



Georgia Institute of Technology
Department of Naval Science
Fall 2026 NS 4320
Naval Operations and Seamanship

*"The mark of a great shiphandler is never getting into situations that require great shiphandling."
Admiral Ernest King, USN.*

Course and Instructor Information

Tuesday and Thursday, 0800-0915	Instructor: LT Marissa deHaas
Navy Classroom (Rm 210)	Email: mdehaas3@gatech.edu
3 Credit Hours	Phone: (404) 385-8149
Prerequisite(s): NS 2323 Navigation	

Course Overview

NS-4320 is a continued study of relative motion, formation tactics, and ship employment. Introductions to Naval operations and operations analysis, ship behavior and characteristics in maneuvering, applied aspects of ship handling, afloat communications, Naval command and control, Naval warfare areas, and joint warfare are also included. The course is supplemented with a review/analysis of case studies involving moral/ethical/leadership issues pertaining to the concepts listed above.

Course Materials

The American people have provided the texts required for this course. As such, these books must be returned in satisfactory condition – NO HIGHLIGHTERS OR PENS.

Required Texts:

- Dutton's Nautical Navigation. 15th ed. Annapolis, MD. U.S. Naval Institute Press, 2004. (NROTC Provided)
- Watch Officer's Guide 16th ed. Annapolis, MD. U.S. Naval Institute Press, 2020. (NROTC Provided)
- Strategy and Tactics. Annapolis, MD. U.S. Naval Institute Press, 2009. (NROTC Provided)

*You will be provided with a rolling ruler, a compass, and maneuvering board paper.

Additional study material (articles, videos, PowerPoints) are available on Canvas.



Evaluation Methods

Grades for this course are based upon classroom participation and the following grading:

<u>Assignments</u>	<u>Points</u>	<u>Grading Scale</u>
Exam 1	200	A 90-100%
Exam 2	200	B 80-89%
Quiz 1	25	C 70-79%
Quiz 2	20	D 60-69%
Quiz 3	30	F 0-59%
Quiz 4	30	
Quiz 5	25	
Quiz 6	25	
Quiz 7	25	
Quiz 8	25	
Assignment 1	25	
Assignment 2	20	
ROR Exam	50	
Participation	100	
Battle Problem	200	
Total	1,000	

Class participation. Class participation is a critical component of the classroom environment, this includes your ability to enter educated discussions on the subject matter. As part of this requirement, you are assigned readings to build a foundation for discussion. You will be required to present your work, analyze and critique the work of your classmates, and work in groups to refine your answers. The combined work and your effort to participate in group discussion contribute to your final grade.

Examinations/Quizzes. Two sectional exams, one Rules of the Road exam and weekly quizzes will be administered during this course. Quizzes will cover new material and are a progressive gauge to determine if you are ready for the exam. Both exams and quizzes will be in- person.

Final Battle Problem. Further guidance will be provided regarding format, grading criteria, and topic selection. The purpose of this assessment method is to develop students' ability to gather accurate and relevant facts, think critically, draw original conclusions, and learn to communicate them in an intelligent manner.



Policies

Academic Integrity

Georgia Tech aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards. For information on Georgia Tech's Academic Honor Code, please visit

<http://www.catalog.gatech.edu/policies/honor-code/> or <http://www.catalog.gatech.edu/rules/18/>.

Any student suspected of cheating or plagiarizing on a quiz, exam, or assignment will be reported to the Office of Student Integrity, who will investigate the incident and identify the appropriate penalty for violations.

Use of Generative Artificial Intelligence (AI) Tools

You may use generative AI programs, e.g. ChatGPT, to help generate ideas and brainstorm. You should be aware that the material generated by these programs may be inaccurate, incomplete, biased or otherwise problematic. Also, use of these tools may stifle your own independent thinking and creativity.

Generative AI derives its output from previously created texts from other sources that the models were trained on yet doesn't cite sources. Per GaTech's Honor Code, you may not submit any work generated by an AI program as your own. If you include material generated by an AI program, it should be cited like any other reference material (with due consideration for the quality of the reference, which may be poor). When/if you use AI platforms in your assignments, please write a note to clarify where in your process you used AI, include the prompt used to generate the material, and which platform(s) you used. See this article for how to cite AI properly: How to cite ChatGPT <https://apastyle.apa.org/blog/how-to-cite-chatgpt>

Accommodations for Students with Disabilities

If you have learning needs that require some adaptations for you to succeed in this course, please contact the Office of Disability Services on campus (<https://disabilityservices.gatech.edu/>). I am happy to arrange to accommodate your learning needs based on their recommendations.

Late Work / Extensions for Assignments

Work that is submitted past the assigned due date will be penalized 10% of the assignment's value per day that it is late. Extensions for assignments are generally not granted but will be considered. For cases of illness, death of a family member, birth of a child or some other exceptional circumstance, early communication is paramount.



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Attendance and/or Participation

Students are responsible for all material covered in their absences, and they are responsible for the academic consequences of their absences. Students should discuss planned absences with their instructors as soon as possible after the beginning of an academic term. Communicating all absences is key to success.

In the event of an illness that requires medical attention, students are responsible for contacting the Office of the Vice President for Student Life and Dean of Students as soon as possible to report the medical issue or emergency, providing dated documentation from a medical professional and requesting assistance in notifying their instructors.

Students who are absent because of participation in approved Institute activities (i.e. field trips, professional conferences, athletic events) will be permitted to make up for the work missed. Approval of such activities will be granted by the Student Academic and Financial Affairs Committee of the Academic Senate, and statement of the approved absence may be obtained from the Office of the Registrar.

Student-Faculty Expectations Agreement

At Georgia Tech we believe that it is important to strive for an atmosphere of mutual respect, acknowledgement, and responsibility between faculty members and the student body. See <https://catalog.gatech.edu/rules/22//> for an articulation of some basic expectations that you can have of me and that I have of you. In the end, simple respect for knowledge, hard work, and cordial interactions will help build the environment we seek. I encourage you to remain committed to the ideals of Georgia Tech while in this class.

Uniform and Appearance

Midshipmen shall arrive to class in the uniform of the day and well-groomed. I ask civilian students to adhere to a business-casual dress code.

Campus Resources for Students

The mental health of my students is one of my top priorities. In the event you do need help, please reach out to the Counseling Center at Georgia Tech. While I am willing and able to be a resource, I am required to report on anything I learn about that may threaten you or others in any way.

Counseling Center

- Crisis Line: 404.894.2575 (M-F 8 a.m. - 5 p.m.)
- After-hours counselors: 404.894.2204



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Title IX Compliance

Discrimination based on sex is prohibited by the Georgia Institute of Technology. This prohibition applies to students, faculty, staff, and all other members of the Institute community.

Complaints of sexual misconduct, including but not limited to nonconsensual sexual contact, sexual harassment, stalking, intimate partner violence, dating violence, and retaliation, shall be addressed as provided in Board of Regents Policy 6.7 (Sexual Misconduct Policy) and Policy 4.6.5 (Standards for Institutional Student Conduct Investigation and Disciplinary Proceedings) of the Policy Manual of the Board of Regents of the University System of Georgia. The Student Code of Conduct (Non-Academic Misconduct) may also apply where the Board of Regents policies are silent.

For more information regarding Title IX and reporting an offense, please visit <https://policylibrary.gatech.edu/student-life/sexual-misconduct>.

Religious Accommodations

It is the policy of the University to excuse the absences of students that result from religious observances and to provide without penalty for the rescheduling of examinations and additional required classwork that may fall on religious holidays. Please inform me by the second week of class of any accommodation required for religious participation.

Alternate Date for Exams

Students that have valid requests for an alternate time or date for taking an exam shall discuss the matter with me at least one week prior to the exam in question. Requests not made within the one-week window are generally not granted. When they are, it is for situations where something very significant has happened that the student could not have foreseen – for example, a very serious illness or a death in the immediate family.

Submitted by:

Signed by:

Marissa deHaas

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LT M.N. DEHAAS

Approved by:

Henry Vasquez

CAPT H. S. VASQUEZ