

## Marine Transportation ECDIS Course Syllabi (MT 3224)

**Credits:** 3

**Contact Hours:** 45

**Instructor:** Captain James J. Quinn, USN (ret.)

**Text:** (1) the Electronic Chart (with Training CD) Third Edition, Horst, Berking, Jonas & Alexander

(2) American Practical Navigator (Bowditch)

**Prerequisites:** Coastal Navigation (MT 1221 & 2121) Rules of the Road (MT 2161), ARPA (MT 3222) Waivers may be granted only by the MT Department Chair and will be granted for unusual circumstances. Cadets desiring a waiver must submit a written request specifying the circumstances that precluded meeting prerequisites and why they feel a waiver should be granted. Requests must be submitted via Capt Quinn to the Chairman of the Marine Transportation Department. All waivers must be submitted prior to convening date of the first ECDIS Class. Students will not be allowed to participate in class without express approval of the Chairman of Marine Transportation Department

1. **Course Overview:** The ECDIS Course of instruction is designed to familiarize the student with the principles of electronic chart systems and integrated bridge management systems. This course is designed to meet the requirements of ECDIS operator for the **Officer In charge Of the Navigational Watch**. Instruction will be by lecture, hands on ECDIS simulator exercises, assigned reading & homework. Course content covers theory of ECDIS, International Maritime Organization (IMO) Regulations and requirements for carriage of ECDIS, types of electronic charts, capabilities and Limitations of ECDIS systems, data presentations, passage planning, route monitoring, & integration of ARPA, GPS & AIS overlays. Upon successful completion of this course the student will receive a certificate for ECDIS operation and familiarization. Minimum passing grade is 70 % and completion of all STCW practical requirements.
2. **Learning Objectives:** Upon completion each student will be able to:

- a. Operate ECDIS and use the functions of the system for safe Navigation
  - b. Differentiate between Raster & Vector charts
  - c. Understand capabilities & limitations of ECDIS
  - d. Successfully demonstrate Basic ECDIS Tasks as listed in the Proficiency check list for the NaviSailor 3000 series
  - e. Successfully demonstrate all tasks associated with the overall ECDIS Presentation
  - f. Successfully demonstrate the intermediate tasks associated with proficiency check list of the NaviSailor 3000 series
  - g. Successfully demonstrate Navigator Tasks proficiency check list of the NaviSailor 3000 series
- 3. Uniform Requirements:** Uniform of the day is the only acceptable uniform. I may grant waivers on a case by case basis. Waiver requests must be submitted to me prior to class.
- 4. Absences:** Unexcused absences will not be tolerated. Cadets failing to attend class will be placed on report. More than two (2) unexcused absences will result in failure for this class. Excused absences may be granted by me, Dean of Academics and Department Chair. Note excusal by COMCAD for special liberty DOES NOT constitute an authorized absence. Students must make up all work missed during and excused absence.
- 5. Grades:** A minimum knowledge level grade of 70% (c-) must be achieved to complete this course. Additionally all STCW practical requirements must be completed. Grading will be:
- a. **Tests Midterm 30%**
  - b. **Final 30%**
  - c. **Homework/ quiz 20%**
  - d. **Practical STCW Demonstrations 20%**
    - i. **Successful Demonstration first attempt = 100**
    - ii. **Second attempt = 75%**
    - iii. **Third attempt = 0**
- 6. Learning Disabilities:** Any student requiring accommodation for learning disabilities must contact DR. Fran Tishkevich, MMA Disability Compliance Officer at ext 2208. Most accommodation can be met; however any STCW timed demonstration cannot be waived. Accommodations must be approved by the Disabilities Compliance Officer prior to implementing accommodations in class.
- 7. Additional instruction:** I am available for additional instruction; however this must be arranged ahead of time especially if use of the simulator is required. My Office hours are posted on blackboard and my office door. Additionally, I can be reached at my office phone extension 2110. My office is in the Bresnahan Building Room C305. My email is [jquinn@maritime.edu](mailto:jquinn@maritime.edu).

8. Successful completion of this course is determined by you the student. Do not fall behind, do the reading, ask questions when in doubt, and report to class ready to work and learn. Our mutual goal for this course is for each of you to enhance your professional watchstanding knowledge and become a licensed mate in the U. S. Merchant Marine. I look forward to working with you this semester.

J. J. Quinn  
Capt, USN (ret.)  
Master Mariner