students for enrollment in the Advanced Course of the NROTC program.

Two-Year Scholarship Program—The Navy-Marine Corps two-year scholarship program was established to provide NROTC opportunities to college juniors and seniors. Interested students should apply before March 15 of their sophomore year. Selected students must complete a six-week Naval Science Institute (NSI) in Newport, Rhode Island. Following NSI, students enroll in the Advanced Course of the NROTC program. Commissioning as an ensign or a second lieutenant follows successful completion of the program and carries an obligation to serve four years of active duty.

Naval Science Institute (NSI)—See description above.

Curriculum

The naval science curriculum encompasses naval science subjects from basic seamanship to fleet operations and provides intensive schooling in the art of being a naval officer. All midshipmen receive indoctrination in the background and meaning of our national and naval traditions and the importance of professional performance. This awareness, together with the knowledge of and opportunity to practice basic leadership principles, affords them the inner confidence necessary to effectively lead and command others.

Midshipmen study the first- and second-year courses described below. During the third and fourth years, they study the courses of the Navy or Marine Corps sequence. Two-year students complete only the Navy or Marine Corps upper division sequence. In addition to the courses specified, students are required to meet with their NROTC unit for about two hours each week for professional training. During the junior and senior years, these sessions concentrate primarily on development of command and leadership skills. NROTC students are also required to take certain University courses specified by the Navy.

Students register for NROTC courses in the same manner as for other courses in their academic programs. These courses carry academic credit and may be used to fulfill requirements toward a University degree. Students who are not in the NROTC program may enroll in a naval science course as an elective with the instructor's consent.



Course Descriptions (Nav)

Professional Training

All NROTC Students—Each Year/Each Quarter

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.

Lower Division (Basic Course)

All NROTC Students—First Year

1101f. FUNDAMENTALS OF NAVAL SCIENCE I. (2 cr; A-F only)

Instruction in the fundamentals of naval science.

1102w. FUNDAMENTALS OF NAVAL SCIENCE II. (2 cr)

Instruction in the fundamentals of naval science.

1103s. SEAPOWER AND MARITIME AFFAIRS. (3 cr, §Hist 5021, §Hist 5022)

Historical influences on the development of the United States Navy from the American Revolution to the present. Examination of several critical, contemporary issues in naval/maritime affairs.

All NROTC Students—Second Year

1201f. INLAND AND COASTAL NAVIGATION. (3 cr)

Piloting, dead reckoning, fixes, running fixes, tides, currents, and anchoring. Rules of the nautical road.

1202w. CELESTIAL AND ELECTRONIC NAVIGATION. (4 cr; prereq trigonometry, 1201)

Navigation using celestial bodies. Modern electronic navigation systems.

Mgmt 3001s. FUNDAMENTALS OF MANAGEMENT. (4 cr, §8001)

Leadership and management functions such as those required to establish goals, policies, procedures, and plans. Motivation, planning, control systems, and concepts of organizational structure and behavior.

Upper Division (Advanced Course)

Navy Sequence—Third Year

3301f. NAVAL SHIPS SYSTEMS I. (2 cr)

Types, purposes, and structures of naval ships. Ship compartmentation, steam and fossil fuel propulsion systems, ship design, and ship stability characteristics.

3302w. NAVAL SHIPS SYSTEMS II. (2 cr)

Nonsteam and nuclear ship propulsion systems, auxiliary ship support systems, ship control, and sensors.



3303s. ADVANCED NAVAL OPERATIONS. (3 cr; prereq #)

International rules of the nautical road. Relative motion and ship maneuvering. Applying the maneuvering board in solving motion problems.

Navy Sequence—Fourth Year

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.

Marine Corps Sequence—Third Year

3352f. EVOLUTION OF ART OF WAR I. (2 cr; prereq #)
Principles of war. Evolution of warfare from 3500 B.C. through the French Revolution.

3353w. EVOLUTION OF ART OF WAR II. (2 cr; prereq #)
Military technology and theory from the industrial revolution through the armistice preceding World War II.

3354s. EVOLUTION OF ART OF WAR III. (2 cr; prereq #)
Warfare from World War II through Vietnam.

Marine Corps Sequence—Fourth Year

3452f. AMPHIBIOUS WARFARE I. (2 cr; prereq #)
Amphibious warfare techniques from Gallipoli through World War II operations in the Mediterranean.

3453w. AMPHIBIOUS WARFARE II. (2 cr; prereq #)
Amphibious warfare techniques from the Pacific campaigns of World War II through the postwar amphibious trials.

3454s. AMPHIBIOUS WARFARE III. (2 cr; prereq #)
Post-World War II amphibious operations; present-day concepts of amphibious operational planning.

Army-Navy-Air Force ROTC

Aerospace Studies (Air Force ROTC)





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

Courses in the Air Force ROTC program are offered by the Department of Aerospace Studies. Students register for these courses in the same manner as for other University courses.

Programs

Air Force ROTC offers both four-year and two-year commissioning programs. Under the four-year program students register for Air Force ROTC 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 year. Students electing the two-year program complete the last two years of the Air Force ROTC 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

Air Force ROTC offers 1- to 3½-year competitive scholarships to college students in selected engineering, science, and nontechnical majors, as well as to nursing and premedical majors. To apply, students should contact the Air Force ROTC 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 Air Force ROTC Scholarships are also available on a competitive basis. The application process occurs during the student's senior year in high school. These scholarships are awarded in many majors and may cover full college tuition and most laboratory, textbook, and incidental fees, plus a \$100 monthly nontaxable allowance

during the school year. 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 Air Force ROTC 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 Air Force ROTC 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

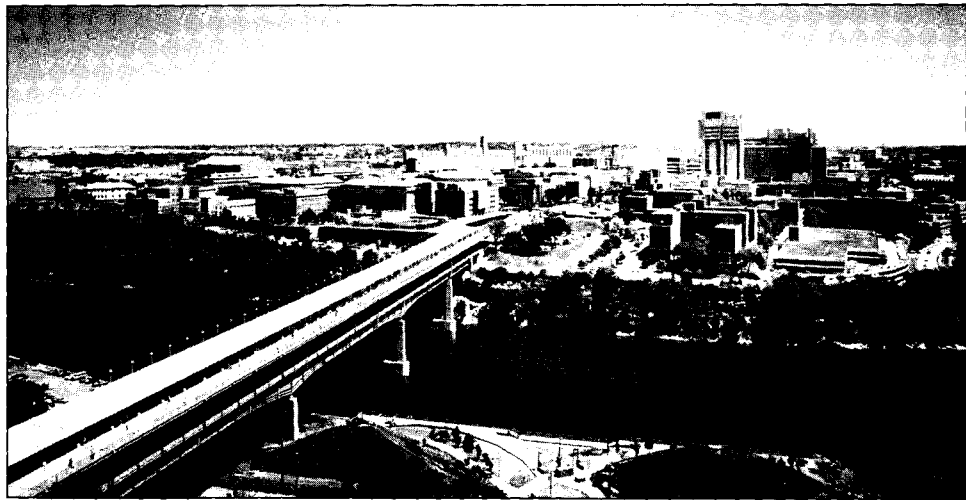
All cadets receive uniforms, AFROTC textbooks throughout the program, and receive academic credit for AFROTC classes. During the last two years of AFROTC, all cadets receive \$100 per academic month and may travel on any military aircraft space available. All cadets also have the opportunity for orientation 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 Air Force ROTC cadets are required to complete 10 hours of Leadership Laboratory each quarter. Students who are taking the aerospace studies courses for credit only and are not enrolled in the Air Force ROTC program are exempt from the Leadership Laboratory requirement.

Course Descriptions (Air)

All Air Force ROTC 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.

Leadership Laboratory

LL is a series of minicourses, covering military topics, taught to all cadets each quarter. These classes are designed to 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.)

Lower Division

1104f. U.S. AIR FORCE. (1 cr; prereq Δ)
The doctrine, mission, and organization of the U.S. Air Force.

1105w. AIR FORCE COMBAT COMMANDS. (1 cr; prereq Δ)
The mission, organization, and operation of the Strategic Air Command, Military Airlift Command, and Tactical Air Command and their contributions to the U.S. strategic offensive, combat support, and general purpose forces.

1106s. U.S. SUPPORT FORCES. (1 cr; prereq Δ)
The structure and functions of Air Force support forces. Organizations that support the combat commands. Air Force interaction with the Army and Navy.

1204f. EARLY HISTORY OF AIR POWER. (1 cr; prereq Δ)
The 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 AIRPOWER. (1 cr; prereq Δ)
Effects of air power on tactics and strategy in the modern world. The 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.

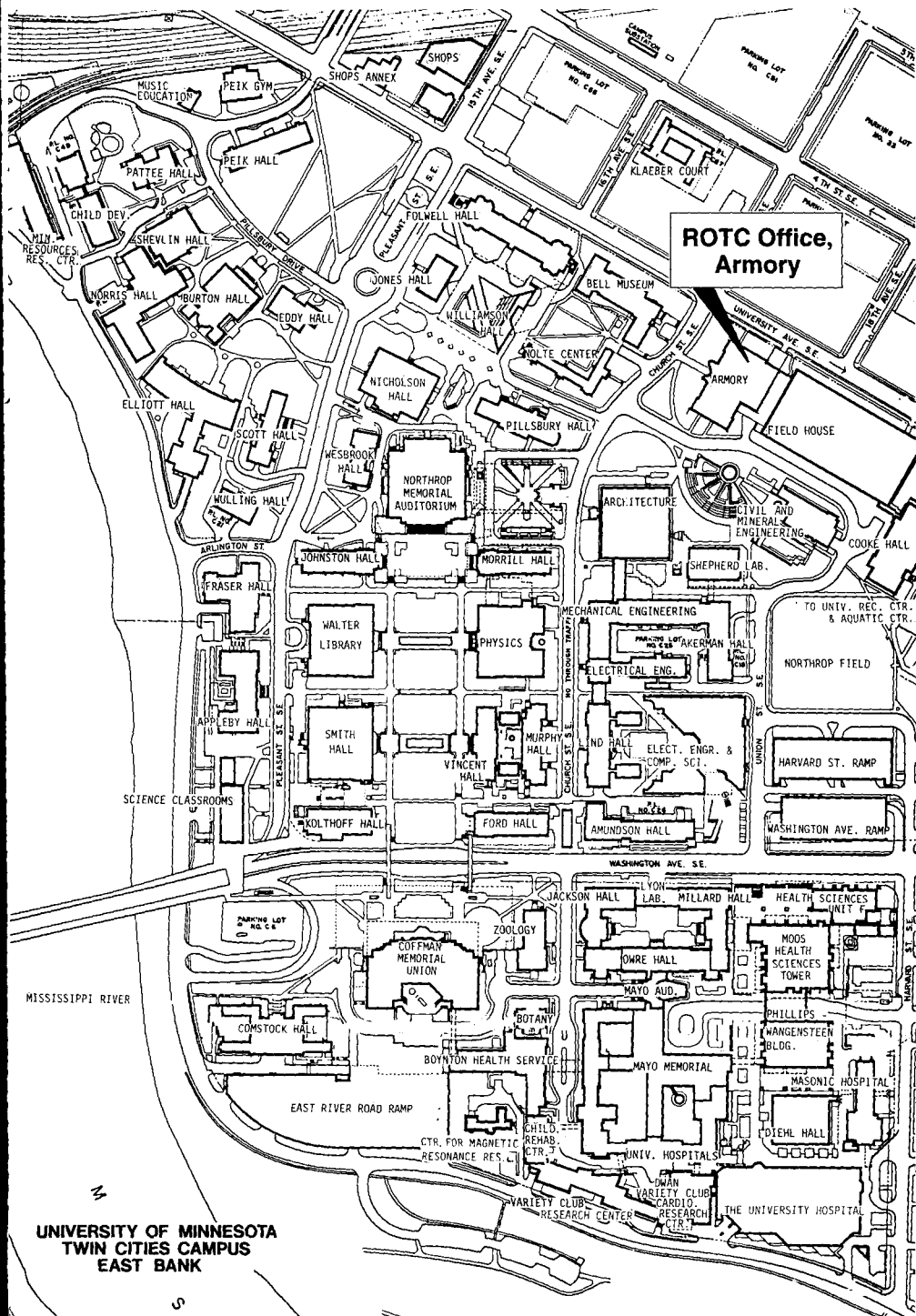
3302w. AIR FORCE LEADERSHIP COMMUNICATION. (3 cr; prereq Δ)
Multidimensional study of leadership, relating theory and practice. Overview of theoretical approaches to leadership. Application of interpersonal communication skills to leadership practice. Small-group processes and analysis of individual 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 the 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.



**ROTC Office,
Armory**

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