Students may enroll in the Naval Reserve Officers’ Training Corps (NROTC) program as scholarship or non-scholarship students.

An academic minor in Naval Science is also available to all Rice students in undergraduate degree-granting programs. The faculty and instructors in the program consist of active-duty military officers.

Minor

- Minor in Naval Science (https://ga.rice.edu/programs-study/departments-programs/interdisciplinary/naval-science/naval-science-minor/)

Naval Science does not currently offer an academic program at the graduate level.

Program Chair
Jeff Bowman, USN

Advisors
Daniel Collins, USMC
Emily Konoza, USN
Adam Winters, USN

Professor in the Practice
Jeff Bowman, USN

Adjunct Professors in the Practice
Daniel Collins, USMC
Emily Konoza, USN
Eric Kroeger, USMC
Adam Winters, USN

For Rice University degree-granting programs:
To view the list of official course offerings, please see Rice's Course Catalog (https://courses.rice.edu/admweb/ISWKSCAT.cat?p_action=cata)
To view the most recent semester’s course schedule, please see Rice's Course Schedule (https://courses.rice.edu/admweb/ISWKSCAT.cat)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Short Title</th>
<th>Department</th>
<th>Grade Mode</th>
<th>Course Type</th>
<th>Credit Hours</th>
<th>Restrictions</th>
<th>Course Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAVA 238</td>
<td>SPECIAL TOPICS</td>
<td>SPECIAL TOPICS</td>
<td>Naval Science</td>
<td>Standard Letter</td>
<td>Internship/Practicum, Laboratory, Lecture, Seminar, Independent Study</td>
<td>1-4</td>
<td>Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.</td>
<td>Undergraduate Lower-Level</td>
<td>Topics and credit hours may vary each semester. Contact department for current semester's topic(s). Repeatable for Credit.</td>
</tr>
<tr>
<td>NAVA 301</td>
<td>NAVIGATION I</td>
<td>NAVIGATION I</td>
<td>Naval Science</td>
<td>Standard Letter</td>
<td>Lecture/Laboratory</td>
<td>3</td>
<td>Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.</td>
<td>Undergraduate Upper-Level</td>
<td>Marine navigators and laws of vessel operations. Includes coastal piloting, navigational aids, nautical astronomy, satellite and inertial systems, and rules of the nautical road.</td>
</tr>
<tr>
<td>NAVA 302</td>
<td>NAVAL OPERATIONS AND SEAMANSHIP</td>
<td>NAVAL OPERATIONS &amp; SEAMANSHIP</td>
<td>Naval Science</td>
<td>Standard Letter</td>
<td>Lecture/Laboratory</td>
<td>3</td>
<td>Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.</td>
<td>Undergraduate Upper-Level</td>
<td>An analysis of ship movements, formations, and fleet operations; includes Rules of the Road, maneuvering board, tactical publications and communications.</td>
</tr>
<tr>
<td>NAVA 303</td>
<td>EVOLUTION OF WARFARE</td>
<td>EVOLUTION OF WARFARE</td>
<td>Naval Science</td>
<td>Standard Letter</td>
<td>Lecture/Laboratory</td>
<td>3</td>
<td>Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.</td>
<td>Undergraduate Upper-Level</td>
<td>Historical survey of the evolution of the conduct of warfare. Strategy, tactics, weapons, organization, and military leaders/thinkers are studied. Course is taught in the NROTC Building.</td>
</tr>
<tr>
<td>NAVA 304</td>
<td>NAVAL WEAPONS-NAVAL SHIP SYSTEMS II</td>
<td>NAVAL WEAPONS</td>
<td>Naval Science</td>
<td>Standard Letter</td>
<td>Lecture/Laboratory</td>
<td>3</td>
<td>Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.</td>
<td>Undergraduate Upper-Level</td>
<td>The theory and employment of weapons systems. The student explores the processes of detection, evaluation, threat analysis, weapon selection, delivery, guidance, and explosives. The physical aspects of radar and underwater sound are described in detail.</td>
</tr>
<tr>
<td>NAVA 402</td>
<td>LEADERSHIP AND ETHICS</td>
<td>LEADERSHIP AND ETHICS</td>
<td>Naval Science</td>
<td>Standard Letter</td>
<td>Lecture/Laboratory</td>
<td>3</td>
<td>Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.</td>
<td>Undergraduate Upper-Level</td>
<td>Leadership principles, with particular emphasis on ethics, human resources management, military law and discipline, and administration. The Capstone course for NROTC seniors. Recommended prerequisite(s): Spring semester of senior year.</td>
</tr>
<tr>
<td>NAVA 403</td>
<td>NAVAL ENGINEERING</td>
<td>NAVAL ENGINEERING</td>
<td>Naval Science</td>
<td>Standard Letter</td>
<td>Lecture/Laboratory</td>
<td>3</td>
<td>Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.</td>
<td>Undergraduate Upper-Level</td>
<td>Ship propulsion systems, auxiliary systems, steering systems, electrical power distribution, ship design, ship stability and damage control measures.</td>
</tr>
<tr>
<td>NAVA 411</td>
<td>FUNDAMENTALS OF MANEUVER WARFARE</td>
<td>FUND OF MANEUVER WARFARE</td>
<td>Naval Science</td>
<td>Standard Letter</td>
<td>Lecture</td>
<td>3</td>
<td>Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.</td>
<td>Undergraduate Upper-Level</td>
<td>Mutually Exclusive: Cannot register for NAVA 411 if student has credit for NAVA 410.</td>
</tr>
</tbody>
</table>

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NAVA 477 - SPECIAL TOPICS
Short Title: SPECIAL TOPICS
Department: Naval Science
Grade Mode: Standard Letter
Course Type: Internship/Practicum, Lecture, Seminar, Laboratory
Credit Hours: 1-4
Restrictions: Enrollment is limited to Undergraduate, Undergraduate Professional or Visiting Undergraduate level students.
Course Level: Undergraduate Upper-Level
Description: Topics and credit hours may vary each semester. Contact department for current semester's topic(s). Repeatable for Credit.

Description and Code Legend
Note: Internally, the university uses the following descriptions, codes, and abbreviations for this academic program. The following is a quick reference:

Course Catalog/Schedule
• Course offerings/subject code: NAVA

Department (or Program) Description and Code
• Naval Science: NAVA

Undergraduate Minor Description and Code
• Minor in Naval Science: NAVA

CIP Code and Description 1
• NAVA Minor: CIP Code/Title: 28.0505 - Naval Science and Operational Studies

1 Classification of Instructional Programs (CIP) 2020 Codes and Descriptions from the National Center for Education Statistics: https://nces.ed.gov/ipeds/cipcode/