

BRIDGE RESOURCE MANAGEMENT - MT 4133 FALL 2013 - SIMULATOR SYLLABI

A. COURSE OVERVIEW

The simulator work in this course will focus on Voyage Planning, Piloting, Bridge Team Management, and Watchstanding. Students will utilize skills acquired in Radar, ARPA, Coastal Navigation, Applied Shiphandling 1, ECDIS and GMDSS to effectively complete the Bridge Simulation scenarios presented. These scenarios will require thorough preparation, cohesive teamwork, and a skill level equivalent to that necessary to satisfy MT-4253 Watchkeeping Assessments.

The lecture portion of the simulator course will consist of one two-hour lectures each week for 13 weeks. Approximately every other week you will receive a quiz on your reading assignments, case study for the week and Rules of the Road. During the lecture periods we will review the assigned case study and discuss the designated topics related to Bridge Resource Management and shiphandling as described in the "Week Lecture" Lesson Plan.

You will spend six weeks attending the simulator portion of this course, and then alternate six weeks aboard the RANGER with that portion of the course. The RANGER Bridge Resource Management syllabi is a separate document. During the six weeks you are in the simulator portion of the course you will also participate in one simulation exercise taking place within the four-hour period allotted as described in the "Simulation Week (6)" Lesson Plan.

B. LEARNING OBJECTIVES:

- Further develop and solidify practical watchkeeping skills
- Further develop and solidify student practical navigational skills
- Ensure thorough knowledge and understanding of Bridge Resource Management principles.
- Prepare the student for knowledge understanding and proficiencies required to Maintain a Safe Navigational Watch using Bridge Resource Management as per STCW Table A-II/1 including:
 - OICNW-A2.7 & C7.4 Allocation, assignment and prioritization of resources
 - OICNW-A2.7 & C7.4 Effective Communication onboard and ashore
 - OICNW-A2.7 & C7.4 Assertiveness and Leadership, including motivation
 - OICNW-A2.7 & C7.4 Obtaining and Maintaining Situational Awareness
 - OICNW-A2.7 & C7.4 Consideration of Team Experience
 - OICNW-A2.6 - Proper use of ship reporting systems and VTS procedures
- Prepare the student for knowledge understanding and proficiencies required to safely perform the duties of an Officer in Charge of a Navigational Watch and participate as a Member of a Bridge Team in effective decision making, including:
 - OICNW-C7.5 Situation and risk assessment
 - OICNW-C7.5 Identifying and Considering Generated Options
 - OICNW-C7.5 Selecting Courses of Action
 - OICNW-C7.5 Evaluating Outcome Effectiveness

C. LEARNING OUTCOMES:

After successfully completing the course the student will:

- Demonstrate the ability to satisfactorily perform the duties of an Officer in Charge of a Navigational Watch.
- Demonstrate knowledge and understanding of the principles of ships' maneuvering characteristics
- Demonstrate ability to perform simple maneuvers and operations with varying vessels in a position of an Officer in Charge of a Navigational Watch
- Demonstrate ability to be a successful member of a Bridge Team and proper practices of Bridge Resource Management
- Demonstrate proper voyage planning principles and techniques.
- Satisfaction of the Knowledge and principles of Bridge Resource Management as required by STCW Table A-III/1.

D. PREREQUISITES:

As per USCG, Academy and Marine Transportation Department requirements, any student enrolled in this course must have previously successfully satisfied the following prerequisites:

- MT 3231 Applied Shiphandling One (Grade of 60 or better)
- MT 3222 ARPA (Grade of 70 or better and all ARPA assessments completed)

If you do not meet either or both of these prerequisites you are to notify the instructor immediately. Discovery of failure to comply with these prerequisite requirements at a later time, will result in a failing grade for the course, despite what your grade may have been.

Students taking this course are expected to be proficient in basic navigation elements: i.e. use of buoyage systems, determination of sunrise/sunset, determination of range of lights, determination of tides and currents for any given area, proper execution of Inland and International Navigation Rules of the Road, chartwork and use of DRs.

E. CLASS SCHEDULES

1. Class Assignments, Notices and Schedules are on Blackboard and are your responsibility to retrieve and monitor. It is your responsibility to immediately inform us if IT can not provide you access to Blackboard.
2. Cadets are responsible for the reading assignments provided with this syllabus, and will be tested on them when they are due, not after. **DO YOUR READING.**
3. Make-up for tests and examinations for authorized periods of absence will be scheduled (prior to the absence) for a mutually agreed upon time. Examinations missed as a result of an unauthorized absence will incur a **zero grade**.

F. ATTENDANCE & ABSENCES

1. Attendance at all classes is mandatory and tardiness will not be tolerated. Unauthorized absence will not be tolerated. **Disciplinary action and or grade point reduction** will be administered to policy offenders.
2. Notice of absence for any reason must be given to the instructor **prior** to the respective class. Remember that an individual absence can greatly impact other members of your team by forcing cancellation of an exercise due to insufficient personnel.

3. USCG course approval conditions for this course mandate each student to perform a MINIMUM of FOUR HOURS of self-study to adequately prepare for each scheduled session. I expect a full commitment by each student to fulfill those goals, whether you are acting individually or as a team member for each scenario. Understand that insufficient effort is easily detected and will not be tolerated.

G. GRADING POLICY

1. In accordance with the Mass Maritime Academy academic policy, the minimum passing grade for Bridge Resource Management: ***SIMULATOR and RANGER*** is 60%.
2. However, as this course satisfies a portion of your STCW requirements for licensing, in order to receive credit for the knowledge-based components of STCW for this subject, it is necessary to obtain a grade of 70% for your combined grade.
3. Those who receive a combined grade of 60-69% ***must retake*** Applied Shiphandling Two in order to satisfy their STCW requirements. *When repeating a course, any and all Practical Assessments embedded within the course must also be completed again, even though they may have been successfully passed during the first enrollment.*
4. Anyone receiving a grade below 60 in either the RANGER or SIMULATOR portion, satisfies neither prerequisites nor STCW requirements, and must also retake the course to satisfy both.
5. Grades will not be scaled.
6. The + - system will be used.
7. Applied Shiphandling Two grades will be comprised of two components: Simulator (weighted at 55%) and RANGER (weighted at 45%). As stated in Item 1 above, ***You must achieve at least a 60 in BOTH RANGER and SIMULATOR in order to pass this course.***
8. Simulator grades will be averaged based upon the following percentage values:
Weekly Quizzes: 25% Homework: 15% Final Exam: 25%
Simulator Performance: 35% (65% Team, 35% Individual) TOTAL: 100%
9. You should expect to have a quiz at the start of each session that is based upon the information contained within this syllabus Schedule.
10. You are expected to be thoroughly familiar with all performance standards that will be required of you during this course. If at any time you are unsure of what is expected of you, consult with me ASAP. I have attached a copy of the evaluation sheet used in your bridge simulator performance.

Cheating will not be tolerated and will incur a zero on the quiz/exam and disciplinary action.

H. ACCOMODATIONS -- Mass Maritime is committed to providing reasonable accommodations to students with documented disabilities. Students who believe they may need accommodations in this class are required to contact Professor Fran Tishkevich , Director of Disability Compliance, within the first two weeks of class. ftishkevich@maritime.edu ext. 2208, Room H311A (Harrington Bldg). Remember, you must notify me, ***in advance*** if you require accommodations for class or testing.

I. ASSESSMENTS

1. There is only one Practical Assessment that will be completed within the SIMULATOR PORTION of his course: Emergency Stop. (Copy of the control sheet will be provided). All other Practical Assessments are performed during the RANGER portion, and will be explained within the RANGER Syllabus.
2. Arrangements will be made for students to take this assessment, outside of the normal class hours at times convenient to the student and the instructor after Class Session 6.
3. Should a cadet fail to pass the practical assessments of the course: (RANGER and simulator) he/she will receive an incomplete for a grade until the assessments are successfully passed.
4. **You must obtain a minimum combined grade of 70% and successfully complete the one embedded practical assessment to receive STCW certification and gain entry into MT-4253 Watchkeeping.**

I. REQUIRED BOOKS – Homework Reading Assignments will indicate text by the following numbers:

1. Watchstanding - Guide for the Merchant Officer **2nd** Edition
2. Shiphandling for the Mariner 4th Edition
3. Shipboard Bridge Resource Management - Adams
4. Navigation Rules
5. Bridge Resource Management for Small Ships – Parrott

Students are expected to be familiar with all sections of the following publications: FMSS Bridge procedures, Standing Orders; List of Lights; Coast Pilots; Radio Aids to Navigation; Sailing Directions (Enroute & Planning Guides); Catalog of Nautical Charts & Publications. These materials are available in the library on closed reserve and some are in the Bridge Simulator Briefing Room. Many publications are now on line as well. You are NOT PERMITTED to remove ANY materials from the simulator or the briefing room without my permission. Manuals for all equipment will be provided. If you need to re-familiarize yourself with the simulator equipment, see me Mr. Mike Vernazzaro or Mr. Brian Murphy for the appropriate manual for review in the Bridge Simulator Briefing Room. Plan ahead - DO NOT wait.

Check BlackBoard prior to each class for assignments, tip offs and notes.

Instructor: Captain Craig Dalton

Office: # 317A

Phone: 830-5000 ext. 1951

e-mail cdalton@maritime.edu

Office Hours: Mondays & Wednesday 1300- 1350 and Wednesdays 1400-1450.
or **any other time by appointment.**