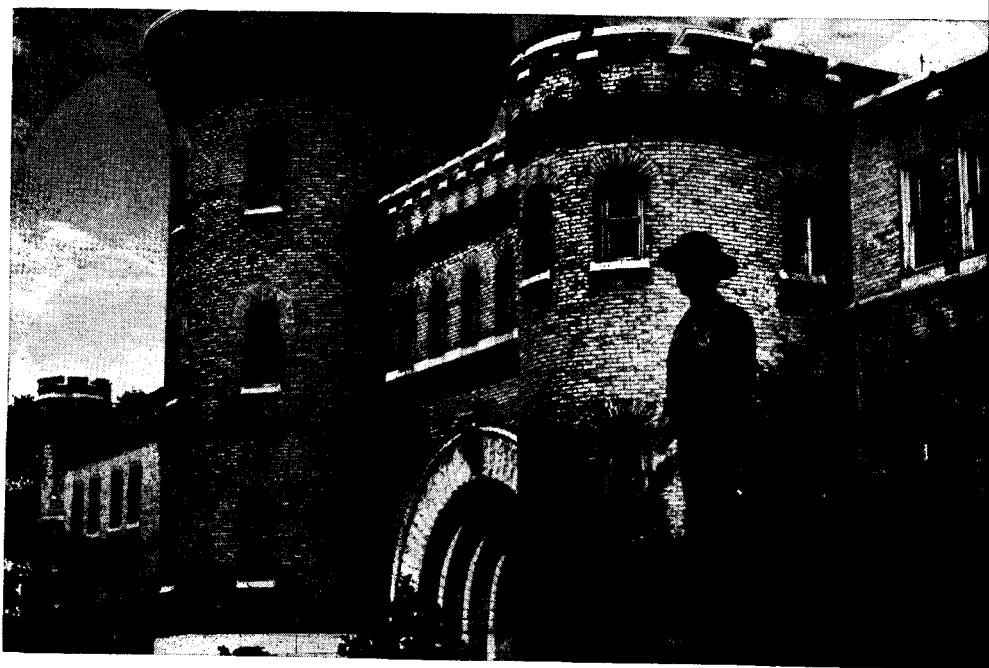


Bulletin of the

UNIVERSITY OF MINNESOTA



Army-Navy-Air Force ROTC
1959-1961

UNIVERSITY OF MINNESOTA

Board of Regents

The Board of Regents is composed of The Honorable Ray J. Quinlivan, St. Cloud, First Vice President and Chairman; The Honorable George W. Lawson, St. Paul, Second Vice President; The Honorable James F. Bell, Minneapolis; The Honorable Edward B. Cosgrove, Le Sueur; The Honorable Daniel C. Gainey, Owatonna; The Honorable Richard L. Griggs, Duluth; The Honorable Marjorie J. Howard, Excelsior; The Honorable Lester A. Malkerson, Minneapolis; The Honorable Charles W. Mayo, Rochester; The Honorable Karl G. Neumeier, Stillwater; The Honorable A. J. Olson, Renville; and The Honorable Herman F. Skyberg, Fisher.

Administrative Officers

James Lewis Morrill, President
Malcolm M. Willey, Vice President, Academic Administration
William T. Middlebrook, Vice President, Business Administration
Robert Edward Summers, Dean of Admissions and Records
Edmund G. Williamson, Dean of Students

ROTC Administration

Army

Colonel Roy K. Kauffman, U.S.A., Head of Department and Professor of Military Science and Tactics
Lieutenant Colonel Robert J. Elliott, U.S.A., Executive Officer and Assistant Professor of Military Science and Tactics

Navy

Colonel Robert O. Bowen, U.S.M.C., Head of Department and Professor of Naval Science
Commander Fred Laing, U.S.N., Executive Officer and Associate Professor of Naval Science

Air Force

Colonel Arthur W. Dern, U.S.A.F., Head of Department and Professor of Air Science
Major Frederick C. Stockdale, U.S.A.F., Executive Officer and Assistant Professor of Air Science

Army-Navy-Air Force ROTC

MILITARY SCIENCE AND TACTICS

(Army ROTC) - 10

GENERAL INFORMATION - 11

Military science and tactics is the Army ROTC program offered at all the nation's land-grant colleges, including the University of Minnesota. The purpose of this program is to develop reserve officers for the Army Officers Reserve Corps from among qualified university students, and to supplement the United States Military Academy as a source of Regular army officers.

The Reserve Officers Training Corps is not a direct component of the Army. It does, however, play 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 - 12

At the University of Minnesota, military science and tactics is an elective 4-year college course which the student may schedule in the same manner as any other elective course in his curriculum. The program, although laid out by the Army and taught by Army instructors, is administered by the University, and academic credits applicable to graduation are given in most colleges of the University.

Reserve Commission

Completion of the 4-year course qualifies the student for appointment as a second lieutenant, Army Reserve, concurrently with the granting of his academic degree. The appointment includes an obligation to serve on active duty for 2 years or a period of 6 months for training depending upon individual desires and the current requirements of the Army for personnel. Further reserve duty as an officer in an inactive status up to 7½ years is governed by the Reserve Forces Act of 1955 in its application to all male citizens. The student is draft-deferred while enrolled in Army ROTC.

Regular Army Commission

Appointments in the Regular Army are made annually from selected ROTC graduates. Further information concerning this opportunity may be obtained from the Department of Military Science and Tactics.

Obligations

Enrollment in basic Army ROTC 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 agree to complete the remaining 2 years of

ROTC, if he continues to be enrolled in the University, and to accept a commission as second lieutenant, if offered, upon completion of the course.

Allowances

All texts and uniforms are furnished by the department. There is no expense attached to the course. In addition, students who have been accepted for Military Science III and IV receive federal pay of \$27 per month during the 2 academic years, and \$75 per month during the 6-week summer camp. This financial assistance is in addition to any benefits received under the "GI Bill."

Qualifications for Enrollment

The following qualifications for enrollment for commission are required. Students who do not meet these qualifications may enroll in the course and receive University credit but will not receive financial benefits or a Reserve commission. The student must:

1. Be enrolled as a regular student at the University.
2. Be a male citizen of the United States.
3. Be less than 23 years of age for enrollment in Military Science I.
4. Be less than 27 years of age at the time of initial enrollment in Military Science III.
5. Have sufficient time remaining in college curriculum to complete the ROTC course.
6. Be physically qualified as determined by physical examination for University enrollment. For Military Science III, pass Army physical examination.

Transfer of ROTC Credits

Students who have had ROTC at other institutions on the college level will be given credit for such prior ROTC successfully completed. Students who have completed ROTC at military schools and high schools will be granted such credit for ROTC successfully completed, as may be determined by each individual case.

Credit to Veterans

Veterans who have completed 12 months of honorable service in one of the Armed Services, and who are otherwise qualified, may be granted credit for Military Science I and II, and may be accepted for initial enrollment in Military Science III. Veterans who have completed 6 months and less than 12 months of honorable service may be granted credit for Military Science I.

Registration

Formal registration for military science and tactics is effected in the same manner as registration for other academic courses of the University. Students add military science and tactics to their academic program at the appropriate college registration point.

In Military Science III and IV, it is necessary that students registering for these courses secure *prior acceptance* by *personal application* at the Department of Military Science and Tactics, 108 Armory Building, Minneapolis Campus.

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 the Military Science IV year. A board composed of University authorities and members of the military staff jointly determine the student's branch. Factors considered by the board 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 and tactics is one 6-week summer camp conducted during the summer between Military Science III and IV. The camp is part of the school program and attendance is required for full course-credit and commission. Postponements for 1 year can be authorized.

Students attend camp as civilians and participate in the practical application of theoretical subjects at the University.

Students are paid traveling expenses to and from camp and in addition receive pay of \$75 per month while at camp. All accommodations and food are furnished.

DESCRIPTION OF COURSES

- 1-2-3. Military Science I.** Organization of the Army and ROTC; individual weapons and marksmanship; American military history; school of the soldier and exercise of command. (1 cr per qtr; 3 hrs per wk)
- 4-5-6. Military Science II.** Map and aerial photograph reading; crew-served weapons and gunnery; school of the soldier and exercise of command. (1 cr per qtr; prereq 1-2-3; 3 hrs per wk)
- 151-152-153. Military Science III.** Leadership; military teaching methods; organization function, and missions of the arms and services; small unit tactics and communications; school of the soldier and exercise of command. (3 cr per qtr; prereq 4-5-6; 5 hrs per wk)
- 154-155-156. Military Science IV.** Operations, including command and staff; estimate of situation and combat orders, military intelligence, the military team, and training management; logistics, including supply and evacuation, troop movements, and motor transportation; military administration and personnel management, including military justice; service orientation, including the role of the United States in world affairs and the present world situation; leadership and officer indoctrination; school of the soldier and exercise of command. (3 cr per qtr; prereq 151-152-153; 5 hrs per wk)

NAVAL SCIENCE

(Naval ROTC)

GENERAL INFORMATION

The naval career is one of service and dedication to country, a career of traditional honor and prestige. Few if any professions offer greater opportunities for education and growth, challenging service, travel, inspiring experience, and adventure—near and far, afloat and ashore. A naval officer knows that, as a leader in the Naval Service, his duties are vitally important to the security of our country and our people. This knowledge is a source of deep gratification to the aspiring and conscientious officer. In comparing himself to members of other professions, the naval officer rightly concludes that his rewards, both spiritual and material, place him in an enviable position. Not only is he honored with assignments of challenging authority and responsibility, but also he has the utmost satisfaction of being associated with America's finest men—the men of the United States fleets.

The Naval Reserve Officers Training Corps (NROTC) was first established in 1926 to offer certain college students the necessary naval science courses required to qualify them for commissions in the Naval Reserve. NROTC units were established in six universities. The initial program was highly successful and during the years preceding World War II was expanded to include additional universities and colleges. During World War II, the United States Navy expanded from a manpower force of 100,000 officers and men in 1938 to over 3½ million in 1945. The United States Navy became the world's leading sea power, and the requirement for a larger Regular career officer corps became apparent. The United States Naval Academy, lacking ground to expand its facilities, was unable to provide the number of career officers necessary to man the new Navy. As a result of thorough study by distinguished naval officers, civilian educators, and members of Congress, the mission of the NROTC was greatly expanded in 1946 to encompass a new program, the Regular Naval Reserve Officers Training Corps. This program was established to produce well-trained and educated junior officers to supplement the output of the United States Naval Academy. The original NROTC concept of 1926 continued as a Reserve officer procurement program and is referred to as the Contract NROTC.

Students enrolled in the Naval ROTC lead approximately the same life as their civilian contemporaries. In the same manner they make their own arrangements for board and lodging. Likewise, they may pursue any of the University extracurricular activities which do not interfere with their naval science requirements. They may obtain outside employment on the same basis, provided they are able concurrently to maintain the high scholastic requirements. They wear the uniform when attending drills and other ceremonies and while engaged in summer training cruises.

Regular Naval ROTC Students—Regular Commission

For those applicants who seek the opportunity for a career in the Regular Navy or Marine Corps, the Navy offers the Regular Student status. The Regular NROTC is under the immediate supervision of the chief of naval personnel of the Navy Department. It is a college program for the training and education of Regular naval officer candidates. Successful applicants are appointed Midshipmen, United States Naval Reserve, by the Secretary of the Navy and are granted the compensations and benefits authorized by law for a period not exceeding 4 years. The Navy pays tuition, cost of textbooks, other fees of an instructional nature, plus retainer pay of \$50 per

month. During drill periods and summer cruises, the midshipmen wear government-furnished uniforms. Applications for this program usually must be submitted prior to mid November of the year preceding entry into the Regular NROTC program.

Contract Naval ROTC Students—Reserve Commission

The Contract program is available for those students who do not expect to make a career in the Navy or Marine Corps but who do wish to be available to serve their country in time of emergency as a Reserve officer. Contract students are selected for enrollment in the Naval ROTC by the professor of naval science from among those students already in attendance at, or selected for admission by, the University and who plan to complete at least 4 years of academic work. Contract students are civilians who enter into a mutual contract with the Department of the Navy, in which they obligate themselves to take certain naval science courses and drills and one summer training cruise. In return, the Navy provides the required uniforms, gives them a subsistence allowance of about \$27 per month during their junior and seniors years, and offers a Reserve commission upon graduation.

Active Duty Requirements

NROTC graduates receive commissions either in the Navy Line, or the Navy Supply Corps, or the Marine Corps. A few are commissioned in the Navy Civil Engineer Corps. Navy Line officers are eligible to assume military command of ships or stations, being in line of command. Naval aviators are Line officers.

Regular NROTC students are currently required to serve 4 years on active duty after commissioning. Contract students are required to serve 2 years on active duty after commissioning.

Naval Science Courses

The NROTC program constitutes 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 Department of the Navy and the University, and are taught by naval (Navy and Marine Corps officers) instructors. These courses carry full University academic credit as electives and are applicable toward the requirements for a University degree and graduation.

CURRICULUM

The 4-year naval science curriculum leads to 1 of 3 commissions in the naval service:

1. Ensign (Line), U.S.N. or U.S.N.R.
2. Ensign (Supply Corps), U.S.N. or U.S.N.R.
3. Second Lieutenant, U.S.M.C. or U.S.M.C.R.

All midshipmen study the first- and second-year courses shown below. During the third and fourth years, a midshipman studies the courses of the Line Sequence, the Supply Corps Sequence, or the Marine Corps Sequence, according to the type of commission he desires.

Male students who are not midshipmen of the NROTC unit but who wish to enroll in a naval science course as an elective may have the prerequisites waived upon application to the professor of naval science, 203 Armory Building.

All courses consist of 3 classroom hours and 2 hours of drill/laboratory per week. The student receives 3 college credits for the completion of each course. Fall quarter classes are indicated by "f," winter quarter by "w," and spring quarter by "s."

DESCRIPTION OF COURSES**LOWER DIVISION COURSES**

(All NROTC students)

1ST YEAR

- 11f. Naval Orientation.** Organization, functions, and mission of the Navy and the Department of Defense; duties and responsibilities of a naval officer; types and characteristics of ships. (3 cr)
- 12w. Sea Power.** Naval history and sea power; fundamental concepts of sea power; principles of naval warfare; global geography, and evolution of sea power. (3 cr)
- 13s. Sea Power.** Naval history and sea power; history of the United States Navy; evolution of sea power; seamanship. (3 cr)

2ND YEAR

A psychology course must be taken during fall quarter by second-year NROTC students.

- 22w. Naval Weapons.** (3 cr)
- 23s. Naval Weapons.** (3 cr)

UPPER DIVISION COURSES**I. Line Sequence****3RD YEAR**

- 51f. Naval Engineering.** (3 cr)
- 52w. Naval Engineering: Introduction to Navigation.** (3 cr)
- 53s. Celestial Navigation.** (3 cr)

4TH YEAR

- 61f. Naval Operations.** (3 cr)
- 62w. Naval Operations; Leadership.** (3 cr)
- 63s. Leadership.** (3 cr)

II. Supply Corps Sequence**3RD YEAR**

- 57f. Organization and Logistics; Naval Finance.** (3 cr)
- 58w. Naval Accounting; Basic Supply Afloat.** (3 cr)
- 59s. Advanced Supply Afloat.** (3 cr)

4TH YEAR

- 67f. Ships Store Afloat; Clothing and Small Stores.** (3 cr)
- 68w. Commissary.** (3 cr)
- 63s. Leadership.** (3 cr)

III. Marine Corps Sequence

3RD YEAR

- 54f. Evolution of the Art of War I. (3 cr)
- 55w. Evolution of the Art of War II. (3 cr)
- 56s. Modern Basic Strategy and Tactics. (3 cr)

4TH YEAR

- 64f. Amphibious Warfare I. (3 cr)
- 65w. Amphibious Warfare II. (3 cr)
- 66s. Leadership. (3 cr)

For additional information, write, telephone, or visit: Commanding Officer and Professor of Naval Science, Naval Reserve Officers Training Corps, Room 203 Armory, University of Minnesota, Minneapolis 14. Telephone: FEderal 2-8158, ext. 6843 or 6844.

AIR SCIENCE

(Air Force ROTC)

GENERAL INFORMATION

Air Force Reserve Officers Training Corps is a 4-year course open to all regularly enrolled male students who meet physical, moral, age, and citizenship requirements. The course is designed to meet University educational standards and to train the student in military subjects so that he may qualify for a Reserve commission in the United States Air Force.

The student will not specialize in any one military career field, but instead will take subjects aimed at giving a well-rounded course of study which provides a complete background of officer training. He will be given an Air Force specialty classification that corresponds to his university academic major. Every effort is made by the Air Force classification and assignment system to utilize this specialty training.

Air Science IV cadets in category I (pilot) are required to participate in a flight instruction program in order to determine whether they possess attributes which are desirable for pilot training. This program also affords qualified students the opportunity to attain a private pilot's license in light aircraft at no expense to the cadets.

The Air Force ROTC student is not in the military service and is therefore not subject to the Uniform Code of Military Justice.

Admission

The Air Force ROTC is a department in the University of Minnesota and is a University course. The student enrolls in ROTC at the time of registration in his college as he does for any other University course. Registration is accomplished at the campus Armory.

The following qualifications for enrollment are required. The student must:

1. Be enrolled as a regular student in the University of Minnesota.
2. Be a male citizen of the United States.
3. Not have reached 23 years of age for enrollment in Air Science I nor 25 years of age for enrollment in Air Science III.

Benefits

Air Force ROTC is a 4-year program composed of the Basic course (first 2 years) and the Advanced course (last 2 years) plus a 4-week summer camp at an Air Force base during the summer following the third year.

Students enrolled in the Basic course will receive all textbooks and a uniform free of charge. Students enrolled in the Advanced course will receive all textbooks free of charge and a subsistence allowance of \$27 per month. Each Advanced student also will receive an Air Force officer's blue uniform which becomes his property upon graduation.

During the summer encampment he will receive food, housing, medical care, clothing, transportation, and pay at the rate of \$78 per month.

Credits

Air Force ROTC credits may be substituted for humanities credits in the Institute of Technology; for elective credits in the College of Education, the College of Science,

Literature, and the Arts, and the College of Agriculture, Forestry, and Home Economics. Air science is accepted as a minor in the College of Science, Literature, and the Arts.

The Reserve Commission

Each student who successfully completes the Air Force ROTC course and graduates from the University of Minnesota will be eligible for an appointment as second lieutenant in the United States Air Force Reserve. Upon receipt of such appointment the individual will be required, under the Selective Service Act and current Air Force regulations, to serve on active duty with the Air Force—60 months required for those qualified for navigation and pilot training, 36 months for all others unless sooner released. Those serving 3 years are required to remain active in a Reserve component for a period of 3 additional years in the Air Force Reserve on an inactive status, thereby making a 6-year total obligation.

Field of Specialization

There is no specialty training in the Air Force ROTC program. Students get their specialty training in the college academic major. The Air Force supplies the general officer training.

Students are normally assigned an Air Force specialty classification which closely parallels their college major. Upon entrance into active duty, it is the policy to assign newly commissioned personnel to specialty schools for further training.

DESCRIPTION OF COURSES

- 31-32-33. Air Science I: Foundations of Air Power.** General survey of air power designed to provide the student with understanding of elements and potentials of air power. Includes fundamentals of air power; military air powers of the world; military research and development; air vehicle industries; airlines and airways; aeronautical science; general aviation; elements of an aircraft; aerodynamics; guidance, control, and navigation and propulsion systems; space flight; military instruments of national security; and professional opportunities in the United States Air Force. (1 cr per qtr)
- 34-35-36. Air Science II: Foundations of Air Power.** Survey of the development of aerial warfare with emphasis on principles of war; concepts of employment of forces; changing weapons systems; treatment of aerial warfare including targets, weapons, aircraft, and missiles; bases and facilities; and aerial operations. (1 cr per qtr; prereq 31-32-33)
- 131-132-133. Air Science III: Air Force Officer Development.** Knowledge and skills required of a junior staff officer in the Air Force. Includes staff organization and functions; communicating; instructing; problem solving techniques as applied to Air Force staff and command problems; basic principles of leadership psychology; problems in leadership and management; application of the principles and theories of problem solving and leadership to simulated and real Air Force problems, and the Military Justice System. (3 cr per qtr; prereq 34-35-36)
- 134. Air Science IV: Weather and Navigation.** Weather and navigational aspects of airmanship, such as temperature, pressure, air masses, precipitation, weather charts, navigational charts, and dead reckoning navigation; globes and maps in the air age world; and the geography of climate. Also includes military aspects of world political geography; factors of power; and geographic influences upon

political problems with a geopolitical analysis of the strategic areas. (3 cr per qtr; prereq 131-132-133)

135-136. Air Science IV: International Relations and the Air Force Officer. Major factors underlying international tensions—nationalism, imperialism, and communism. Attempts to alleviate these tensions—balance of power concepts, League of Nations, United Nations, and regional security organizations. Rise of the two superpowers—United States and USSR. Also, study of material to help the cadet make a rapid effective adjustment to active duty as an officer in the United States Air Force. (3 cr per qtr; prereq 134)