

**Assessment of ABET OUTCOME  
EOC4422 OCEAN WAVE MECHANICS.**

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Fall 2011

OUTCOME ASSESSED	RUBRIC	SCORE		
		High (H)	Moderate (M)	Low (L)
I. an ability to apply knowledge of mathematics, science, and engineering	1. Uses mathematical and scientific principles to formulate models of processes in ocean engineering 2. Applies calculus /linear algebra to engineering problems 3. Relates theory to engineering applications 4. Can interpret mathematical and scientific terms	Yes in all 4 rubric categories	Yes in 2 or 3 rubric categories	Yes for less than 2 rubric categories
Source: BSOE Program Outcomes Assessment and Rubrics Document (original 12/22/2008; update 8/10/2011)				

Name	Score	Assessment Method and Scoring Rubric
1.	H	<b>Assessment Method:</b> The assessment is based on student's performance in the final examination which was a comprehensive examination covering both fundamental and applied aspects of the subject. To fare well in the examination, a student has to have all the skills listed in the rubric above.
2.	H	
3.	H	
4.	H	
5.	H	
6.	H	
7.	H	
8.	M	<b>NOTE:</b> The course grade was determined based on student's performance in the term projects, mid-term tests and lab experiments also which are not used for the present assessment. The final examination constituted 30% of the overall grade.
9.	H	
10.	H	
11.	H	
12.	H	
13.	H	
14.	M	
15.	H	<b>Performance criterion:</b> At least 75% of the class receives a score of Moderate or above
16.	H	
17.	M	
18.	H	
19.	H	
20.	H	
21.	H	
22.	H	<b>Summary:</b> 24 out 27 (> 85%) of the class obtained a score of high H and all the students (100%) score of M or above. The criterion is met. It should be added that 2011-12 BSOE class is one of the best classes that the instructor has seen over the years; the class as a whole has a good background in mathematics, science and basic engineering subjects.
23.	H	
24.	H	
25.	H	
26.	H	
27.	H	
<b>Note:</b> For privacy, the students' names are not given above; the instructor keeps a record of the student names.		<b>Steps (if any) taken for outcome improvement:</b> None