NAVY - NAVY

NAVY100 Introduction to Naval Science (3 Credits)
Introduction to the naval profession and concepts of sea power. Major topics explored are the mission, strategy, organization, and descriptions of the U.S. Navy and Marine Corps. Students will gain a basic understanding of warfighting capabilities, required leadership skills, training and education, and the duties and responsibilities of a U.S. Navy and Marine Corps Junior Officer. The student will learn Naval courtesy and customs, military justice, and nomenclature as well as the professional competencies required to become a naval officer.

NAVY101 Sea Power and Maritime Affairs (3 Credits)
Introduces the student to the key themes of naval and maritime history. Curriculum presents an analysis through lectures, reading, and student discussion of the relationship of sea power to American history. Classical concepts and contemporary employment of sea power are examined by viewing historic and current naval and maritime developments.

NAVY108 Naval Science Leadership Lab (1 Credit)
Introduces the student to a variety of instructional sessions and/or activities that will develop the leadership component of the Naval ROTC program. The Naval Science leadership lab may include, but not be limited to, close-order drill, physical fitness training, ceremonial functions, Department of the Navy policy, guest lecturers, general military training (GMT), Anti-Terrorism Force Protection (ATFP), traffic safety, nutrition, stress management, prevention of sexual harassment, and operations security.Corequisite: 1 course from NAVY100-402 course range.
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Restriction: Permission of UGST-Navy ROTC.
Repeatable to: 8 credits.

NAVY200 Leadership and Management (3 Credits)
Introductory course designed to familiarize students with the theories, processes, and behaviors that enable effective leadership and managerial competence. Students will engage in analytical discussions, review leadership development and education, and Navy/Marine Corps-based case study discussions in order to develop their understanding of personal strengths, values and growth opportunities in the context of team, group and organizational leadership.
Restriction: Permission of UGST-Navy ROTC.
Additional Information: Priority enrollment will be given to students enrolled in the NROTC program.

NAVY201 Navigation (3 Credits)
Introduces the student to a broad yet thorough education in basic surface ship navigation. Curriculum presents an overview of tools of the modern naval watch officer, and topics include celestial navigation, rules of the nautical road, piloting, practical chartwork, tides, instruments, publications, records, and electronic navigation systems. Instructional sessions and/or activities develop the maritime proficiency core competency of the Naval Reserve Officer Training Corps (NROTC) program.
Restriction: Permission of UGST-Navy ROTC.
Additional Information: Priority enrollment will be given to students enrolled in the University of Maryland NROTC program.

NAVY300 Naval Ship Systems I (Engineering) (3 Credits)
Introduces the student to a comprehensive fundamental understanding of United States naval engineering principles and systems. Topics include thermodynamics, incompressible fluid flow, electrical theory, hydraulics and pneumatics, power train components, fluid/lube oil systems, desalination, fundamentals of nuclear power, propulsion systems (internal combustion, gas turbines, and steam), electrical distribution, ship stability and control and damage control. Students will also examine case studies to apply and analyze course topics within naval ships systems contexts.
Recommended: MATH140 and MATH141.
Restriction: Permission of UGST-Navy ROTC.
Additional Information: Priority enrollment will be given to students enrolled in the NROTC program.

NAVY301 Naval Ship Systems II (Weapons) (3 Credits)
Introduces the student to a comprehensive fundamental understanding of United States naval weaponry. Includes theory and employment of weapons systems, including the processes of detection, evaluation, threat analysis, weapon selection, delivery, guidance, and explosives. Radar and sonar systems and major weapon types, including capabilities and limitations. Facets of command, control, and communications as means of weapons system integration. Curriculum presents an in-depth review of surface, sub-surface, aviation, and Marine Corps weapons and platforms.
Recommended: MATH140, MATH141, and PHYS161.
Restriction: Permission of UGST-Navy ROTC.
Additional Information: Priority enrollment will be given to students enrolled in the NROTC program.

NAVY302 Evolution of Warfare (3 Credits)
Traces the development of warfare, from earliest recorded history to the present, with focus on the impact of major military theorists, strategists, tacticians, and technological developments. The student acquires an intermediate sense of strategy and develops an understanding of military alternatives and the impact of historical precedent on military thought and actions.
Recommended: NAVY100 and NAVY101.
Restriction: Permission of UGST-Navy ROTC.
Additional Information: Priority enrollment will be given to students in the NROTC program.

NAVY400 Naval Operations and Seamanship (3 Credits)
Capstone course for senior NROTC Navy-option midshipmen in advanced navigation, communications, naval operations, and naval warfare. Students learn through simulation in a computer classroom known as the Maritime Skills Simulator (MSS), in addition to lectures, discussions, and qualitative and quantitative tests/examinations. Students will engage in discussions regarding the moral and ethical responsibilities or military leaders, as well as the essential attributes of character required for effective leadership.
Recommended: NAVY201.
Restriction: Permission of UGST-Navy ROTC.
Additional Information: Priority enrollment will be given to students enrolled in the NROTC program.

NAVY401 Leadership and Ethics (3 Credits)
Integrates an intellectual exploration of Western moral traditions and ethical philosophy with military leadership, core values, the Uniform Code of Military Justice, and Navy regulations. The course provides students with a basic understanding of major moral traditions including Relativism, Utilitarianism, Kantian Ethics, Natural Law Theory, Divine Command Theory, and Virtue Ethics.
Recommended: NAVY200.
Restriction: Permission of UGST-Navy ROTC.
Additional Information: Priority enrollment will be given to students enrolled in the NROTC program.

NAVY402 Fundamentals of Maneuver Warfare (3 Credits)
A detailed study of the characteristics of modern warfare and their interactions with maneuver warfare doctrine, with a focus on the United States Marine Corps. Throughout the course, there is a strong focus on leadership, as the fundamental purpose of this course is to develop the skills, knowledge, leadership background and mentality necessary for a successful future leadership and service, whether in the military or the civilian sector.
Recommended: NAVY100, NAVY101, NAVY200, and NAVY108.
Restriction: Permission of UGST-Navy ROTC.
Additional Information: Priority in enrollment will be given to students in the NROTC program.