

# UMBC UGC New Course Request: NAVY 201 Navigation

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## COURSE INFORMATION:

Course Number(s)	NAVY 201
Formal Title	Navigation
Transcript Title (≤30c)	Navigation
Recommended Course Preparation	NAVY 100, NAVY 101
Prerequisite <b>NOTE:</b> Unless otherwise indicated, a prerequisite is assumed to be passed with a "D" or better.	
Credits	3
Repeatable?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Max. Total Credits	3 <small>This should be equal to the number of credits for courses that cannot be repeated for credit. For courses that may be repeated for credit, enter the maximum total number of credits a student can receive from this course. E.g., enter 6 credits for a 3 credit course that may be taken a second time for credit, but not for a third time. Please note that this does NOT refer to how many times a class may be retaken for a higher grade.</small>
Grading Method(s)	<input checked="" type="checkbox"/> Reg (A-F) <input type="checkbox"/> Audit <input type="checkbox"/> Pass-Fail

## PROPOSED CATALOG DESCRIPTION (no longer than 75 words):

This course 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. Departmental permission required.

## RATIONALE FOR NEW COURSE:

a) **Why is there a need for this course at this time?** For students to be successful U.S. Navy officers, basic shipboard navigation skills develop the critical foundation for future professional studies. The Navy and Marine Corps are charged with maintaining superiority in the maritime domain, and marine navigation underpins every mission defense assets perform. The course will consist of 1.25 hours of instruction and practical assessments twice each week. NAVY 201 provides an in-depth study of the theory, principles, procedures, and application of plotting, piloting, and electronic navigation, as well as an introduction to maneuvering boards. Students learn piloting techniques, the use of charts, the use of visual and electronic aids, and the theory of operation of both magnetic and gyrocompasses. Students develop practical skills in plotting and electronic navigation. Other topics include tides, currents, effects of wind/weather, voyage planning, and an application and introduction to the international/inland rules of navigation. The course is supplemented with a review/analysis of case studies involving moral/ethical/leadership issues pertaining to the concepts previously listed.

b) **How often is the course likely to be taught?** The course will be piloted in the Spring 2017 semester and the course will be taught every spring semester (once per Academic Year). Once approved, the course will be adopted into the NROTC program at UMBC as part of its Naval Science curriculum offerings.

c) **How does this course fit into your department's curriculum?** This course is designed to fulfill the U.S. Navy-mandated navigation requirement. The class is a foundational skills course for midshipmen/students focused on joining the NROTC program and commissioning as an officer in the U.S. Navy. Students will practice the maritime proficiency professional competency required to become a naval officer, and develop a basic understanding of navigation concepts that are core to the Navy such as plotting and piloting, weather, steering and sailing rules, and maneuvering board fundamentals. This course may include, but not be limited to, navigation incident case studies, piloting exercises, and maneuvering board practical examinations. In addition, the course will utilize a mission bridge simulator and immerse the students in structured learning experiences targeting learning objectives and teamwork competencies.

d) **What primary student population will the course serve:** This course is intended for NROTC scholarship students and those students who wish to join the NROTC program and commission as an officer in the U.S. Navy or Marine Corps. It is open to all enrolled UMBC students with approval by the Professor of Naval Science. This course is designed for midshipmen/students in their second year of academic study within the NROTC program, although other students may be accepted for attendance on a case-by-case basis.

e) **Why is the course offered at the level (ie.100, 200, 300, or 400 level) chosen?** This course is intended for NROTC scholarship students and those UMBC students seeking to join the NROTC unit who desire a commission in the U.S. Navy. It is offered at the 200 level with the intention, but not required, for participating students to have completed NAVY 100 (Introduction to Naval Science) and NAVY 101 (Seapower and Maritime Affairs) for background prior to this course. The four-year curriculum track for NROTC scholarship students is designed for enrollment of midshipmen/students to this course who are in their sophomore year of collegiate study. Course completion for students participating in NROTC on two- or three-year curriculum tracks will be accepted pending referral from NROTC Academic Advisors. NROTC scholarship students must complete the Navigation course prior to participating in the "First Class Midshipmen Cruise," a month-long training program undertaken between the junior and senior years of college.

f) **Explain the appropriateness of the recommended course preparation(s) and prerequisites(s).** This class is one of the required naval science courses required for completion of the commissioning requirements for the NROTC scholarship, however, it is open to all UMBC students with permission from the Professor of Naval Science.

g) **Explain the reasoning behind the P/F or regular grading method.** Students are able to take a pass/fail course only after they have completed 30 or more credits. Because this class is a core course within the student's Naval Science curriculum continuum, it should only be available as a course with a regular grading method.

h) **Provide a justification for the repeatability of the course.** The Navigation course will be offered once per academic year, dependent on the availability of classrooms and associated resources. It is a core course in the NROTC curriculum continuum, and must be completed with a grade of C or higher. Students may repeat the course only one time, consequent to academic review by the Professor of Naval Science.

**ATTACH COURSE OUTLINE (mandatory):**