

# NAVAL ROTC

Our Website (<https://liberalarts.vt.edu/rotc/navy.html>)

## Overview

The Naval Reserve Officers Training Corps (NROTC) offers eligible young men and women the opportunity to earn commissions in the Navy or Marine Corps. NROTC midshipmen are required to complete the naval science curriculum and attend weekly professional laboratory sessions. During summer break, midshipmen participate in active duty at-sea or shore-based training facilities for periods of approximately four weeks. Students may enroll in the NROTC Program at the start of college or at the beginning of any semester prior to their second-to-last year. Two-, three-, and four-year scholarships may be available for those who demonstrate outstanding potential. Upon completion of university degree requirements and the naval science program, qualified midshipmen are commissioned as Ensigns in the Navy (Navy-option) or Second Lieutenants in the Marine Corps (Marine-option).

Students may join NROTC through any one of the following three programs.

## Four-Year National Scholarship Program

Students enter the NROTC Four-Year Scholarship Program through a national competition as high school seniors. Students selected to receive the National NROTC Scholarship attend New Student Indoctrination (NSI) during the summer before starting at Virginia Tech. NSI is a physically demanding two-and-a-half-week indoctrination course in basic military instruction and is held at the Recruit Training Command in Great Lakes, IL.

Students must be accepted into Virginia Tech and the Virginia Tech Corps of Cadets (VTCC), as well as meet Naval eligibility requirements and attend the VTCC New Cadet Week before Fall classes begin. Once these requirements are met, the students are appointed as Midshipmen in the Naval Reserve.

While they are enrolled and in good standing, the government provides tuition, fees, uniform allowance, book allowance, and a monthly stipend to scholarship students. Students complete Naval Science courses and participate in up to three summer training periods (known as Summer Cruise) of up to four weeks each. Upon graduation the midshipmen are commissioned with an obligation to serve on active duty for at least five years.

## College Program

Students are enrolled in the College Program upon acceptance by the Professor of Naval Science. Naval Science textbooks and a partial uniform allowance are provided. Students may compete for two- and three-year scholarships, as well as Advanced Standing. If accepted into College Program Advanced Standing, juniors and seniors receive a monthly stipend in addition to naval science textbooks and a uniform allowance. Advanced Standing students are obligated to complete the prescribed naval science curriculum, attend one summer cruise training period, accept a commission in the U.S. Navy, Marine Corps, or Marine Corps Reserve upon graduation, and serve on active duty for at least three years.

## Two- and Three-Year NSTC Controlled Scholarship Program

Students enrolled in the NROTC College Program and in good standing may be nominated by the Commanding Officer/Professor of Naval Science for a limited number of two- and three-year scholarships awarded by the Naval Service Training Command (NSTC). If selected and found medically qualified, these students receive the same benefits and incur the same obligations as the Four-Year Scholarship Program midshipmen.

## Requirements for All Candidates

Qualifications for acceptable candidates for the Scholarship Programs or the College Programs include, but are not limited to: U.S. citizenship; membership in the Virginia Tech Corps of Cadets; fulfillment of physical examination requirements; willingness to participate in required summer training periods, and to qualify for and accept the appropriate commission in the Navy, Marine Corps, or Marine Corps Reserve when offered.

Even if not included in the requirements of their majors or the Curriculum for Liberal Education and college core curriculum, NROTC Navy-option scholarship students must complete the following: one year of college calculus through differential and integral calculus of one real variable; one year of calculus-based physics; one semester of American history or national security policy; one year of English; and one semester of world cultures/regional studies.

During NROTC enrollment, each midshipman will be required to pass semiannual physical fitness tests and to qualify as a Second-Class swimmer before going on summer cruise.

## Emerging Leader Scholarship Program

The University, in conjunction with the Virginia Tech Corps of Cadets Alumni Association, is offering a scholarship to incoming freshmen who are enrolled in an ROTC program and become members of the Corps of Cadets. Contact the Virginia Tech Corps of Cadets for more information.

## Minor in Naval Leadership

The minor in Naval Leadership focuses on leadership development, both with regard to improving skills and personal character, with an emphasis on ethical professionalism as a warrior and national ambassador in a global context. The twelve (12) credit hours of required courses and nine (9) credit hours of elective courses are geared toward students actively seeking a commission in the United States naval services, but can also be appealing to students working in other disciplines throughout the university.

**Head:** Steven W. Antcliff, CAPT, USN

**Professor:** S.W. Antcliff

**Associate Professor:** M.R. Koop

**Assistant Professors:** W.T. Bloomer, Z.R. Crete, K.F. Davis, M.E. Jack, B.A. Van Keuren, C.J. Vaughn, Z.A. Weeks

**Professors of Practice:** C.R. Tinner, R.W. McNew

## Undergraduate Course Descriptions (MN)

### **MN 1004 - Introduction to Naval Science (3 credits)**

A basic introduction to the Naval profession and concept of sea power. Explores the role of the commissioned officer and covers uniform regulations, the Uniform Code of Military Justice, Naval terminology, the Oath of Office, the Navy Ethos, and customs and courtesies. Also covers basic communication and the importance of training and qualification. The relationship to sea power and maritime strategy explained through the missions of the Navy and Marine Corps, briefly touching on the mission of other branches. Explains how directives are revised and published, as well as possible threats against platforms. Basic shipboard damage control covered with an emphasis on combating naval casualties.

**Instructional Contact Hours:** (3 Lec, 3 Crd)

### **MN 1014 - Naval Fitness (1 credit)**

Reflects a culture of physical fitness as way of life within the United States Navy & the United States Navy Reserve Officer Training Corps (NROTC). Structured to motivate members to participate and implement year-round physical fitness conditioning program emphasizing total-body wellness to demonstrate expeditionary mission requirements. Prepares midshipmen to demonstrate competency in fitness programs upon entering active duty. Class is limited to students currently enrolled in the Virginia Tech NROTC program. Comprised of evolving content and may be repeated 9 times for a maximum of 10 credit hours. Pre: Enrollment in the Virginia Tech Naval ROTC program.

**Instructional Contact Hours:** (3 Lab, 1 Crd)

**Repeatability:** up to 10 credit hours

### **MN 1104 - Naval Ships Systems I: Engineering (3 credits)**

Ship characteristics and types. Includes ship design, hydrodynamic forces, stability, main propulsion, electrical and auxiliary systems, interior communications, ship control, and damage control. One semester of college level science required.

**Prerequisite(s):** MN 1004

**Instructional Contact Hours:** (3 Lec, 3 Crd)

### **MN 1984 - Special Study (1-19 credits)**

**Instructional Contact Hours:** Variable credit course

### **MN 2004 - Naval Ships Systems II: Weapons (3 credits)**

Theory and employment of naval weapons systems. Includes threat detection, evaluation, weapon selection, delivery systems, guidance, and warhead design. Elements of command, control, and communications.

**Instructional Contact Hours:** (3 Lec, 3 Crd)

### **MN 2104 - Seapower and Maritime Affairs (3 credits)**

A survey of naval history from the American Revolution to the present with emphasis on major developments in strategy, tactics, and technology. Discussion of the geopolitical theory of Alfred Thayer Mahan. Explores present concerns in seapower and maritime affairs, including the economic and political dimensions of ocean commerce, the Law of the Sea, a comparison of U.S. and Soviet maritime strategies, and current naval affairs.

**Instructional Contact Hours:** (3 Lec, 3 Crd)

### **MN 2974 - Independent Study (1-19 credits)**

**Instructional Contact Hours:** Variable credit course

### **MN 2984 - Special Study (1-19 credits)**

**Instructional Contact Hours:** Variable credit course

### **MN 3005 - Navigation and Naval Operations (3 credits)**

3005: An in-depth study of the theory and practice of piloting and introduction to celestial navigation. Students develop practical skills in the use of charts, visual and electronic aids. A study of the International Rules of the Nautical Road. 3006: Relative motion, vector-analysis theory, and ship employment. Includes an introduction to naval operations, ship characteristics, shiphandling, and afloat communications. I

**Instructional Contact Hours:** (3 Lec, 3 Crd)

### **MN 3006 - Navigation and Naval Operations (3 credits)**

3005: An in-depth study of the theory and practice of piloting and celestial navigation. Students develop practical skills in the use of charts, visual and electronic aids. 3006: A study of the International Rules of the Nautical Road, relative motion, vector-analysis theory, and ship employment. Includes an introduction to naval operations, ship characteristics, shiphandling, and afloat communications. II

**Instructional Contact Hours:** (3 Lec, 3 Crd)

### **MN 3204 - Evolution of Warfare (3 credits)**

Development of warfare focusing on impact of major military theorists, strategists, and technicians. Ancient times to present. I

**Prerequisite(s):** MN 2104

**Instructional Contact Hours:** (3 Lec, 3 Crd)

### **MN 4005 - Leadership and Management/Ethics (3 credits)**

4005: Examines leadership skills, strategies, and contexts as interpreted through the lenses of the leader, the follower, and the situation. Contrasts the roles of leader and manager within diverse constructs. Focuses on building and sustaining high-performance teams through transformational, charismatic and servant leadership. Challenges students to develop individual leadership skill development programs. Introduces general ethical theories and moral reasoning skills in the context of ethical decision making case studies, dark side trait analysis, and associated mitigation strategies. 4006: Explores philosophical schools of ethical thought in the context of targeted/representative case studies, both historical and contemporary in nature. Applies theoretical approaches to moral reasoning specifically as they pertain to ethical dilemmas within the rubrics of distributive justice and just war theory. Analyzes moral obligations as entailed by a voluntary oath of service. Examines strategies for mentorship, behavior reinforcement, and disciplinary options to optimize organizational success. Pre: Sophomore Standing.

**Pathway Concept Area(s):** 3 Reasoning in Social Sciences, 10 Ethical Reasoning, 11 Intercultural&Global Aware.

**Instructional Contact Hours:** (3 Lec, 3 Crd)

**MN 4006 - Leadership and Management/Ethics (3 credits)**

4005: Examines leadership skills, strategies, and contexts as interpreted through the lenses of the leader, the follower, and the situation. Contrasts the roles of leader and manager within diverse constructs. Focuses on building and sustaining high-performance teams through transformational, charismatic and servant leadership. Challenges students to develop individual leadership skill development programs. Introduces general ethical theories and moral reasoning skills in the context of ethical decision making case studies, dark side trait analysis, and associated mitigation strategies. 4006: Explores philosophical schools of ethical thought in the context of targeted/representative case studies, both historical and contemporary in nature. Applies theoretical approaches to moral reasoning specifically as they pertain to ethical dilemmas within the rubrics of distributive justice and just war theory. Analyzes moral obligations as entailed by a voluntary oath of service. Examines strategies for mentorship, behavior reinforcement, and disciplinary options to optimize organizational success. Pre: Sophomore Standing.

**Pathway Concept Area(s):** 3 Reasoning in Social Sciences, 10 Ethical Reasoning, 11 Intercultural&Global Aware.

**Instructional Contact Hours:** (3 Lec, 3 Crd)

**MN 4204 - Amphibious Warfare (3 credits)**

Historical survey of the development of amphibious doctrine and the conduct of amphibious operations. Emphasis is on amphibious operations in World War II. Present day potential and limitations on amphibious operations are explored. I

**Instructional Contact Hours:** (3 Lec, 3 Crd)

**MN 4974 - Independent Study (1-19 credits)**

**Instructional Contact Hours:** Variable credit course

**MN 4984 - Special Study (1-19 credits)**

II

**Instructional Contact Hours:** Variable credit course