

**Groton Public Schools  
Curriculum Map**

INTRODUCTION

**Course Title:** Naval Science Four (NS-4)  
**Curriculum Area and Grade:** Navy National Defense Cadet Corps (NNDCC)/NJROTC

Course Purpose:

**Prerequisite:** Naval Science III, SNSI approval, or transfer from other JROTC program.

This course is the continued study of more effective leadership and communication skills. The curriculum includes two areas of study: (1) leadership theory with studies of ethics and morals, and leadership case studies, and (2) the leadership laboratory with possible assignments to position of authority and responsibility of other cadets. Independent study by individual cadets in the areas of their interest in naval and leadership topics are required as specified by the Naval Science Instructors are included in this course.

Major Learning Goals and Understandings:

Student Learning Expectation(s):

- Understand basic military law and the Uniform Code of Military Justice
- Understand international law as it applies to naval vessels underway and in port.
- Understand safe navigation and rules of the road.
- Understand ship construction and basic damage control on a naval vessel
- Personal Project approved by the Lead/SNI

**Units/Theme/Concept and # of Weeks**

Quarter = 9 weeks, Semester=18 weeks, Trimester= 12 weeks, Year=36 weeks --- usually spread over 40 weeks

Unit 1- Military Law	Unit 2 – International Law and The Sea
Unit 3 – Navigation and Rules of the Road	Unit 4 – Ship Construction, Damage Control, Deck Seamanship
Unit 5 – Select Senior Reading and Senior Project/Research	Unit 6: General Military Training (GMT)

**Mappers/Authors:** LCDR Terance Henkle USN-Ret

Date Approved:

**Unit 1 - Military Law**

<b>Grade:</b> 12	<b>Subject:</b> NNDCC/NJROTC	<b>Course:</b> Naval Science Four (NS 4)	<b>Length of Unit:</b> 6 weeks
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**NNDCC/NJROTC Standards**

- Introduction to the Navy Junior Reserve Officer Training Corps (NS-3/4 Textbook)
- Ethics for the Junior Officer
- Cadet Field Manual (11th Edition revised) NAVEDTRA 37116-K
- Cadet Reference Manual
- The Bluejacket’s Manual

**Part 2 – Unit Standards**

**Key Performance Expectations (Content Knowledge and Concepts/Skills)**

<p>The students will know:</p> <ol style="list-style-type: none"><li>1. History of Law Codes</li><li>2. The U.S. Constitution and Military Law</li><li>3. Navy Regulations</li><li>4. Uniform Code of Military Justice (UCMJ)</li><li>5. Nonjudicial Punishment</li><li>6. Military Court Martial</li><li>7. Civil Jurisdiction and members of the armed services</li><li>8. Consequences for Other Than Honorable Discharge.</li></ol>	<p>The students will be able to explain or define:</p> <ol style="list-style-type: none"><li>1. Why must discipline be handled in a consistent manner?</li><li>2. What is the basic difference between arrest and restriction?</li><li>3. When are service personnel subject to civil law?</li><li>4. What five judgment possibilities exist for the commanding officer after hearing a mast case?</li><li>5. What are the three types of courts-martial, in ascending order of the severity of the punishments that may be awarded?</li><li>6. What is meant by a trial by a jury of peers?</li><li>7. Why is there a separate body of military law</li><li>8. Why must naval personnel be familiar with the UCMJ?</li><li>9. What is the basic requirement of both military and civil law pertaining to individual rights?</li><li>10. Which three publications explain all matters concerning U.S. military law?</li></ol>
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**Big Idea**

- **Big Ideas**
  - US service members fall under civil authority and the Uniform Code of Military Justice (UCMJ)
  - Are military service members subject to civil and military laws
  - What happens to a service member that is discharged with another than honorable discharge
  - Is military justice as fair as civil justice system

**Part 3 – Common Unit Assessments**

- NNDCC academics
- Formative and Summative assessments
- Self-assessment: Review / grade own work; reflections
- Peer assessment: Peer feedback/input
- Personal Inspection
- Drill (not drill teams)
- Projects/Homework/Research
- Physical fitness participation.

**Part 4 – Common / Assured Learning Experiences**

Students will participate in:

- Group activities
- Modeling
- Peer assessment
- Monitoring, guidance, support
- Student-led class presentations
- Field work
- Encourage student leadership and teaching
- Direct instruction

**Unit 2 - International Law and The Sea**

<b>Grade:</b> 12	<b>Subject:</b> NNDCC/NJROTC	<b>Course:</b> NS 4	<b>Length of Unit:</b> 6 weeks
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**Unit 2:**

- Introduction to the Navy Junior Reserve Officer Training Corps (NS-1 Textbook)
- Ethics for the Junior Officer
- Cadet Field Manual (11th Edition revised) NAVEDTRA 37116-K
- The Bluejacket’s Manual

**Part 2 – Unit Standards**

**Key Performance Expectations (Content Knowledge and Concepts/Skills)**

<p>The students will know</p> <ol style="list-style-type: none"> <li>1. Fundamentals of International Law</li> <li>2. International Law of the Sea</li> </ol>	<p>The students will be able to:</p> <ol style="list-style-type: none"> <li>1. What are the official representatives of our government in foreign capitals called?</li> <li>2. What is the body of rules that have evolved to regulate many of the relations between nations called?</li> <li>3. What aspect of international law pertains to relations between sovereign states?</li> <li>4. How does the U.S. Constitution regard international treaties?</li> </ol>
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<p>3. The Law of War at Sea</p> <p>4. Geneva Conventions</p>	<p>5. What is diplomacy?</p> <p>6. Where did the principles of early international law originate?</p> <p>7. What are internal or inland waters?</p> <p>8. What are territorial waters?</p> <p>9. What are archipelagic waters?</p> <p>10. What are contiguous zones?</p> <p>11. What are exclusive economic zones?</p> <p>12. A. What is meant by the term innocent passage?</p> <p>13. What is a significant difference between land and sea warfare as regards private and neutral property?</p> <p>14. Under the rules of warfare, what places, institutions, and ships are supposed to be exempt from attack?</p> <p>15. What are the Hague Convention rules concerning mines?</p> <p>16. What is the basic purpose of the rules of warfare?</p> <p>17. Under international law, what is the legal status of a war- ship when in a foreign port?</p> <p>18. What is the legal status of the officers and crew of a Navy ship on leave or liberty in a foreign port?</p> <p>19. Whys does the preservation of law and order on the high seas fall within the scope of international law?</p> <p>20. What requirements must be met under international law in order for a ship to be considered a warship?</p> <p>21. Students will understand the four treaties and associated protocols for the Geneva Convention as a military service member.</p>
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### Big Idea

- **Big Ideas**
  - Students will understand that within a conflict there are rules and treaties in place to protect non-combatants and to protect forces that have surrendered

### Part 3 – Common Unit Assessments

- NNDCC academics
- Formative and Summative assessments
- Self-assessment: Review / grade own work; reflections
- Peer assessment: Peer feedback/input
- Personal Inspection
- Drill (not drill teams)
- Projects/Homework/Research
- Physical fitness participation.

**Part 4 – Common / Assured Learning Experiences**

Students will participate in:

- Group activities
- Modeling
- Peer assessment
- Monitoring, guidance, support
- Student-led class presentations
- Field work
- Encourage student leadership and teaching
- Direct instruction

**Unit 3 – Navigation and Rules of the Road**

<b>Grade:</b> 12	<b>Subject:</b> NNDCC/NJROTC	<b>Course:</b> NS-4	<b>Length of Unit:</b> 6 weeks
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**NNDCC/NJROTC Standards**

- Introduction to the Navy Junior Reserve Officer Training Corps (NS-4 Textbook)
- Knight's Modern Seamanship
- Dutton's Navigation and Piloting
- Navigation Rules, International-Inland
- Seamanship: Fundamentals for The Deck Officer
- Cadet Field Manual (11th Edition revised) NAVEDTRA 37116-K
- The Bluejacket's Manual

**Part 2 – Standards**

**Key Performance Expectations (Content Knowledge and Concepts / Skills)**

<p>The students will know:</p> <ol style="list-style-type: none"> <li>1. Introduction to Navigation</li> <li>2. Marine Navigation</li> <li>3. Aids to Navigation</li> <li>4. Nautical Rules of the Road</li> </ol>	<p>The students will be able to:</p> <ol style="list-style-type: none"> <li>1. What is navigation?</li> <li>2. Who operates and maintains the GPS system?</li> <li>3. What are aids to navigation?</li> <li>4. What are the three principal phase characteristics of navigational lights?</li> <li>5. What is the purpose of buoys and beacons?</li> <li>6. What is the purpose of the rules of the road?</li> <li>7. What running lights must a vessel show at night and in poor visibility conditions by day?</li> <li>8. What are the two sets of rules governing the nautical rules of the road?</li> </ol>
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### **Big Idea**

- **Big Ideas**
  - What is latitude?
  - What is longitude?
  - What are running lights?
  - What are navigational buoys or beacons?
  - What are the rules of the road for all vessels?

### **Part 3 – Common Unit Assessments**

- NNDCC academics
- Formative and Summative assessments
- Self-assessment: Review / grade own work; reflections
- Peer assessment: Peer feedback/input
- Personal Inspection
- Drill (not drill teams)
- Projects/Homework/Research
- Physical fitness participation.

**Part 4 – Common / Assured Learning Experiences**

Students will participate in:

- Group activities
- Modeling
- Peer assessment
- Monitoring, guidance, support
- Student-led class presentations
- Field work
- Encourage student leadership and teaching
- Direct instruction

**Unit 4 - Ship Construction, Damage Control, Deck Seamanship**

<b>Grade:</b> 12	<b>Subject:</b> NNDCC/NJROTC	<b>Course:</b> NS-4	<b>Length of Unit:</b> 6 weeks
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**NNDCC/NJROTC Standards**

- Introduction to the Navy Junior Reserve Officer Training Corps (NS-1 Textbook)
- Cadet Field Manual (11th Edition revised) NAVEDTRA 37116-K
- The Bluejacket's Manual

**Part 2 – Standards**

**Key Performance Expectations (Content Knowledge and Concepts / Skills)**

<p>The students will know:</p> <ol style="list-style-type: none"> <li>1. Deck Seamanship</li> <li>2. Marlinspike Seamanship</li> <li>3. Anchoring, Mooring, and Underway Replenishment</li> <li>4. Small Boat Seamanship</li> <li>5. Knight's Modern Seamanship</li> <li>6. Dutton's Navigation and Piloting</li> <li>7. Navigation Rules, International-Inland</li> <li>8. Seamanship: Fundamentals for The Deck Officer</li> </ol>	<p>The students will be able to:</p> <ol style="list-style-type: none"> <li>1. What is deck seamanship?</li> <li>2. Which shipboard department is concerned with seamanship as its primary duty?</li> <li>3. What is marlinspike seamanship?</li> <li>4. What is the distinction between line and rope in the Navy?</li> <li>5. What is the equipment associated with anchoring called?</li> <li>6. What is the machinery used to weigh the anchor and its cable called?</li> <li>7. What are the parts of a boat/ship?</li> </ol>
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### **Big Idea**

- **Big Ideas**
  - This unit is the safe handling and navigation of small and large vessels

### **Part 3 – Common Unit Assessments**

- NNDCC academics
- Formative and Summative assessments
- Self-assessment: Review / grade own work; reflections
- Peer assessment: Peer feedback/input
- Personal Inspection
- Drill (not drill teams)
- Projects/Homework/Research
- Physical fitness participation.

### **Part 4 – Common / Assured Learning Experiences**

- Students will participate in:
- Group activities



- Modeling
- Peer assessment
- Monitoring, guidance, support
- Student-led class presentations
- Field work
- Encourage student leadership and teaching
- Direct instruction

**Unit 5 – Select Readings and Senior project**

<b>Grade:</b> 12	<b>Subject:</b> NNDCC/NJROTC	<b>Course:</b> NS 4	<b>Length of Unit:</b> 6 weeks
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**Unit 2:**

- NS-4, Selected Readings in Naval Leadership For The NJ Student
- Ethics for the Junior Officer
- Cadet Field Manual (11th Edition revised) NAVEDTRA 37116-K
- The Bluejacket’s Manual

**Part 2 – Unit Standards**

**Key Performance Expectations (Content Knowledge and Concepts/Skills)**

<p>The students will know</p> <ol style="list-style-type: none"> <li>1. Thinking Ethically</li> <li>2. Leadership Group Dynamics</li> <li>3. Positive Leadership Techniques</li> <li>4. Leading by Example</li> <li>5. Criticism and the Naval Officer</li> <li>6. Effective Communication</li> <li>7. Communication a Two-way Exchange</li> <li>8. Avoiding Communication Pitfalls</li> </ol>	<p>The students will be able to:</p> <ol style="list-style-type: none"> <li>1. Leaders are challenged to exercise an ethical code.</li> <li>2. Leaders must preserve the practice of telling the truth.</li> <li>3. Leaders are not only required to act properly in accordance with “Standards of Conduct” regulation, they are expected to know them so well they can recognize unethical behavior in others.</li> <li>4. Try to use the chain of command to resolve problems.</li> <li>5. An indifferent attitude by leaders toward alcohol and drug abuse cannot be tolerated. Adequate education and training must be conducted.</li> <li>6. The organization’s climate can adversely affect all aspects of operations and spill over into member’s personal lives.</li> <li>7. Religious, racial, sexual, and ethnic biases are not ethical whether they are the basis for positive or negative personnel action.</li> <li>8. Treat others as you would like to be treated.</li> <li>9. Don’t talk negatively about anyone in front of his or her peers, especially when they are not present.</li> <li>10. What influences people in a group?</li> <li>11. A command must be definite.</li> <li>12. A command must be positive. It must be given in a tone of voice that leaves no doubt that it is to be executed.</li> </ol>
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|  | <p>13. The leader must look at subordinates when giving them a command.</p> <p>14. A command must be concise. It must not be so long or involved that it cannot be remembered.</p> |
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- **Big Ideas**

- Leadership starts with first being a follower. Overtime, whether an enlisted or officer there will be greater responsibility to lead people within your unit or organization.
- Leadership can be defined as Giving commands, Giving orders, Getting cooperation, Establishing discipline, Improving morale that is low because of feelings of insecurity, Improving morale that is low because of feelings of lack of recognition and Properly using organization and administration

### **Part 3 – Common Unit Assessments**

- NNDCC academics
- Formative and Summative assessments
- Self-assessment: Review / grade own work; reflections
- Peer assessment: Peer feedback/input
- Personal Inspection
- Drill (not drill teams)
- Projects/Homework/Research
- Physical fitness participation.

### **Part 4 – Common / Assured Learning Experiences**

Students will participate in:

- Group activities
- Modeling
- Peer assessment
- Monitoring, guidance, support
- Student-led class presentations
- Field work
- Encourage student leadership and teaching
- Direct instruction

**Unit 6 - General Military Training (GMT)**

<b>Grade:</b> 12	<b>Subject:</b> NNDCC/NJROTC	<b>Course:</b> NS-4	<b>Length of Unit:</b> 9 weeks
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**NNDCC/NJROTC Standards**

- Cadet Field Manual (11th Edition revised) NAVEDTRA 37116-K
- The Bluejacket’s Manual

**Part 2 – Standards**

**Key Performance Expectations (Content Knowledge and Concepts / Skills)**

<p>The students will know:</p> <ol style="list-style-type: none"><li>1. NJROTC Uniform Regulations</li><li>2. Personnel Inspection</li><li>3. NJROTC Rates/Ranks and U.S. Navy Rates/Ranks</li><li>4. Military Chain Of Command</li><li>5. Military Customs, Courtesies, Etiquette and Ceremonies.</li><li>6. Orders To The Sentry</li><li>7. Code of Conduct</li><li>8. UCMJ</li></ol>	<p>The students will be able to:</p> <ol style="list-style-type: none"><li>1. Understand how to properly wear the NNDCC/NJROTC uniform</li><li>2. Understand the rank structure within the unit and within the U.S. Navy</li><li>3. Understand the Chain of Command within the organization</li><li>4. Understand Customs, Courtesies, Etiquette and Ceremonies of the Naval Service</li><li>5. Understand the 11 General Orders of a sentry</li><li>6. Know preparatory commands for facing, marching commands as individuals, groups</li><li>7. Know how to present and march with “colors”</li><li>8. Know the grooming standards within the organization</li><li>9. Know the manual of arms with rifle or sword.</li></ol>
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**Big Idea**

- **Big Ideas**
  - See Part 2 above

### **Part 3 – Common Unit Assessments**

- NNDCC academics
- Formative and Summative assessments
- Self-assessment: Review / grade own work; reflections
- Peer assessment: Peer feedback/input
- Personal Inspection
- Drill (not drill teams)
- Projects/Homework/Research
- Physical fitness participation.

### **Part 4 – Common / Assured Learning Experiences**

Students will participate in:

- Group activities
- Modeling
- Peer assessment
- Monitoring, guidance, support
- Student-led class presentations
- Field work
- Encourage student leadership and teaching
- Direct instruction