

# NAVAL SCIENCE, BNS

## REQUIREMENTS

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The College of Engineering recommends candidates for the Bachelor of Naval Science degree. Requirements for the degree are:

1. A total of 136 credits including no fewer than 100 credits of elected and required courses in one of the engineering curricula.
2. Completion of these additional requirements as approved by the Department of Naval Science: English, two semesters; American Military Affairs/National Security Policy, one semester (see below).
3. Also, to be conferred a BNS degree, the candidate must satisfy the degree requirements for *any* Engineering major, and the above-stated Naval Science requirements.

Earning both the BNS degree and the BS in the field of engineering may require five years. Engineering students in an ROTC program may require four and one-half to five years to complete both degree and commissioning requirements.

### REQUIRED COURSES:

| Code  | Title  | Credits |
|---|--|---------|
| Naval Laboratory (1 cr each):   |  | 8-10    |
| NAV SCI 175   | Introductory Naval Laboratory I                  |         |
| NAV SCI 176   | Introductory Naval Laboratory II                 |         |
| NAV SCI 275   | Elementary Naval Laboratory I                    |         |
| NAV SCI 276   | Elementary Naval Laboratory II                   |         |
| NAV SCI 375   | Intermediate Naval Laboratory I                  |         |
| NAV SCI 376   | Intermediate Naval Laboratory II                 |         |
| NAV SCI 475   | Advanced Naval Laboratory I                      |         |
| NAV SCI 476   | Advanced Naval Laboratory II                     |         |
| NAV SCI 575   | Professional Naval Laboratory I <sup>1</sup>     |         |
| NAV SCI 576   | Professional Naval Laboratory II <sup>1</sup>    |         |
| NAV SCI 101   | Introduction to Naval Science                    | 2       |
| NAV SCI 102   | Seapower-Maritime Affairs <sup>2</sup>           | 3       |
| NAV SCI 201   | Naval Leadership and Management                  | 3       |
| NAV SCI 402   | Naval Leadership and Ethics                      | 3       |
| Six credits of English. Must be writing-intensive and focus on areas of grammar and composition. Accepted courses include those designated COM A or COM B |  | 6       |
| Three credits of American Military History or National Security Policy. Accepted courses include:   |  | 3       |
| POLI SCI 104  | Introduction to American Politics and Government |         |
| POLI SCI 140  | Introduction to International Relations          |         |
| POLI SCI 160  | Introduction to Political Theory                 |         |
| POLI SCI/<br>LEGAL ST 217   | Law, Politics and Society                        |         |
| POLI SCI 347  | Terrorism  |         |
| POLI SCI 348  | Analysis of International Relations              |         |

|              |   |
|--------------|---|
| POLI SCI 356 | Principles of International Law             |
| POLI SCI 377 | Nuclear Weapons and World Politics          |
| HISTORY 427  | The American Military Experience to 1902    |
| HISTORY 428  | The American Military Experience Since 1899 |
| MIL SCI 491  | American Military History                   |

Completion of one of the following tracks:

#### Navy-Option Track:

|             |                   |
|-------------|-------------------|
| NAV SCI 202 | Navigation        |
| NAV SCI 301 | Naval Engineering |
| NAV SCI 302 | Naval Weapons     |
| NAV SCI 401 | Naval Operations  |

Six credits of calculus to include a first- and second-semester course <sup>3</sup>

Six credits of calculus-based physics to include a first- and second-semester course <sup>3</sup>

Three credits of World Culture and Regional Studies. Must have an emphasis on regions encompassed by Sub-Saharan Africa, North Africa, Central Asia, East Asia, South Asia, Southwest Asia, Southeast Asia, Central America, Middle East, or Russia/Eastern Europe

#### Marine Corps-Option Track:

|             |                                  |
|-------------|----------------------------------|
| NAV SCI 350 | Fundamentals of Maneuver Warfare |
| NAV SCI 351 | Land Campaigns                   |

<sup>1</sup> Add NAV SCI 575 Professional Naval Laboratory I if taking a 9th semester, NAV SCI 576 Professional Naval Laboratory II if taking a 10th semester.

<sup>2</sup> May substitute HISTORY 428 The American Military Experience Since 1899.

<sup>3</sup> AP/IB/Transfer credits accepted only for first-semester course.