

# MASSACHUSETTS MARITIME ACADEMY

## BRIDGE RESOURCE MANAGEMENT

### MT-4133 SPRING 2022

## LECTURE COMPONENT

**CDR John Belle**

[jbelle@maritime.edu](mailto:jbelle@maritime.edu)

**Office: Harrington 317A**

**508-830-5330**

**Office Hours: Mon, Wed., Thurs. 1400-1450**

This syllabus contains information regarding the Lecture portion of Bridge Resource Management. It includes the lesson topics and assignments for each week's class meeting. This syllabus works in conjunction with the overall BRM Classroom Policy and Procedures Syllabus, the Simulation Syllabus, and the Ranger Syllabus.

With the exception of quizzes administered on the Ranger, all testing will be conducted during the Lector portion of the course.

An all-encompassing Final Examination including Lecture, Simulator, and Ranger material will be given during final week as scheduled by the Register's Office for your lecture section. This final examination will make up 20% of the student's overall course grade.

The Lecture component of BRM makes-up 20% of the student's overall grade for the course. Lecture grading will consist of:

|  |     |
|--|-----|
| Class Attendance, Participation and Discussion | 10% |
| Weekly Reading Quizzes                         | 30% |
| Tests  | 60% |

Very Short Quizzes covering the reading assignment for the week will be given each meeting when there is not a test scheduled. Three unit tests are expected for the semester. Tests will be announced and scheduled when they best fit the material covered.

### **Required** Textbooks:

*Bridge Resource Management (BRM) for Small Ships*, Parrott: (Book or ebook)

Both tests are available in the MMA School Bookstore.

Additional materials will be supplied by the instructor and/or posted on Blackboard

# **BRM Lecture (MT-4133) SPRING 2022**

## **LECTURE 1 - BRM – The Human Factor/Element**

READING ASSIGNMENTS ***PRIOR TO*** LECTURE 1

- Text 1 – BRM by Parrott – Read Prologue, Introduction and Planning Pages ix through page 4
- Article, Bridge Management and Teamwork by Capt. Richard Beadon (available in the Resources area of Blackboard)
- Review Syllabus for lectures (Posted on blackboard)

CLASSROOM TOPICS: What is BRM – BRM History, Human Factor/Element, Error Chain Introduction  
Bridge Resource Management Video - Videotel

CASE STUDY - ROYAL MAJESTY

## **LECTURE 2 - MENTAL MODELS – Passage Planning and Procedures**

READING STUDY ASSIGNMENTS ***PRIOR TO*** LECTURE 2:

- BRM for Small Ships – Parrott: Chapters 1, 2, 3(pp.26-32), & 4

CLASSROOM TOPICS:

Voyage Planning, Arrival & Departure, Checklists, Watch Conditions, Calling the Master, SOPs, Creating a Mental Model

CASE STUDIES (All from text) :

- Tug SCANDIA
- SAFARI SPIRIT

## **LECTURE 3 - Situational Awareness**

READING STUDY ASSIGNMENTS ***PRIOR TO*** LECTURE 3:

- BRM for Small Ships – Parrott: Pages 32-40, 61-62

CLASSROOM TOPIC: Situational Awareness, Voyage Monitoring

CASE STUDY REVIEW: ROYAL MAJESTY

CASE STUDIES

- USS DWIGHT D. EISENHOWER

# **BRM Lecture (MT-4133) SPRING 2022**

## **LECTURE 4 - Stress**

READING STUDY ASSIGNMENTS ***PRIOR TO*** LECTURE 4.

- BRM for Small Ships – Parrott: Ch 7

CLASSROOM TOPIC: Stress

CASE STUDY:

- Tug MAUVILLA (From Text)

## **LECTURE 5 – Complacency and Distraction**

READING STUDY ASSIGNMENTS ***PRIOR TO*** LECTURE 5.

- BRM for Small Ships – Parrott: Chapters 5, 6 & 9

CLASSROOM TOPIC: Complacency and Distraction

CASE STUDIES:

- QUEEN OF THE NORTH – (From your text reading)
- M/V PRISILLA
- NAVIGATOR SCORPIO

## **LECTURE 6 - Fatigue**

READING STUDY ASSIGNMENTS ***PRIOR TO*** LECTURE 6.

- BRM for Small Ships – Parrott: Chapters 8 & 10

CLASSROOM TOPIC: Fatigue & Transition

CASE STUDIES:

- M/V WORLD PRODIGY
- SHEN NENG 1
- STAR PRINCESS
- Ferry A REGINA
- M/V JUMBO

# **BRM Lecture (MT-4133) SPRING 2022**

## **LECTURE 7 – Communications and Watch Relief**

READING STUDY ASSIGNMENTS **PRIOR TO** LECTURE 7.

- BRM for Small Ships – Parrott: Chapter 11

CLASSROOM TOPIC: Communications

CASE STUDY:

- BALSA 37 / FRED BOUCHARD COLLISION
- NOORDAM and MOUNT YMITOS

## **LECTURE 8 – Pilot Integration.**

READING STUDY ASSIGNMENTS **PRIOR TO** LECTURE 8.

CLASSROOM TOPIC: VHF Usage and Pilot Integration after Communications is finished

CASE STUDIES:

- BALSA 37, USCG BLACKTHORN, CAPRICORN
- FIGARO and CAMARGUE
- QE 2 GROUNDING

## **LECTURE 9 – Teamwork**

READING STUDY ASSIGNMENTS **PRIOR TO** LECTURE 9.

- BRM for Small Ships – Parrott: Chapter 12

CLASSROOM TOPIC: Teamwork

CASE STUDY REVIEW:

- NOORDAM and MOUNT YMITOS
- EMPRESS of the NORTH

## **LECTURE 10 – Leadership**

READING STUDY ASSIGNMENTS **PRIOR TO** LECTURE 10.

- BRM for Small Ships – Parrott: Chapter 13

CLASSROOM TOPIC: Teamwork (finish up) and Leadership , Videos – Why Leaders Eat Last & Turn the Ship Around

# **BRM Lecture (MT-4133) SPRING 2022**

## **LECTURE 11 – Decision Making and Intervention**

READING STUDY ASSIGNMENTS **PRIOR TO** LECTURE 11.

Vanity Fair Magazine article on EL FARO – Available under BLACKBOARD/ Resources/Case Studies.

CLASSROOM TOPIC: Decision Making – Intervention

Case Studies:

- EL FARO
- M/V SAGAMORE

## **LECTURE 12 – Error Types, Error Chains, Error Trapping**

READING STUDY ASSIGNMENTS **PRIOR TO** LECTURE 12:

- Text 1 – BRM for Small Ships – Parrott: Chapter 14 Pages 145-159

CLASSROOM TOPIC: Error Types, Chains and Trapping

CASE STUDY:

- EXXON VALDEZ

CASE STUDY REVIEW:

- USS EISENHOWER
- ROYAL MAJESTY
- EMPRESS of the NORTH
- BLACKHORN and CAPRICORN

**NOTE: Changes may be made to the Lesson Plans for Lectures at any time during the semester. Monitor BLACKBOARD for notifications of any changes.**