

RESERVE OFFICERS TRAINING CORPS

For more than a century, military training has been offered at Oregon State University. Fulfilling a provision of the Morrill Act of 1862, which gave Corvallis College its first public support, a Cadet Corps was organized about 1872 and was continued thereafter under the direction of a U.S. Army officer assigned to the faculty. Cadets trained in the early years served as officers in the Spanish-American War.

On June 3, 1916, Congress passed an act which brought about the reorganization of the Cadet Regiment into a Reserve Officers Training Corps (ROTC) unit in 1917. In World War I and II and in subsequent international conflicts, OSU graduates have served with distinction and have given proof of the high quality of their preparation and the value to the nation of such military instruction.

At the end of World War II, on September 17, 1945, the Secretary of the Navy commissioned the Department of Naval Science (NROTC) on this campus to provide for the training of both Navy and Marine Corps officers. On July 1, 1949, the U. S. Air Force activated an AFROTC unit that is now called the Department of Aerospace Studies. Oregon State is now one of the 30 or so colleges and universities that offer education for all three military departments.

Originally, two years of military science and tactics were required of all able-bodied male students, but since 1962, ROTC has been voluntary. Since 1965, two-year programs have been available for students who have finished two years of college but have not taken ROTC previously.

As opportunities for women to serve as officers in the armed forces grow, opportunities for women to participate in ROTC programs expand. Women have long been eligible to take ROTC course work for credit. Since 1970 they have been enrolled as

cadets in Air Force ROTC and since 1973 have also been enrolled as cadets in military and naval science.

Mission and Objectives. The ROTC selects and prepares young men and women, through a program of instruction coordinated with the students' normal academic curriculum, to serve as officers in the Regular and Reserve components of the Army, Navy, Air Force, and Marine Corps. Each of the units on this campus strives to develop in students a capacity for leadership, to develop them morally, mentally, and physically, and to provide them with the basic working knowledge required of a young officer.

Uniforms and allowances. Students in each of the units receive uniforms to be worn at drill periods and on special occasions. During the final two years, students receive \$100 per month subsistence pay for up to 20 months. Travel to and from any summer camps or cruises is paid. While at camp or on cruise, the members receive food and quarters at government expense in addition to basic pay. See the individual sections for further information on the various camps and cruises. Those selected for the scholarship programs receive tuition, books, and fees plus \$100 per month subsistence pay for up to 40 months.

Flight training. Eligible students in Air Force ROTC participate in flight training during their senior year. This training, provided at government expense, leads to flight training as commissioned officers.

How to enroll. See the Army, Navy, or Air Force sections for enrollment details for the various ROTC programs. All three departments have people available throughout the year during normal school hours to answer any inquiries regarding the ROTC programs.

Department of Aerospace Studies

Personnel detailed from U.S. Air Force as of January 1979

Professor J. K. McPherson, Commander

Associate Professor Major Foster

Assistant Professors Captain Guenther, Captain Randerson

Instructors Master Sergeant Krause; Technical Sergeant Little; Staff Sergeant Dykes

Air Force ROTC allows University students to compete for commissions as officers in the United States Air Force. Opportunities exist for well-qualified students from all fields, with scholarship opportunities especially bright for students with scientific, engineering, and mathematics-related majors. The Air Force has a particular interest in those young people interested in aviation careers, as either pilots or navigators. There are both two- and four-year programs. All those commissioned serve on active duty.

Four-Year Program. Students register for AS I (AS 111) in the fall term of their freshman year and continue throughout the four-year curriculum. The curriculum consists of 30 credit hours in Aerospace Studies I (AS 111,112,113); Aerospace Studies II (AS 211,212,213); Aerospace Studies III (AS 311, 312,313); AS 314 (four weeks field training); and Aerospace Studies IV (AS 411,412,413).

Previous military experience (ROTC, Academy, or military service) may allow the Professor of Aerospace Studies to waive all or part of the General Military Course (freshman and sophomore years) for students enrolled in the four-year AFROTC program.

Two-Year Program. This program provides an opportunity for students who did not elect the four-year ROTC program upon entering college. Application is made early in the fall term of the student's sophomore year. Processing is accomplished during the winter term and selections are made in spring term of the sophomore year.

Selectees attend mandatory six-week summer field training (AS 214) prior to the junior year of college. Applicants must have two years remaining in college after the six-week field training. This may be undergraduate or graduate work or a combination.

The curriculum is 24 credit hours in AS 214 (six-week field training); Aerospace Studies III (AS 311,312,313); and Aerospace Studies IV (AS 411,412,413).

Commitments. Nonscholarship cadets incur no obligation during the first two years in AFROTC. The student agrees to accept a commission, if offered, only after enrolling in AS 311. Scholarship recipients agree to accept a commission upon accepting the scholarship. Upon commissioning, pilots incur an obligation of six years after completion of pilot training at an Air

Force base; navigators incur a five-year obligation after initial training; all others agree to serve for four years following commissioning.

Scholarships are available on a competitive basis for qualified students. High school seniors interested in applying should consult their high school counselors in their junior year or early in their senior year. University cadets already in the four-year AFROTC program compete at the end of each term in the freshman and sophomore years on the basis of grade-point average, Air Force Officer Qualifying Test scores, and an interview board's evaluation. Students receiving scholarships must be able to complete the Air Force ROTC program, receive a degree, and be commissioned by age 25. Each scholarship covers the cost of full tuition, laboratory fees, incidental expenses, textbooks, and an allowance of \$100 a month.

Field Training. Under either Air Force ROTC program the student takes only one summer field training session. The two-year program requires six weeks of field training; the four-year program requires four weeks. Students are paid varying amounts for each of these training periods. This pay is in addition to travel pay to and from the field training location.

Standards. Cadets must be U. S. citizens of sound physical condition and high moral character. Before graduation, cadets must complete a three-credit hour course in English composition and another in mathematical reasoning. They must complete ROTC and receive a degree prior to age 26½ if designated for flight training, or otherwise prior to age 30, to be recommended for commissioning as Air Force officers. Up to age 35 veterans may request an age waiver.

Further Educational Opportunities. After completion of AFROTC requirements, advanced degrees may be sought by delaying active duty commitments. Some commissioned officers continue advanced studies with the Air Force Institute of Technology. Special provisions are available for medical, law, and meteorology students. For further information, contact the Air Force ROTC, 229 Gill Coliseum.

Lower Division Courses

AS 111,112,113 Aerospace Studies I

1 hour each

1 ① 1 ①

General Military Course (GMC): The doctrine, mission, and organization of the USAF; U.S. strategic offensive and defensive forces, their mission, function, and employment of weapons; civil defense; aerospace defense; missile defense; U.S. general purpose and aerospace support forces; the mission, resources, and operation of tactical air forces, with special attention to limited war; review of Army, Navy, and Marine Corps general purpose forces. Leadership laboratory: leadership, discipline, tradition, and courtesies of the service. Need not be taken in order.

AS 211,212,213 Aerospace Studies II

1 hour each

1 ① 1 ①

General Military Course (GMC): The development of air power; changes in the nature of military conflict; development of air power into an element of national security; development of concepts and doctrine governing employment of air power; technology affecting growth and development of air power; the changing mission of the defense establishment, with emphasis on the U.S. Air Force; air power as employed in military, non-military, and strategic operations. Leadership laboratory. Need not be taken in order.

AS 214 Field Training 6 hours summer

Six-week training (for two-year program applicants); education and training comparable to that received by the four-year program cadet during his freshman (AS I) and sophomore (AS II) years on campus and his four-week field training period (AS 314). Conducted at an Air Force base. Prerequisite: qualify for POC.

Upper Division Courses

AS 311,312,313 Aerospace Studies III

3 hours each

3 ① 1 ①

Professional Officer Course (POC): Professionalism; leadership and management theory, practice, tools, and controls; responsibilities; communication skills; human relations; personnel policies; channels of communication; problem solving. Leadership laboratory to continue officer development. Must be taken in order.

AS 314 Field Training 6 hours summer

Four-week field training (for four-year program students); supplements campus courses in developing leadership and discipline. Mission, organization, and functions of an Air Force base; marksmanship, survival, and physical training; aircrew and aircraft indoctrination; orientation on specific opportunities in career fields. Conducted at an Air Force base. Prerequisite: AS II or III.

AS 350 Aerospace Studies

3 hours spring

2 ②

Principles of flight, weather, and navigation; aerodynamic reactions; flight computers; flight planning; and associated federal air regulations. Prerequisite: AS 312.

AS 405 Reading and Conference

Terms and hours arranged by instructor

Supervised individual work. Consent of instructor required.

AS 411,412,413 Aerospace Studies IV

3 hours each

3 ① 1 ①

Professional Officer Course (POC): National security forces in contemporary American society; military justice; civil-military relations and environmental context in which U.S. defense policy is formulated and effected; role of the professional military leader-manager in a democratic society; social attitudes towards the armed forces; requisites for maintaining adequate national security forces; political, social, economic constraints on national defense structure; impact of technological and international developments on strategic preparedness and the overall policy-making process. Leadership laboratory. Prerequisite: AS III. Must be taken in order.

Department of Military Science

Personnel detailed from U.S. Army as of January 1979

Professor Lieutenant Colonel Curtis W. Rosler (Armor),
Commander

Associate Professor Major Minihan (Field Artillery)

Assistant Professors Captains Brittain (Infantry), Irish (Adjutant General Corps), Roehl (Armor)

Instructors Sergeant Major Woods; Sergeant First Class Seaberg; Staff Sergeant Baker

Instruction in the Military Science Department is designed to produce junior officers for the United States Army in both the reserve and regular components. The basic military educa-

tion in this Department provides, in conjunction with the student's regular course of study, the background and attributes essential to the Army officer.

The Army ROTC commissioning program is comprised of (1) either the Basic Course (a combination of classroom instruction and outdoor adventure training) or Basic Summer Camp (six weeks at Fort Knox, Kentucky) or the Summer Basic Orientation Course; (2) the Advanced Course; (3) the Advanced Summer Camp; and (4) authorized electives from other schools of the University. Upon completion of the four-year military science course, the student will have received up to 33 credit hours, all of which are reflected in his or her University grade-point average.

The Basic Course is characterized by multiple entry points and a flexible program of instruction which can be tailored to each cadet's desires. Cadets generally follow one of the following tracks: (1) freshman classes (one credit per term) and sophomore classes (two credits per term) plus one Cadet Corps activity per term; (2) outdoor adventure and skill developing activities scattered over the freshman and sophomore years, one Cadet Corps activity per term, and a three credit class spring term of the sophomore year; (3) six weeks of Basic Summer Camp (six credits) at Fort Knox, Kentucky, at government expense, with pay; (4) the Summer Basic Orientation Course (six credits), combination of classroom instruction and field training.

The Advanced Course is less flexible and taught in much greater depth. Cadets receive three credits per term their junior and senior years.

Each student enrolled in the Advanced Course of the ROTC must: (1) Be selected by the Professor of Military Science and the President of Oregon State University. (2) Be able to complete requirements for commission before reaching 28 years of age (may be waived for applicants who have demonstrated exceptional ability). (3) Have successfully completed any survey and general screening tests prescribed. (4) Have completed the Basic Course or received credit in lieu thereof for previous honorable active service in the Army, Navy, Marine Corps, Coast Guard, or Air Force. (5) Be a citizen of the United States. (6) Be physically qualified under standards prescribed by the Department of the Army. Due allowances are made for those defects that are correctable before the student becomes eligible for appointment as a commissioned officer. (7) Be accepted by Oregon State as a regularly enrolled student. (8) Execute a written agreement with the United States to complete the Advanced Course, contingent upon remaining in college; attend summer camp at time specified unless deferred for cogent reasons; accept a commission if offered; and satisfy the service obligation after graduation.

The Advanced Summer Camp, normally attended between the cadet's junior and senior years, lasts six weeks, and six credit hours are awarded for it by the University.

Electives. While enrolled in the Basic and Advanced Courses, the cadet takes 18 credit hours of selected electives. Credit for these electives is in addition to the Military Science Advanced Course and satisfies requirements for ROTC and for the student's primary course of study. Electives are selected with the advice of the departmental faculty from electives approved by the PMS. Half of these selected must be in "effective communications" and the remaining 9 in other areas designed to augment and enhance the student's military education.

A student may submit military science as a comajor for a baccalaureate degree if he or she includes credit hours of PMS-approved 400-level PS courses as electives to increase hours creditable to military science to a total of 36.

Successful completion of the program in military science leads to a commission as an officer in one of fifteen branches of the Army.

Pay. Cadets attending the Basic and/or Advanced Camps are paid one-half a Second Lieutenant's monthly pay and a mileage allowance or the cost of an airline ticket to and from the camp. Advanced Course cadets receive a subsistence allowance at the rate of \$100 each school month excluding the Advanced Camp period.

Commissions. For a reserve commission a student must hold a baccalaureate degree and have successfully completed the course in military science. The branch of service in which the student is commissioned is determined by his or her academic standing, the individual's desires, and the needs of the Army.

Having received a reserve commission, an individual may be selected for three years of extended active duty or may stay on active duty long enough to attend the Officer's Basic Course

for his or her branch, usually less than three months. This active-duty-for-training-only option is guaranteed to those cadets requesting it.

Distinguished military students may apply for appointment as commissioned officers in the Regular Army. They must possess outstanding qualities of military leadership, high moral character, and definite aptitude for the military services, be between the ages of 21 and 27 years, and meet physical standards. If selected, they serve for at least four years.

Scholarships. Army ROTC offers four types of scholarships. Each pays full tuition, book costs, laboratory and incidental fees, and \$100 subsistence pay each school month for the term of the scholarship. (This is not paid in addition to the subsistence pay that all Advanced Course cadets get, but is an alternative financial aid program.) The four-year scholarships are awarded to selected applicants from among high-school seniors.

Three-year, two-year, and one-year scholarships are available to selected freshman, sophomore, and junior ROTC cadets. Full information on Army ROTC scholarships may be obtained by contacting the Department of Military Science of the University.

Lower Division Courses

MS 111,112,113 Military Science I

1 hour each 2 ①
Fundamentals of Leadership and Management. Organization of the Army and ROTC; the Army as a profession; leadership communication methods; military geography and land navigation; leadership laboratory. Must be taken in order.

MS 211,212,213 Military Science II

2 hours each 3 ①
Applied Leadership and Management. American military history; basic military tactics and operations; organization and function of national security structure; leadership laboratory. Must be taken in order.

MS 214 Basic Summer Camp

6 hours
Six weeks of instruction at Fort Knox, Kentucky; substitute for the first two years of the ROTC program.

MS 215 Fundamentals of Military Science

3 hours 3 ①
Leadership and management fundamentals: techniques, responsibilities, and communication. The role of Army ROTC; land navigation; the role of the military in American history; squad tactics; leadership laboratory.

MS 216 Basic Military Science

6 hours 5 ②
Introduction to leadership and management; organization of the Army and ROTC; the Army as a profession; communication methods; map reading and land navigation; military tactics; function, duties, and responsibilities of junior leaders. Offered summer term only.

Upper Division Courses

MS 311,312,313 Military Science III

3 hours each 4 ①
Advanced Leadership and Management. Leadership communication methods; review of current leadership theory, to include individual aculturation, group dynamics, organization theory, bureaucratic processes, and military professional ethics; the philosophy of modern warfare; modern offensive and defensive small unit tactics; branches of the Army; leadership laboratory; selected field training exercises. Usually taken in order.

MS 314 Advanced Summer Camp

6 hours
Practical and theoretical instruction for five-nine weeks at a military installation. Prerequisite: MS 311,312,313.

MS 405 Reading and Conference

Terms and hours to be arranged
Consent of Professor of Military Science required.

MS 411,412,413 Military Science IV

3 hours each 4 ①
Theory and Dynamics of the Military Team. Leadership and management problems of combat operations; seminar in leadership and management; position of the United States in the contemporary world; unit administration; military justice; obligations and responsibilities of an officer on active duty; leadership laboratory. Usually taken in order.

Department of Naval Science

Personnel detailed from United States Navy and Marine Corps as of January 1979

Professor Captain C. D. Ball III, (USN), Commanding Officer
Associate Professor Commander R. H. Reiley, Jr. (USN), Executive Officer

Assistant Professors Major Deichl (USMC); Lieutenant Commander Robertson (USN); Lieutenants Miller (USN), Smith (USN), Thompson (USN); Woodard (USN)

Instructors Chief Quartermaster Mathew (USN); Chief Storekeeper Bacon (USN); Gunnery Sergeant Pace (USMC); Chief Yeoman Fischer (USN)

Scholarship Students. Four-Year Scholarship Program students are selected through national competition and are appointed Midshipman, USNR, by the Secretary of the Navy. Most of the students receiving this scholarship are high school seniors. During their four years in college, they receive the financial benefits described below and attend three six-week summer cruises.

Two-Year Scholarship Program students are selected through national competition. Applicants must be in their second year of college or third year of a five-year curriculum and in good standing with not less than a "C" average. Selectees for enrollment in this program attend the Naval Science Institute, where they receive instruction in naval science and drill, during July and August after their selection. Successful completion of the Naval Science Institute qualifies students for enrollment in the advanced course of the NROTC program. Two-year scholarship students attend a six-week cruise between their junior and senior years.

For scholarship students, the Navy pays tuition, cost of textbooks, other fees of an instructional nature, and subsistence allowance of \$100 per month for each nine-month school year. Graduates are offered regular commissions as Ensign, United States Navy, or Second Lieutenant, United States Marine Corps, and are required to serve on active duty for four years. Applications for the scholarship program may be obtained from any NROTC Unit or Navy-Marine Corps Recruiting Office.

College Program Students. Four-Year College Program students are selected by the Department of Naval Science at OSU from voluntary applicants. While enrolled in the advanced course (the last two years of college), successful applicants receive subsistence amounting to \$100 per month. Graduates are offered commissions as Ensign, U.S. Naval Reserve, or Second Lieutenant, U.S. Marine Corps Reserve, and are required to serve on active duty for three years.

Two-Year College Program students are selected on a national basis from nominations submitted by the Professor of Naval Science. Selectees for enrollment in this program attend the Naval Science Institute (see Two-Year Scholarship Program). Top performers there are awarded scholarships.

College Program students are eligible to receive full scholarship benefits upon nomination by the Professor of Naval Science and selection by the Chief of Naval Education and Training.

Applications for the college program may be obtained from any NROTC unit.

Any University student may, with the prior approval of the Professor of Naval Science, take naval science courses for credit. However, such students are classified as naval science students and are not enrolled in the NROTC program.

Requirements. Every acceptable NROTC candidate applying for any of the NROTC programs must: 1) be a citizen of the United States; 2) be accepted for admission or enrolled in the University; 3) be at least 17 years of age upon enrollment and under 25 years (27½ for college program) on June 30 of the calendar year in which eligible for commissioning; (4) be

physically qualified in accordance with the standards established by the Department of the Navy; (5) possess a satisfactory record of moral integrity and have potential officer characteristics; (6) have no moral obligations or personal convictions preventing her or him from conscientiously bearing arms and supporting and defending the Constitution of the United States against all enemies foreign and domestic.

Status and Curriculum. Students enrolled in the NROTC program are not on active duty. They wear the uniform only for drills, on special occasions, and during the summer at sea training periods.

The program of study fits into curricula leading to first baccalaureate degrees. All midshipmen are required to take three credits of naval science per term. Additionally, scholarship students must complete three terms of calculus by the end of their sophomore year and three terms of physics by the end of their junior year.

Naval science (including summer training) pursued for four years in one of the undergraduate curricula constitutes a co-major with all of the majors offered in degree-granting divisions of schools. NROTC students may also request participation in graduate programs.

Lower Division Courses

NS 111,112,113 Naval Science I

3 hours each

5 ①

NS 111—*Naval Organization and Administration*: Organization of the Navy; the Navy as a career; responsibilities and commitments as an officer in the Navy or Marine Corps. NS 112, 113—*Naval Ships Systems*: Structure, stability, propulsion, and operation of naval ships. Recommended to be taken in order.

NS 211,212,213 Naval Science II

3 hours each

4 ①

NS 211, 212—*Naval Weapons*: Weapons department organization, management, and equipment. NS 213—*Seapower and Maritime Affairs*: Investigation of needs and characteristics of seapower and its effects on maritime affairs of U.S. Recommended to be taken in order.

Upper Division Courses

NS 311,312,313 Naval Science III

3 hours each

5 ①

NS 311—*Navigation*: Piloting, dead reckoning, and rules of the nautical road. NS 312—*Navigation*: Celestial and electronic navigation. NS 313—*Naval Operations*: Theory of shiphandling, communications, weather, fleet maneuvers, and relative movement problem solution. Recommended to be taken in order.

NS 321,322,323 Naval Science III: Marine Corps Option

3 hours each

4 ①

Evolution of Art of War and Modern Basic Strategy and Tactics: Art of war from Alexander to present; principles of modern strategy and small unit tactics. For U.S. Marine Corps candidates. Recommended to be taken in order. Offered alternate years.

NS 350 Aviation Ground School

3 hours

2 ②

Principles of flight, weather, and navigation; aerodynamic reactions; flight computers; flight planning; and associated federal air regulations.

NS 405 Reading and Conference

1 hour

To prepare midshipmen returning from a leave of absence from the naval science program for commissioning and entrance into the fleet.

NS 411,412,413 Naval Science IV

3 hours each

4 ①

Naval Management: Management motivational theories, decision-making processes, and leadership principles in the context of junior Naval officer responsibilities. Recommended to be taken in order.

NS 421,422,423 Naval Science IV: Marine Corps Option

3 hours each

4 ①

Amphibious Warfare and Administration: Theory of amphibious operations in World War II and Korean conflict; administration; leadership; and military justice. For U.S. Marine Corps candidates. Recommended to be taken in order. Offered alternate years.

NS 450 At-Sea Training

6 hours any term

Six- to eight-week training cruise taken aboard naval ships as arranged by Professor of Naval Science.