ANNUAL PROGRAM REPORT

1. SELF-STUDY

A. Five-year Review Planning Goals

The last comprehensive Program Review was the ABET Self-Study report which was prepared in July 2019. The next comprehensive Program Review will be the ABET Self-Study report which will be prepared by July 1st of 2025.

B. Five-year Review Planning Goals Progress

The mechanical engineering program has seven student outcomes (SO) which are to be assessed over a two-year period. SO 1, 2, 3, and 6 (Cycle 1) were assessed in 2018-19 year and the results were presented in the 2018-19 Annual Program Report. SO 4, 5, and 7 (Cycle 2) were supposed to have been assessed in 2019-20, but Covid-19 pandemic prevented the department from assessing these outcomes. Cycle 2 outcomes were assessed in 2020-21 and the results are presented in this report.

C. Program Changes and Needs

Courses Removed from Curriculum

Course Number	Course Name	Units	Change	Notes
EGL 120	Technical Communication	3	Removed and replaced by proposed Subarea A1 met in sequence.	Area A1 proposed to be met through sequence of courses within ME, starting with ENG 112
ME 339/ ME 339L	Material/Mechanical Lab and Material/ Mechanical Lab Lab	2/0	Removed and replaced by ME 462/ME 462L	Selected learning outcomes will be reassign3 (ov)10q ET Q q 127 -3 (E)4.4 (

Courses Added to the C urriculum

Course Number	Course Name	Units	Change	Notes
Subarea C1	Lower Division Arts & Humanities: Arts	3	Added to meet EO 1100. Students select from established list.	Added to 1st year roadmap. Enrollment will be division dependent. Will need to be offered in Fall and Spring.
Area C	Lower Division Arts & Humanities	3	Added to meet EO 1100. Students select from established list.	Added to 3rd year roadmap. May be taken Fall or Spring depending on option.
ENG 112	Introduction to Technical Communication	1	Added as a part of proposed Subarea A1 met in sequence. "C" grade (e.g. C- or better) required to pass the class.	Added to 1st year roadmap. Enrollment will be division dependent. Will need t regrab

2. SUMMARY OF ASSESSMENT

A. Program Student Learning Outcomes (SO)

All graduates receiving a Bachelor of Science in Mechanical Engineering degree from the Cal Maritime are expected to have:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics

2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors

3. an ability to communicate effectively with a range of audiences

4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions

7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

B. Program Student Learning Outcome(s) Assessed

Student outcomes 4, 5, and 7 were assessed in 2020-21.

C. Summary of Assessment Process

Instructor Course Assessment (ICA) is the primary tool used to measure achievement of student outcomes.

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D. Summary of Assessment Results

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