

# NAVAL ROTC/NAVAL SCIENCE

## Courses

### NAVY 1100. Naval Laboratory I. (0 Credits)

Midshipmen are provided the opportunity in laboratory to develop personally while participating in activities as a team leader or team member. Naval Science Laboratories are a blend of academic lectures on naval theory and naval administration and practical training in physical readiness, military discipline, and an appreciation of the customs and traditions of the Naval Service. All NROTC midshipmen, STA-21 and MECEP students are required to attend.

### NAVY 1101. Introduction to Naval Science. (3 Credits)

This course introduces students to the naval profession and to concepts of sea power, emphasizing the mission and organization of the Navy and Marine Corps. Included is an overview of officer and enlisted ranks and rates, training, education, and career patterns. The course also covers naval courtesy and customs, leadership, and nomenclature, and it exposes students to the professional competencies. First-year students, fall semester.

### NAVY 1102. History of Sea Power. (3 Credits)

A study of the U.S. Navy and the influence of sea power on history. This course incorporates both a historical and political science process to explore the major events, attitudes, personalities, and circumstances that have imbued the U.S. Navy with its proud history and rich tradition. It deals with issues of national imperative in peacetime as well as war; varying maritime philosophies which were interpreted into naval strategies and doctrines; budgetary concerns which shaped force realities; and the pursuit of American diplomatic objectives, concluding with the current search for direction in the post-Cold War era. Substitutes for sophomore history requirement. Required of all NROTC scholarship and college program midshipmen. First year, spring semester.

### NAVY 2200. Naval Laboratory II. (0 Credits)

Midshipmen are provided the opportunity in laboratory to develop personally while participating in activities as a team leader or team member. Naval Science Laboratories are a blend of academic lectures on naval theory and naval administration and practical training in physical readiness, military discipline, and an appreciation of the customs and traditions of the Naval Service. All NROTC midshipmen, STA-21 and MECEP students are required to attend.

### NAVY 2201. Naval Leadership I. (2 Credits)

A comprehensive study of organizational behavior and management in the context of the naval organization. Senior year, fall semester, for Navy Option midshipmen. (Maritime NVSC 401.) Degree credit through CBA.

### NAVY 2204. Navigation and Naval Operation I. (3 Credits)

Piloting and celestial navigation including theory, principles, procedures, the use of charts, visual and electronic aids, and the theory and operation of magnetic and gyro compasses. Celestial navigation is covered in depth. Practical skills are developed. Topics include tides, currents, effects of wind and weather, plotting, use of navigation system, and day's work in navigation. Required of all Navy Option NROTC midshipmen. Sophomore year, spring semester. Degree credit through CBA. (Maritime NVSC 211).

### NAVY 3300. Naval Laboratory III. (0 Credits)

Midshipmen are provided the opportunity in laboratory to develop personally while participating in activities as a team leader or team member. Naval Science Laboratories are a blend of academic lectures on naval theory and naval administration and practical training in physical readiness, military discipline, and an appreciation of the customs and traditions of the Naval Service. All NROTC midshipmen, STA-21 and MECEP students are required to attend.

### NAVY 3303. Naval Ship Sys I (Engineering). (3 Credits)

A study of ship characteristics and types, including ship design, hydrodynamic forces, stability, compartmentation, propulsion, electrical and auxiliary systems, interior communications, ship control, and damage control; theory and design of steam, gas turbine, and nuclear propulsion; shipboard safety, and firefighting. Required of all Navy Option NROTC midshipmen. Junior year, fall semester.

### NAVY 3304. Naval Weapons Systems. (3 Credits)

Modern naval weapons, attention is given to airborne, surface systems. The facets of command, control, integration. Required of all Navy Option, CBA. (Maritime NYSC 303)

### NAVY 3305. Naval Operations & Seamanship. (3 Credits)

A continued study of relative motion, formation tactics, and ship employment. Introductions to naval operations and operations analysis, ship behavior and characteristics in maneuvering, applied aspects of ship handling, afloat communications, naval command and control, naval warfare areas, and joint warfare are also included. The course is supplemented with a review/analysis of case studies involving moral/ethical/leadership issues pertaining to the concepts listed above. Designed for seniors in the NROTC program, fall semester.

### NAVY 3311. Evolution of Warfare. (3 Credits)

History of warfare, focusing on the impact of major military theorists, strategies, tacticians, and technological development. Required of all Marine Option NROTC midshipmen and MECEP students. Junior year, fall semester. (Maritime NVSC 311)

### NAVY 3312. Amphibious Warfare. (3 Credits)

History of amphibious doctrine and the conduct of amphibious operations. Emphasis is on the 20th century, especially World War II. Present-day potential and limitations of amphibious operations, including the rapid deployment force concept, are explored. Required of all Marine Option NROTC midshipmen and MECEP students. Junior year, spring semester. Degree credit through GSB.

### NAVY 4400. Naval Laboratory IV. (0 Credits)

Midshipmen are provided the opportunity in laboratory to develop personally while participating in activities as a team leader or team member. Naval Science Laboratories are a blend of academic lectures on naval theory and naval administration and practical training in physical readiness, military discipline, and an appreciation of the customs and traditions of the Naval Service. All NROTC midshipmen, STA-21 and MECEP students are required to attend.

### NAVY 4402. Naval Leadership II. (3 Credits)

The study of naval junior officer responsibilities in naval administration. This capstone course in the NROTC curriculum builds on and integrates the professional competencies developed in prior coursework and professional training. Required of all NROTC midshipmen, STA-21, and MECEP students. Senior year, spring semester. Degree credit through GSB.

**NAVY 4403. Navigation and Naval Operations II. (3 Credits)**

A study of the international and inland rules of the nautical road, relative motion vector analysis theory, relative motion problems, formation tactics, and ship employment. Also included are an introduction to naval operations analysis, ship behavior and characteristics in maneuvering, applied aspects of ship handling, and afloat communications. Required of all Navy Option NROTC midshipmen. Senior year, fall semester.