

Boat Operation

Course Title

SE101

Dept. & Course No.

I. COURSE DESCRIPTION:

This course is designed to familiarize students with safe operation of outboard boats in order to break in engines and test engine repair. Pre: None (2 credit lect., 1 credits lab)

II. SEMESTER CREDITS: 3

III. CONTACT HOURS PER WEEK:	<u> 2 </u>	<u> 1 </u>	<u> 5 </u>
	Lec	Lab	Total

IV. PREREQUISITES: None **V. STUDENT LEARNING OUTCOMES:****VI. COURSE CONTENT:**

Upon completion of the course, the students will be able, with 70% accuracy, to:

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| <ol style="list-style-type: none"> 1. Explain and demonstrate the importance of codes for operating small boats. 2. Locate different types of uniform waterway markers and channel buoys. 3. Explain and apply the proper techniques of driving safely when taking off, passing another boat and approaching the dock. 4. Use a compass to show directions. 5. Maintain the appearance of the boat and keep the engine operating at its peak performance. | <ol style="list-style-type: none"> A. Water Safety <ol style="list-style-type: none"> 1. Palau codes 2. International codes 3. Water markers and buoys B. Safe Driving Techniques <ol style="list-style-type: none"> 1. Taking off procedures 2. Passing/right of way 3. Docking procedures C. Compass Use <ol style="list-style-type: none"> 1. North, East, South, West 2. North-East, North-West 3. South-East, South-West D. Maintenance <ol style="list-style-type: none"> 1. Routing cleaning of boat hull 2. Basic mechanics 3. Routine cleaning and lubrication of engines. 4. Factory recommendations for maintenance. |
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VII. MATERIALS AND EQUIPMENT

- A. Outboard motor boat
- B. Personal Floatation Devices
- C. 150 ft. 3/8 in. rope
- D. Compass

VIII. TEXTS

- A. Text(s): supplied by instructor

IX. METHODS OF INSTRUCTION

- A. Lectures
- B. Guest Speakers
- C. Laboratory work
- D. Demonstrations
- E. Reinforcement activities
- F. Application

X. METHOD OF EVALUATION

Four criteria considered when evaluating projects and performance

- 1. Accuracy
- 2. Techniques
- 3. Appearance
- 4. Completion

The components with corresponding weight in percent included in the computation of the final grade.

Attendance/participation.....	15%
Final Exam	15%
Mid-term	15%
Tests and Homework	10%
Projects	<u>45%</u>
	100%

Transmutation of percent to letter grade is as follows:

- 90 - 100 = A
- 80 - 89 = B
- 70 - 79 = C
- 65 - 69 = D
- 0 - 64 = F

TASK LIST

SE101 – Boat Operation

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Credits: 2 1 48
Lec. Lab Total Lab Hrs.

Student Learning Outcome 1-2

1. Demonstrate proper use of Palau and International safety codes. 6 hrs
2. Locate different types of uniform waterway markers (state & local).
3. Locate all channels buoys.

Student Learning Outcome 3

1. Take off smoothly. 16 hrs
2. Apply right-of way and right ways of passing boats.
3. Approach docks properly.

Student Learning Outcomes 4

1. Use compass to show directions. 3 hrs

Student Learning Outcome 5

1. Clean and wash boats 23 hrs
2. Service engines
3. Remove and change spark plugs.
4. Drain and change oil.
5. Lubricate all grease fittings with proper lubricant.
6. Keep program of routine maintenance

Total hours: 48

Note: Lab hours may be switched as necessary depending on class needs.

