

University of Minnesota

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Bulletin

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army. navy. air force rotc



UNIVERSITY OF MINNESOTA

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Army-Navy-Air Force ROTC

MILITARY SCIENCE

GENERAL INFORMATION

Military science is the Army ROTC program offered at most of the nation's land grant colleges, including the University of Minnesota. The purpose of this program is to provide officers for the United States Army.

The Reserve Officers' Training Corps plays an important part in the national defense framework of our nation. In its primary role of producing Reserve officers, it is a vital element in fulfilling the traditional American concept of dependence on a well-trained Reserve rather than a large standing Army.

ROTC at the University

At the University of Minnesota, military science is an elective 2- and 4-year college course which the student can schedule in the same manner as any other elective course in his curriculum. The program, although prescribed by the Army, is administered by the University, and academic credits applicable to graduation are given in colleges of the University. Instruction encompasses military fundamentals common to all branches of the Army. The aim is to provide a basic military education and, in conjunction with other college curricula, to develop individual characteristics and attributes of leadership essential to an officer.

Reserve Commission

Completion of the 2- or 4-year program qualifies the student for appointment as a second lieutenant, United States Army Reserve, concurrently with the granting of his academic degree. The appointment includes an obligation to serve on active duty for a period of 2 years. The student can be draft-deferred while enrolled in Army ROTC.

Scholarships and Regular Army Commission

Military science students may receive a 4-year, 3-year, or 2-year scholarship if he meets the requirements. Four-year competitive scholarships are offered annually for outstanding high school students. Applications for the 4-year scholarships should be submitted to Fifth Army Headquarters, Fort Sam Houston, Texas, during the applicant's senior year in high school.

Army - Navy - Air Force ROTC

Army ROTC students who enroll in the 4-year program become eligible for a 3-year or a 2-year scholarship after the completion of the first or the second year of the program. Selection for either scholarship is determined by the student's academic standing in both military and nonmilitary subjects. Applications for the 3-year and the 2-year scholarships are accepted and processed by the Department of Military Science.

For those awarded scholarships, the Army pays tuition, lab fees, textbooks, and other required expenses, except room and board. In addition, the student receives \$50 per month for the duration of the scholarship. Upon graduation and commissioning the scholarship student is obligated to serve 4 years on active duty.

Regular Army commissions are also offered to outstanding students in the 2- or 4-year courses of study through a Distinguished Military Graduate Program. Further information concerning these opportunities may be obtained from the Department of Military Science.

Obligations

Enrollment in Military Science I and II, other than through the scholarship program, entails no personal military obligation nor special University obligation for the student. Upon selection and enrollment in Military Science III and IV, the student must enlist in the U.S. Army Reserve, and agree to complete the remaining 2 years of ROTC, and to accept a commission as second lieutenant, if offered, upon completion of the course and graduation from the University. The ROTC graduate has a 2-year active duty obligation.

Allowances

All texts and uniforms are furnished by the department. In addition, students who have been accepted for Military Science III and IV receive pay of \$50 per month during the academic year, and approximately \$225 per month during the 6-week summer camp.

Qualifications for Enrollment

The following qualifications for enrollment and for a commission are required. Students who do not meet these qualifications may enroll in the course and can petition the University for credit but will not receive financial benefits or an officers' commission. Students enrolled at another institution that does not offer ROTC are eligible, if otherwise qualified, to be members of the Army unit at the University of Minnesota. The student must:

1. Be enrolled as a full-time student.
2. Be a male citizen of the United States.
3. Successfully complete the requirements for commissioning prior to his 28th birthday.
4. Have sufficient time remaining in his college curriculum to complete the ROTC program.
5. Be physically qualified as determined by Department of Army standards.
6. Not have been previously commissioned in one of the armed services.

Transfer of ROTC Credit

Students who have had ROTC at other collegiate institutions will be given credit for prior ROTC instruction successfully completed. Students who have completed ROTC at military schools and high schools will also be granted credit for ROTC successfully completed on an individual case basis.

Graduate Studies

The opportunity exists for those students who have received their Bachelor's degree and have been commissioned through the Army ROTC program to request a delay in reporting for active duty in order to continue their education. Normally this delay allows the student an additional 2 years to pursue graduate studies.

Registration

Formal registration for the initial military science course is affected in the same manner as registration for other academic courses of the University. Students initially registering for advanced standing must secure prior acceptance by personal application at the Department of Military Science, 108 Armory Building, Minneapolis Campus. Military science courses are listed in the University *Class Schedule*.

Branch Assignment

The curriculum provides the student with a broad general military background without emphasis on a particular branch. The branch in which the student will be commissioned is selected during his senior year. Factors considered are the relationship of the course of academic study pursued by the student to a particular branch, his personal desires, and the needs of the service.

Summer Camp

The "laboratory" for military science is a summer camp conducted at either Fort Riley, Kansas, or Fort Knox, Kentucky. Two 6-week summer camps are conducted for students enrolled in the 2-year program. Prior to being accepted into the 2-year program the student must complete a 6-week Basic Summer Camp held at Fort Knox which substitutes for the first 2 years taken by the students in the 4-year program. Students attending this summer camp will be paid approximately \$130 per month in addition to travel expenses to and from Fort Knox.

All students will attend a 6-week Advanced Summer Camp held at Fort Riley during the summer between Military Science III and IV. This summer camp is a required part of the program and attendance is necessary for full course credit and a commission. Postponements for 1 year may be authorized. Students are paid travel expenses to and from Fort Riley as well as approximately \$225 per month while at summer camp. All accommodations, clothing, and food are furnished at both summer camps.

Army - Navy - Air Force ROTC

DESCRIPTION OF COURSES

LOWER DIVISION COURSES

MILITARY SCIENCE I

- 1-011 (11). WORLD MILITARY HISTORY.** (2 cr; prereq Δ , Leadership Laboratory^{**})
Provides student with basic concepts of military history to include principles of war, military definitions, and relationship of geography, economics, and technology to military history; beginning of discussion on warfare through the ages—rise of Islam and its military institutions.
- 1-012 (12). WORLD MILITARY HISTORY.** (2 cr; prereq Δ , Leadership Laboratory^{**})
Warfare through ages; discovery of gunpowder and beginnings of modern armies; limited war of 18th century; great age of sail; nation in arms and Napoleon; armaments race in 19th century.
- 1-013 (13). WORLD MILITARY HISTORY.** (2 cr; prereq Δ , Leadership Laboratory^{**})
Continuation of discussion of warfare through the ages; advent of total war—World War I and World War II; policy of containment and its military implications; Korean War and rearmament; modern Army.

MILITARY SCIENCE II

- 1-021 (21). FOUNDATIONS OF NATIONAL POWER.** (2 cr; prereq Δ , Leadership Laboratory^{**})
Discussion of the basic factors involved in a nation's capacity for developing power; geographical position, nature of population, social organization; the ideology, economy, and technological resources of a nation.
- 1-022 (22). FOUNDATIONS OF NATIONAL POWER.** (2 cr; prereq Δ , Leadership Laboratory^{**})
Discussion of the international political system and its influence on national power; force as related to other types of influence; force as related to other instruments of policy.
- 1-023 (23). FOUNDATIONS OF NATIONAL POWER.** (2 cr; prereq Δ , Leadership Laboratory^{**})
Discussion of varying levels of military force available to implement policy; case studies of USSR and Red China.

TWO-YEAR SUMMER CAMP

The 2-year summer camp is designed to provide instruction in basic military subjects (in lieu of MS I and II above) in preparation for entry into MS III. Students receive training and instruction by qualified military personnel in such subjects as Organization of the Army and ROTC, Military Customs, Courtesies and Traditions, Military History, and Map Reading. In addition, students are given field training in Basic Tactics, Rifle Marksmanship, Physical Training, and Hand-to-Hand Combat during the 6-week period at Fort Knox, Kentucky.

^{**} Leadership Laboratory is taught concurrently to all cadets during the fall, winter, and spring quarters. The laboratory is designed so that the individual student can demonstrate his progressive ability in individual and group drill. Progressive and extensive practice in voice and command, unit formations, exercise of command, bearing, and posture is emphasized. Assists in identification and development of individual leadership traits and qualities of character.

UPPER DIVISION COURSES

MILITARY SCIENCE III

- 5-131 (131). METHODS OF INSTRUCTION AND MAP READING.** (3 cr; prereq Δ, Leadership Laboratory^{oo})
Provide students with a working knowledge of principles, methods, and techniques of preparing, presenting, and evaluating military instruction; practice teaching; skills utilized in reading and interpreting military maps and aerial photographs; basic land navigation techniques.
- 5-132 (132). SMALL UNIT TACTICS AND COMMUNICATIONS.** (3 cr; prereq Δ, Leadership Laboratory^{oo})
Small unit operations in conventional and unconventional battlefield environments; employment of these units in tactical situations; introduction in the function, capabilities, and limitations of signal equipment.
- 5-133 (133). LEADERSHIP AND BRANCHES OF THE ARMY.** (3 cr; prereq Δ, Leadership Laboratory^{oo})
Study of individual and small group problems; introduction in to the particular aspects and opportunities in various branches of the Army.

ADVANCED SUMMER CAMP

The purpose of this 6-week summer camp is to provide the ROTC student with practical experience and instruction in the skills and duties required of a second lieutenant in the United States Army. The student will receive practical training designed to supplement institutional instruction. This "laboratory" is designed to develop the physical and mental characteristics desired in an officer, and to further develop the traits of military leadership so vital to an officer on active duty. The subjects given primary emphasis include training in individual and crew served weapons, signal communications, advanced tactical training, map reading, and arms and services orientations. The camp is conducted at Fort Riley, Kansas.

MILITARY SCIENCE IV

- 5-141 (141). MILITARY OPERATIONS.** (3 cr; prereq Δ, Leadership Laboratory^{oo})
Explanation of command and staff organization and functions; discussion of a commander's estimate of the situation and his operations order; importance of military intelligence cycle to military team; principles of training management and its application to successful military operations.
- 5-142 (142). MILITARY LOGISTICS AND ADMINISTRATION.** (3 cr; prereq Δ, Leadership Laboratory^{oo})
Military logistical supply system and its related importance to combat operations; military personnel management procedures, including records, classification and assignment, unit fund accounting, and mess management.
- 5-143 (143). MILITARY LAW AND SERVICE ORIENTATION.** (3 cr; prereq Δ, Leadership Laboratory^{oo})
History and basic concepts of military justice; emphasis placed 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.

^{oo} Leadership Laboratory is taught concurrently to all cadets during the fall, winter, and spring quarters. The laboratory is designed so that the individual student can demonstrate his progressive ability in individual and group drill. Progressive and extensive practice in voice and command, unit formations, exercise of command, bearing, and posture is emphasized. Assists in identification and development of individual leadership traits and qualities of character.

NAVAL SCIENCE

(Naval ROTC)

GENERAL INFORMATION

The Naval Reserve Officers' Training Corps (NROTC) offers the opportunity for qualified young men to earn commissions as Navy or Marine Corps officers while completing the requirements for a University degree. Two programs, the *Scholarship NROTC Program* and the *Contract NROTC Program*, are offered and are described below. A commission as a Navy or a Marine Corps officer may be earned in either program. Those electing a Navy commission are normally commissioned as "line" officers. However, about 3 months prior to graduation an NROTC student may request a commission as a Supply Corps or as a Civil Engineer Corps officer. A few such commissions are granted each year. Those who are commissioned as "line" officers may request duty assignments in areas such as: general shipboard duty, nuclear power training, submarine training, and flight training. Additionally, a small number of officers may be granted a delay in reporting for active duty in order to continue their studies to earn an advanced degree. Those who request and are selected for training for a Marine Corps commission begin the Marine Option Sequence at the start of their junior year at the University.

Scholarship NROTC Program—Regular Commission

Since 1926 the Naval Reserve Officers' Training Corps has offered the opportunity for young men to qualify for commissions in the U.S. Naval Reserve. Following World War II, however, with a demand for a greater number of Regular officers, it was decided to offer commissions in the Regular Navy and Marine Corps to NROTC graduates rather than create a second Naval Academy. The Scholarship NROTC Program has been designed to educate and train qualified young men for careers as commissioned officers in the Regular Navy and Marine Corps. Only men reasonably disposed to making the Navy a career should plan to enter the Scholarship Program. Applications for this program must be submitted prior to mid-November of the year preceding the college freshman year (or the sophomore year in the case of a 5-year college program). Successful applicants are appointed Midshipmen, U.S. Naval Reserve, by the Secretary of the Navy, and are granted compensations and benefits authorized by law for a period not to exceed 4 years. During the period of college training the Navy pays tuition, provides textbooks for all naval science and other University courses, pays all fees of an instructional nature and a subsistence allowance of \$50 per month. Additionally, for about 6 weeks each summer the Scholarship NROTC student participates in summer training aboard one of the Navy's ships or at a Naval Base or a Naval Air Station. During this period the student receives transportation, food, clothing, housing, medical care, plus a salary of approximately \$210 per month, the equivalent of 50 percent of

the base pay of an Ensign. Regular NROTC students are required to serve 4 years on active duty following commissioning. Instructions for submitting applications for the Scholarship Program are available at the NROTC offices in the Armory.

Contract NROTC Program—Reserve Commission

The Contract NROTC Program is designed for those college students who wish to serve their country for a specified period as Reserve officers in the Navy or Marine Corps. Students are selected for this program by the professor of naval science at the University of Minnesota from those students who apply for the program and have been selected for admission by the University or who have 4 years of academic work yet to complete for a baccalaureate degree. These students enter into a mutual service agreement with the Secretary of the Navy in which they agree to take certain naval science courses, University-taught courses, naval science laboratories, and one summer training period of about 6 weeks each. They enlist in the Naval Reserve prior to commencement of the advanced course of the junior and senior year. The Navy provides all required uniforms, naval science textbooks and pays the advanced course student \$50 a month subsistence allowance during the junior and senior years. Additionally, during the summer training periods the student receives transportation, food, clothing, housing, medical care, plus a salary of approximately \$210 per month, the equivalent of 50 percent of the base pay of an Ensign. Upon graduation and completion of the program the student is commissioned as an Ensign in the U.S. Naval Reserve or as a Second Lieutenant in the U.S. Marine Corps Reserve and will serve on active duty for 3 years. Instructions on how to apply for the program are available at the NROTC offices at the Armory.

Naval Science Courses

The NROTC Program consists of a 4-year naval science course which a student schedules in the same manner as any other course in his academic program. Naval science courses are under the supervision of the University of Minnesota and the Department of the Navy, and are taught by civilian faculty and Navy and Marine Corps officer instructors. These courses carry full University academic credit as electives and are applicable toward fulfilling requirements for a University degree.

CURRICULUM

The 4-year naval science curriculum leads to a commission in the naval service as an Ensign, USN or USNR, or a Second Lieutenant, USMC or USMCR.

All midshipmen study the first- and second-year courses shown below. During the third and fourth years, a midshipman studies the courses of the Navy Sequence or the Marine Corps Sequence.

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Male students who are not midshipmen of the NROTC unit but who wish to enroll in a naval science course as an elective may do so after gaining the consent of the instructor.

All courses consist of 3 classroom hours and 2 hours of drill/laboratory per week.

DESCRIPTION OF COURSES

LOWER DIVISION COURSES

(All NROTC Students)

1ST YEAR

- 1-103f (11). NAVAL ORIENTATION.** (3 cr; prereq #)
Naval customs. Organization for national security. Naval leadership. Forms of modern naval warfare.
- 1-104w/1-105s (12-13). SEA POWER.** (3 cr each; prereq #)
Survey of sea power's influence on history from ancient times to present.

2ND YEAR

- 0-200f (24). SEMINAR: MARITIME AFFAIRS.** (1 cr; prereq #)
Conducted in laboratory sessions approximately 1 hour per week.
- 0-201w (25). SEMINAR: MARITIME AFFAIRS.** (2 cr; prereq #)
Conducted in laboratory sessions approximately 2 hours per week.
- 0-202s (26). LEADERSHIP LAB.** (No cr; prereq #)

UPPER DIVISION COURSES

Navy Sequence

3RD YEAR

- 3-303f (57). NAVAL OPERATIONS: INTRODUCTION TO NAVIGATION.** (3 cr; prereq #)
Piloting and dead reckoning. Rules of the nautical road.
- 3-304w (58). CELESTIAL NAVIGATION.** (3 cr; prereq trigonometry and #)
Theory and practical application of navigating using the stars, moon, and planets. Relative motion and naval maneuvering.
- 3-305s (59). NAVAL OPERATIONS.** (3 cr; prereq #)
Electronic navigation and operations analysis. Loran, radio, and modern navigation systems. A scientific approach to decision making.

4TH YEAR

- 3-400 (71). PRINCIPLES OF NAVAL SYSTEMS I.** (3 cr; prereq #)
Principles of selected phases of the defense control problem including propulsion systems, trajectories, flight paths, and fundamentals of radar, sonar, and computers.

- 3-401 (72). PRINCIPLES OF NAVAL SYSTEMS II.** (3 cr; prereq #)
The dynamics of the basic components of defense control systems are investigated and stated as transfer functions. Design and testing of components including warheads, fuzes, guidance, and control. Includes procedures for evaluating defense systems effectiveness and hit probability.
- 3-402 (73). PRINCIPLES OF NAVAL MANAGEMENT.** (3 cr; prereq #)
Uniform Code of Military Justice. Precepts and practices of naval leadership, including management psychology, individual differences, and group dynamics.

Marine Corps Sequence

3RD YEAR

- 3-350 (54). EVOLUTION OF ART OF WAR I.** (3 cr; prereq #)
Evolution of warfare from earliest recorded times to and including Mexican War.
- 3-351 (55). EVOLUTION OF ART OF WAR II.** (3 cr; prereq #)
Civil War campaigns, World Wars I and II, plus consideration of U.S. military and foreign policy.

4TH YEAR

- 3-450 (64). AMPHIBIOUS WARFARE I.** (3 cr; prereq #)
Evolution of current amphibious warfare techniques and doctrine from Gallipoli to Korean War.
- 3-451 (65). AMPHIBIOUS WARFARE II.** (3 cr; prereq #)
Introduction to doctrinal techniques and present concepts to include planning, embarkation, rehearsal, support, and logistics.

3RD OR 4TH YEAR

- 3-500. FLIGHT INSTRUCTION PROGRAM.** (3 cr; prereq Δ)
This program is based upon Federal Aviation Regulations, Part 141, and consists of 50 hours of ground instruction and 35 hours of flight instruction leading to FAA certification as a private pilot. Instruction includes practice on federal aviation regulations, aircraft instruments, meteorology, radio aids, air navigation, flight theory, and other subjects pertaining to the safe and efficient operation of aircraft.

AEROSPACE STUDIES

(Air Force ROTC)

GENERAL INFORMATION

The Air Force ROTC program at the University of Minnesota enables qualified young men and women to pursue a course toward a commission as an officer in the U.S. Air Force while they are completing requirements for a degree from the University. Students blend Air Force ROTC course work with their college curriculum and are commissioned as second lieutenants in the United States Air Force upon graduation. Women cadets are eligible to participate in all phases of the program except those that lead to the pilot and navigator occupations.

The emphasis in the Air Force ROTC curriculum is on the development of students' leadership and management skills and on the improvement of their ability to communicate. Students also receive a solid background concerning the nature and purpose of the military. Since Air Force ROTC is a department of the University of Minnesota, students register for Air Force ROTC courses as one does for any other University course. Registration is accomplished in Room 3 of the Armory.

Programs

The Air Force ROTC department at the University offers both a 4-year and a 2-year commissioning program. Under the 4-year program students register for Air Force ROTC in their freshman year and complete a 4-year academic curriculum including a 4-week summer camp between their sophomore and junior years. Students electing to pursue the 2-year program complete the last 2 years of Air Force ROTC after attending a 6-week camp during the summer immediately preceding their last 2 years at the University. The 2-year program is available to both graduate and undergraduate students.

Admission Requirements

Four-Year Program:

1. Be a citizen of the United States.
2. Be of sound physical condition.
3. Be of sound moral character.
4. Be at least 17 years old upon entering the program. Applicants qualified for flying training must be able to complete graduation requirements and be commissioned prior to reaching 26½ years of age. Other applicants must be able to complete graduation requirements and be commissioned prior to reaching age 30.

In addition to the above, prior to entering the last 2 years of Air Force ROTC, the student must:

1. Pass the Air Force Officer Qualifying Test (AFOQT).
2. Pass an air force medical examination.
3. Be approved by an interview board.
4. Successfully complete the 6-week summer field training course (2-year-program applicants only).

Financial Benefits

Students receive \$50 per month plus all Air Force ROTC textbooks and uniforms during their last 2 years of ROTC. During their summer field training, students receive their food, clothing, housing, medical care, a transportation allowance of 6¢ per mile from their point of departure for camp, and approximately \$200 per month.

In addition, scholarships are available on a competitive basis *to students enrolled in the 4-year program only*. These scholarships cover full tuition, laboratory expenses, student services fees, and an allowance for books.

Physically qualified male cadets who are pilot candidates are provided 36½ hours of flying training conducted by a civilian flying school near the campus at no expense to themselves. Female candidates are not eligible for flying at this time.

Credits

The aerospace studies course consists of 1 hour a week attendance at lower division classes (General Military Course, or GMC) and 3 hours a week attendance at upper division classes for the last 6 quarters of Air Force ROTC (Professional Officer Course, or POC).

Aerospace studies credits may be substituted for elective credits in the College of Liberal Arts, the School of Business Administration, the College of Education, and the College of Agriculture. Aerospace studies is accepted as a minor in the College of Liberal Arts.

Active Duty Requirements

Students not programmed for flying training incur a 4-year active duty commitment. Students who will enter flying training on active duty incur a 5-year obligation after completing flying training.

DESCRIPTION OF COURSES

Note—All Air Force ROTC cadets are required to take 10 hours of Corps Training each quarter. This training is conducted at the rate of 1 hour per week as a regularly scheduled activity. Corps Training is that portion of the Air Force ROTC curriculum that centers on the Cadet Corps. It is largely planned and directed by the cadets and provides leadership experience which will improve the cadet's ability to serve as an officer in the U.S. Air Force. Students who are taking aerospace studies courses for credit only and are not members of Air Force ROTC are exempt from the Corps Training requirement.

LOWER DIVISION COURSES

WORLD POWER SYSTEMS

1-101f (31). U.S. AIR FORCE. (1 cr; prereq Δ)

A study of the doctrine, mission, and organization of the U.S. Air Force including the mission and function of U.S. strategic offensive forces.

1-102w (32). U.S. DEFENSE FORCES. (1 cr; prereq Δ)

A study of the mission and function of U.S. strategic defensive forces including aerospace and missile defense.

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- 1-103s (33). U.S. SUPPORT FORCES.** (1 cr; prereq Δ)
A study of the mission and functions of U.S. Air Force support forces with special emphasis on the support they provide the operational commands.
- 1-201f (34). DEFENSE ORGANIZATION.** (1 cr; prereq Δ)
A study of the organization and function of the Department of Defense and the role of the military relating to national policies.
- 1-202w (35). DEFENSE POLICIES.** (1 cr; prereq Δ)
Theories of general war; nature and context of limited war. Policies and strategies of the Soviet Union and China.
- 1-203s (35). DEFENSE POLICIES.** (1 cr; prereq Δ)
The role of alliances in U.S. defense policies. The elements and process of defense decision making.

UPPER DIVISION COURSES

GROWTH AND DEVELOPMENT OF AEROSPACE POWER

- 3-301f (131). DEVELOPMENT OF AIR POWER.** (3 cr; prereq Δ)
A study of the fundamentals of a nation's power, nature of war, and application of aerospace forces in support of national goals. History of air power. Seminars with oral and written reports. Emphasis on communication skill development.
- 3-302w (132). AEROSPACE POWER TODAY.** (3 cr; prereq Δ)
Analysis of the mission and organization of the Defense Establishment; aerospace concepts, doctrine, and use in relation to a nation's resources. Importance of the United States' space program. Seminars developing individual skills in research and oral reporting.
- 3-303s (133). ASTRONAUTICS AND SPACE OPERATIONS.** (3 cr; prereq Δ)
Intensive examination of space vehicle systems and ground support equipments; space exploration; orbits and trajectories; spatial environment; future development of astronautics and space operations. Seminars stressing research skills and communication techniques.

THE PROFESSIONAL OFFICER

- 3-401f (141). PROFESSIONALISM.** (3 cr; prereq Δ)
A study of professionalism including the meaning of professionalism, the foundations of military professionalism and its ethical characteristics and responsibilities, case studies in human relations, the meaning and functions of military discipline and cases in military law.
- 3-402w (142). AIR FORCE LEADERSHIP.** (3 cr; prereq Δ)
A study of leadership including the philosophy and scope of leadership. The interaction of individuals and groups in large-scale organizations. Role playing, conference and discussion methods, communication, and problem solving.
- 3-403s (143). MILITARY MANAGEMENT.** (3 cr; prereq Δ)
A study of management including the functions of the military executive; planning, organizing, directing, coordinating, and controlling. Surveys the application of management functions to the organization. Explores the management tools, concepts, practices, controls, and techniques to assure successful mission achievement.
- 3-404f,w,s (144). FLIGHT INSTRUCTION PROGRAM.** (3 cr; prereq Δ)
Ground school in conjunction with flight training of 36:30 hours leading to FAA certification as a private pilot. Includes instruction and practice on federal aviation regulations, aircraft instruments, meteorology, radio aids, air navigation, flight theory, and other subjects pertaining to the safe and efficient operating of aircraft.

HUMAN RIGHTS

The Board of Regents has committed itself and the University of Minnesota to the policy that there shall be no discrimination in the treatment of persons because of race, creed, color, sex, or national origin. This is a guiding policy in the admission of students in all colleges and in their academic pursuits. It is also to be a governing principle in University-owned and University-approved housing, in food services, student unions, extracurricular activities, and all other student and staff services. This policy must also be adhered to in the employment of students either by the University or by outsiders through the University and in the employment of faculty and civil service staff.