

# NAVAL SCIENCE (NAV SCI)

## NAV SCI 101 – INTRODUCTION TO NAVAL SCIENCE

2 credits.

Introduction to the naval profession emphasizing the missions, organization, and components of the Navy and Marine Corps. Topics include terminology, military justice, job specialties, seapower, and naval leadership. Includes lab. Intended for first year Naval ROTC students.

**Requisites:** None

**Repeatable for Credit:** No

**Last Taught:** Fall 2022

## NAV SCI 102 – SEAPOWER-MARITIME AFFAIRS

3 credits.

Historical survey of the U.S. Navy and American concepts of seapower from 1775 to the present. Includes the evolution of maritime strategy in support of U.S. National Strategy. Current issues in maritime affairs. Includes lab. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2023

## NAV SCI 175 – INTRODUCTORY NAVAL LABORATORY I

0-1 credits.

Laboratory class covering officer education in naval orientation and other topics dealing with the professional development of future naval officers. Intended for freshman NROTC students.

**Requisites:** Enrolled in Naval ROTC program

**Repeatable for Credit:** No

**Last Taught:** Fall 2022

## NAV SCI 176 – INTRODUCTORY NAVAL LABORATORY II

0-1 credits.

Laboratory class covering officer education in naval sea power and other topics dealing with the professional development of future naval officers. Intended for freshman NROTC students.

**Requisites:** Enrolled in Naval ROTC program

**Repeatable for Credit:** No

**Last Taught:** Spring 2023

## NAV SCI 201 – NAVAL LEADERSHIP AND MANAGEMENT

3 credits.

A study of organizational behavior and management within the context of the naval organization. Topics include a survey of managerial functions and a study of behavioral aspects of organizations with emphasis on motivation and leadership. Includes lab. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2022

## NAV SCI 202 – NAVIGATION

3 credits.

Introduction to concepts and techniques used to navigate U.S. Navy and civilian ships. Charts and publications, compasses, tides and currents, dead reckoning, piloting, celestial and electronic navigation; day's work in navigation and Nautical Rules of the Road. Includes lab. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2023

## NAV SCI 275 – ELEMENTARY NAVAL LABORATORY I

0-1 credits.

Laboratory class covering officer education in naval engineering and other topics dealing with the professional development of future naval officers. Intended for sophomore NROTC students.

**Requisites:** Enrolled in Naval ROTC program

**Repeatable for Credit:** No

**Last Taught:** Fall 2022

## NAV SCI 276 – ELEMENTARY NAVAL LABORATORY II

0-1 credits.

Laboratory class covering officer education in naval weapons and other topics dealing with the professional development of future naval officers. Intended for sophomore NROTC students.

**Requisites:** Enrolled in Naval ROTC program

**Repeatable for Credit:** No

**Last Taught:** Spring 2023

## NAV SCI 301 – NAVAL ENGINEERING

3 credits.

The basic principles and components of ship propulsion systems including steam, diesel, gas turbine, and nuclear power plants. Other topics include ship construction, buoyancy and stability, damage control, electrical distribution, and air conditioning/ refrigeration. Includes lab. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None

**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2022

**NAV SCI 302 – NAVAL WEAPONS**

3 credits.

Introduction to the properties and behavior of electronic, electromagnetic, and mechanical systems used in naval weapons systems. Topics and concepts include wide range of academic disciplines, all of which are applied to the maritime uses of radar, sonar, communications, electro-optics, computers, missile, and electronic warfare systems. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None**Course Designation:** Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2023**NAV SCI 350 – FUNDAMENTALS OF MANEUVER WARFARE**

3 credits.

History of maneuver warfare and the development of the concepts, principles, and doctrine of military operations through study of selected examples from modern history. Open to non-ROTC students on a space available basis, with consent of instructor

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2022**NAV SCI 351 – LAND CAMPAIGNS**

3 credits.

Evolution of weapons, strategy, tactics and material; the classic principles of war by study of selected battles and campaigns; survey of military and foreign policy, basic strategic concepts, and principles of warfare. Includes lab. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Intermediate

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2023**NAV SCI 375 – INTERMEDIATE NAVAL LABORATORY I**

0-1 credits.

Laboratory class covering officer education in naval navigation and other topics dealing with the professional development of future naval officers. Intended for junior NROTC students.

**Requisites:** Enrolled in Naval ROTC program**Repeatable for Credit:** No**Last Taught:** Fall 2022**NAV SCI 376 – INTERMEDIATE NAVAL LABORATORY II**

0-1 credits.

Laboratory class covering officer education in naval operations and other topics dealing with the professional development of future naval officers. Intended for junior NROTC students.

**Requisites:** Enrolled in Naval ROTC program**Repeatable for Credit:** No**Last Taught:** Spring 2023**NAV SCI 401 – NAVAL OPERATIONS**

3 credits.

In depth study of the professional and efficient operation of U.S. Navy ships. Fleet communications, tactical employment, relative motion plotting, seamanship, and a lecture series on Joint Warfare and the Employment of Naval Forces as an element of National Security Strategy. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None**Course Designation:** Breadth - Social Science

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2022**NAV SCI 402 – NAVAL LEADERSHIP AND ETHICS**

3 credits.

Capstone course. Integrates an exploration of Western moral traditions and ethical philosophy with military leadership, professional ethics, and the Uniform Code of Military Justice. Includes lab. Intended for Senior NROTC students. Open to non-ROTC students on a space available basis, with consent of instructor.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Advanced

L&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2023**NAV SCI 475 – ADVANCED NAVAL LABORATORY I**

0-1 credits.

Laboratory class covering officer education in naval management and other topics dealing with the professional development of future naval officers. Intended for senior NROTC students.

**Requisites:** Enrolled in Naval ROTC program**Repeatable for Credit:** No**Last Taught:** Fall 2022**NAV SCI 476 – ADVANCED NAVAL LABORATORY II**

0-1 credits.

Laboratory class covering officer education in naval leadership and other topics dealing with the professional development of future naval officers. Intended for senior NROTC students.

**Requisites:** Enrolled in Naval ROTC program**Repeatable for Credit:** No**Last Taught:** Spring 2023

**NAV SCI 575 – PROFESSIONAL NAVAL LABORATORY I**

0-1 credits.

Laboratory class covering officer education in naval orientation and other topics dealing with the professional development of future naval officers. Intended for senior NROTC students.

**Requisites:** Enrolled in Naval ROTC program

**Repeatable for Credit:** No

**Last Taught:** Fall 2022

**NAV SCI 576 – PROFESSIONAL NAVAL LABORATORY II**

0-1 credits.

Laboratory class covering officer education in naval orientation and other topics dealing with the professional development of future naval officers. Intended for senior NROTC students.

**Requisites:** Enrolled in Naval ROTC program

**Repeatable for Credit:** No

**Last Taught:** Spring 2021