

# NAVAL SCIENCE/NAVAL ROTC

## Description

**Website:** <http://www.unl.edu/nrotc/>

The Naval Reserve Officer Training Corps (NROTC) is a competitive program designed for the purpose of educating men and women for service as commissioned officers in the United States Navy and Marine Corps. Students accepted into the program receive training and experience in the one quality that will always be in great demand: Leadership. Upon commissioning, University of Nebraska NROTC graduates serve in such diverse fields as aviation, surface warfare, submarine warfare, naval special warfare, and as United States Marines.

## Benefits

- NROTC Midshipmen may receive a national scholarship covering either full tuition and fees or room and board, a stipend for books, and a monthly stipend to help cover living expenses.
- There is also a non-scholarship program for students who did not initially qualify for a national scholarship but are interested in a career in the United States Navy or United States Marine Corps. They compete for other two- and three-year scholarships and must earn a scholarship, or an advanced standing status, by the beginning of their academic junior year to remain in the program.
- Out-of-state NROTC Midshipman at the University of Nebraska–Lincoln may qualify for in-state tuition rates, via the Husker Salute Pledge.
- All NROTC students receive their required uniforms at no cost.
- For information on financial assistance, Navy and Marine Corps ROTC Scholarships, and general information about the University of Nebraska–Lincoln Naval ROTC program, visit <http://www.unl.edu/nrotc/>.

## Curriculum

### Four-Year Scholarship Program

Four-year NROTC scholarships are awarded annually based on a competitive selection process in which consideration is given to factors such as high school record, college board scores, extracurricular activities, and leadership qualities. The primary applicant to this program is a high school senior, but college freshmen may also qualify.

### Three-Year Scholarship Program

During their freshman year at the University of Nebraska–Lincoln, students may apply for the national scholarship. It is recommended that students interested in this possibility enroll in Naval Science (NAVS) classes and participate in battalion activities.

### Two-Year Scholarship Program

Two-year NROTC scholarships are awarded to students who are approaching their junior year. Consideration is given to factors such as performance in college and leadership potential.

### College Program

The College Program is a non-scholarship program designed for students who did not qualify for an ROTC Scholarship. Students in the College Program are fully integrated in the NROTC program and may qualify for the same careers in the Navy and Marine Corps upon graduation. There is

also an opportunity for College Program students to compete for NROTC scholarships after one or more semesters of exemplary performance.

## Naval Science Open Curriculum

Any University of Nebraska–Lincoln student may take Naval Science academic courses for college credit. However, enrollment in leadership laboratories is restricted to students who are accepted into the NROTC program. No active duty obligation is incurred.

### NAVS 100 Naval Orientation Lab

**Description:** Naval Orientation requires one and one-half hours participation per week. Continuing program offering an introduction to the various aspects of Navy life. Conducted each semester in the NROTC program.

**Credit Hours:** 0

**Max credits per semester:**

**Max credits per degree:**

**Grading Option:** Pass No Pass

### NAVS 111 Introduction to Naval Science

**Description:** Introduction to seapower and the naval service. The mission, organization, regulations, and broad warfare components of the Navy and Marine Corps. Officer and enlisted rank and rating structures; training; promotions; naval customs and courtesies; ship nomenclature; leadership and discipline. Throughout the course students are apprised of the major challenges facing today's naval officer.

**Credit Hours:** 2

**Max credits per semester:** 2

**Max credits per degree:** 2

**Grading Option:** Graded

### NAVS 112 Sea Power & Maritime Affairs

**Notes:** This is a 3 credit course.

**Description:** This course surveys sea power in terms of "national" domestic environments, foreign policy, technology, leadership, doctrine, strategy and tactics, and "inter-service relations". An understanding of the historical impact of these factors on maritime warfare has direct application to present day and future maritime warfare. Discussions examine the history of the Navy as a force in diplomacy and an instrument of U.S. foreign policy. Relationships between Congress and the military for determining the national defense policy are also explored. An integrated examination of current events and issues lends historical perspective throughout the course. The objective is to challenge you to think critically, objectively, and systemically in order to permit you to function more effectively as a leader in charge of complex maritime systems and organizations in dynamic environments.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**NAVS 222 Naval Ship Systems II**

**Description:** Concepts of naval weapons systems, automatic control systems, and communication systems are explored. Components of the weapon system, including sensors and detection systems, tracking systems, computational systems, launching devices, and projectiles. Once the weapon systems have been defined, they are analyzed solving classic fire control problems and in more modern "total system integration." Command, control, and intelligence (C4ISR) and the impact that computers play in this area. Student presentations are utilized to help them understand how the theory presented is used in modern naval weapons system.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**NAVS 231 Naval Ship Systems I**

**Description:** Basic considerations for hull design for naval vessels, related to buoyancy, equilibrium, stability, and the effects of flooding on the design characteristics of naval vessels; basic principles and components of a ship's propulsion system and their relation to all other ship's systems; and the interrelationships and interdependency of all of a ship's systems to the successful mission of a ship.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**NAVS 321 Evolution of Warfare**

**Prerequisites:** Junior or senior standing

**Description:** History of warfare and its evolution from the beginning of recorded history to the present.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**NAVS 322 Naval Operations and Seamanship**

**Prerequisites:** NAVS 331.

**Description:** Principles essential for an understanding of and a working capability in both safe navigation and decision making. Comprised of a detailed and applied analysis of relative motion, ship handling, and "rules of the sea."

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**NAVS 331 Navigation**

**Description:** Theories, computations, practices, and techniques of terrestrial and celestial navigation. The theory involved in advanced electronic navigation systems.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**Prerequisite for:** NAVS 322

**NAVS 401 Naval Leadership and Management**

**Description:** Designed to provide a scholarly basis for leadership and management studies for both future military officers and private sector leaders. Creates a deeper understanding of the topic through case studies, selected readings, and focused research that provides the student with a deeper understanding of leadership theory and management tools that can be used in future leadership roles.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**NAVS 412 Leadership and Ethics**

**Description:** Equips the Navy NROTC student with the skills and abilities needed for competence as a commissioned officer. Theory of leadership and management and practical application. Professional ethics and law within the scope of the military environment. Capstone course builds upon and focuses the managerial and professional competencies developed during prior at-sea training and naval science courses.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded

**NAVS 421 Introduction to the Fundamentals of Maneuver Warfare**

**Prerequisites:** Junior or senior standing, or permission of department chair.

**Notes:** Open to all students and required for US Marine Corps students.

**Description:** Studies broad aspects of warfare and its interaction with current maneuver warfare doctrine. Case study examination of the historic influences of current tactical, operational and strategic implications of maneuver warfare practices. Specific focus on the United States Marine Corps as the premier maneuver warfare fighting institution.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option