CAL MARITIME

ANNUAL PROGRAM REPORT

Academic Program	Marine Transportation
Reporting for Academic Year	2016-2017
Department Chair	Steve Browne
Date Submitted	11/28/2017

1. SELF-STUDY (about 1 page)

A. Five-year Review Planning Goals

The last department program review was completed in the Fall of 2016. The 2016 program review included the following specific recommendations:

Faculty:

- Rebuild the department tenure density in response to past and projected retirements. The department should hire at least three new tenure track faculty in the coming years.

- The department recommends that faculty starting salaries be increased and that the Marine Vocational Instructor track be reopened.

- A policy should be developed concerning the conversion from the MVI to the professor track.

Academic Advising Training and Manual: The MT department should produce an Academic Advising Manual, including Frequently Asked Questions, as a resource for advising guidelines and information. In addition, formal training should be conducted for new and current Academic Advisors in the department.

Assessment Plan: The department should complete its revision of a formal internal assessment review program, including the adoption of any changes and needed modifications for emerging new assessment criteria or new elements of the program to include.

STCW Program: The department should complete its revision of the STCW assessment program.

Simulation Program Review: The department should complete its review of the simulation courses and ensure that the scenarios and course material are up to date and appropriate for meeting the learning outcomes of the courses and the program.

Simulation Equipment Refresh: The department should work with the Director of Simulation to

update the simulation equipment in the Simulation Center and aboard the training ship. The Navigation Lab on the ship should include a Class A simulator with at least 225 degrees of visibility and surround sound. A Dynamic Positioning (DP) simulator should be obtained and installed.

Master's Program: The department should develop a master's degree with a license option to attract the large number of potential students who have previously completed bachelor degrees.

Maritime Management Program: The department should develop a non-license bachelor's program in Maritime Management.

School of MT/IBL/NS: The department should work closely with the International Business and Logistics and Naval Science departments to ensure a smooth transition to the new school.

B. Five-year Review Planning Goals Progress

Faculty: A tenure-track faculty was hired August 2017. Another hire is anticipated for August 2018.

Academic Advising Training and Manual: Completed. Training was conducted in October 2017. It should be conducted annually.

Assessment Plan: The plan is completed. Assessment is ongoing.

Simulation Equipment Refresh: In process.

Master's Program: Currently under development.

Maritime Management Program: Currently under development.

School of MT/IBL/NS: The Dean hiring process is in process.

C. Program Changes and Needs

The curriculum is currently under revision as necessitated by CSU Executive Order 1100. This involves a significant modification of the program's general education requirements.

The university recently decided to conduct only one training cruise per year instead of two. This will likely result in a reduced enrollment.

It is likely that several senior faculty will retire in the coming years.

2. **SUMMARY OF ASSESSMENT (about 1 page)**

A. Program Student Learning Outcomes

MT PLO 1: Discipline-Specific Knowledge: Graduates will demonstrate competence in the concepts and technologies of international marine transportation.

MT PLO 2: Leadership and Teamwork: Graduates will demonstrate the ability to work effectively as a leader and member in professional teams.

MT PLO 3: Communication: Graduates will demonstrate effective communication skills.

MT PLO 4: Ethical Awareness: Graduates will use ethical reasoning to make decisions related to the maritime industry.

MT PLO 5: Quantitative Reasoning: Graduates will demonstrate the ability to analyze numerical data.

MT PLO 6: Information Fluency: Graduates will define a specific need for information; then locate, evaluate, and apply the needed information.

MT PLO 7: Critical and Creative Thinking: Graduates will analyze problems in new and different ways.

Please list all outcomes in the box below, and append a curriculum map showing alignment of the Program Student Learning Outcomes and Institution-wide Student Learning Outcomes (IWSLOs

B. Program Student Learning Outcome(s) Assessed

MT PLO 1: Discipline-Specific Knowledge: Graduates will demonstrate competence in the concepts and technologies of international marine transportation.

MT PLO 5: Quantitative Reasoning: Graduates will demonstrate the ability to analyze numerical data.

C. Summary of Assessment Process

MT PLO 1: Discipline-specific knowledge was assessed through the Standards of Training, Certification, and Watchkeeping (STCW) assessment process. STCW assessment is conducted throughout the MT curriculum and individual student results for each assessment are logged with the date completed and the initials of the assessor. The assessments are conducted by the instructors of the course where the assessment occurred, and the documentation is kept in controlled filing cabinet in the Simulator Building.
Students must complete all STCW assessments prior to graduation, so the benchmark for this PLO is that 100 percent of students will successfully complete 100 percent of the STCW assessments prior to graduation.
The sampling size includes the entire senior MT class.

MT PLO 5: Quantitative reasoning was assessed in NAU 410, License Seminar. Data was collected from the USCG Mock License Exams, specifically from the Terrestrial Exam, where students must interpret and analyze numerical data.
The benchmark for this PLO is that 80 percent of students will achieve an 80 percent or better on the USCG Mock Terrestrial Exam.
The sampling size includes the entire senior MT class.

D. Summary of Assessment Results

MT PLO 1: One hundred percent of the senior graduating class of 2016 completed the STCW assessments. The MT department is meeting the established benchmark for this PLO. There are no recommendations for program improvement.
The STCW assessment process has changed dramatically over the past two years. The STCW coordinator has worked with the MT department head and faculty to modify the assessment process and the documentation procedures. Continuous improvement in STCW assessment is outside the scope of this PLO assessment. USCG approval, measured by the continued recognition of the MT faculty as STCW assessors, is adequate verification of successful STCW assessment.

MT PLO 5: Eighty-one percent of the senior graduating class of 2016 achieved an 80 percent or better on the USCG Mock Terrestrial Exam. The MT department is meeting the established benchmark for this PLO. There are no recommendations for program improvement. Recommendations for the future assessment of this PLO are to increase the benchmark to 90 percent of students achieving 80 percent or better, and to reassess which USCG Mock Exam best represents the PLO. The terrestrial exam was not found to be an inadequate measure of quantitative reasoning, but oceans should also be considered, or used as secondary data to support the primary assessment.

The assessment plans for the coming year are to collect and analyze data for PLO's 2, 3, and 7. All three PLO's will be assessed in DL 420, Watchstanding Simulation, in the Fall 2018 semester.
The assessment method is a rubric, completed for each student in 60 percent of the sections. All MT seniors are required to take this course, so the sample size will represent 60 percent of the senior class.
During Spring 2018, the rubrics will be selected for each of the three PLO's to be assessed. The rubric selection process will include the DL 420 course custodian and instructors. A benchmark for the assessment will also be established.

Over the next year, the assessment plan for PLO's 4 and 6 will be established, including discussions with the instructors of HUM 400, Ethics, and NAU 420, Maritime Casualty Seminar. PLO's 4 and 6 will be assessed in 2019.

3. STATISTICAL DATA

Statistical data is meant to enhance and support program development decisions. These statistics will be attached to the Annual Report of the Program Unit. This statistical document will contain the same data as required for the five-year review including student demographics of majors, faculty and academic allocation, and course data.

Program	2016
A. Students	
1. Undergraduate	316
2. Postbaccalaureate	13
B. Degrees Awarded	75
C. Faculty	
Tenured/Track Headcount	
1. Full-Time	10
2. Part-Time	0
3a. Total Tenure Track	10
3b. % Tenure Track	50
Lecturer Headcount	
4. Full-Time	4
5. Part-Time	6
6a. Total Non-Tenure Track	10
6b. % Non-Tenure Track	50
7. Grand Total All Faculty	20
Instructional FTE Faculty (FTEF)	
8. Tenured/Track FTEF	9.25
9. Lecturer FTEF	6.91
10. Total Instructional FTEF	16.16
Lecturer Teaching	
11a. FTES Taught by Tenure/Track	92.63
11b. % of FTES Taught by Tenure/Track	39.2
12a. FTES Taught by Lecturer	143.9
12b. % of FTES Taught by Lecturer	60.8
13. Total FTES taught	236.53
14. Total SCU taught	3548
D. Student Faculty Ratios	
1. Tenured/Track	10.0
2. Lecturer	20.8
3. SFR By Level (All Faculty)	14.6
4. Lower Division	21.9
5. Upper Division	10.1
E. Section Size	
1. Number of Sections Offered	125
2. Average Section Size	17.9
3. Average Section Size for LD	23.3
4. Average Section Size for UD	14.1
6. LD Section taught by Tenured/Track	13
7. UD Section taught by Tenured/Track	38
8. GD Section taught by Tenured/Track	0
9. LD Section taught by Lecturer	38
10. UD Section taught by Lecturer	36

MT PLO Curriculum Map

MT PLO 1: Discipline-Specific Knowledge: Graduates will demonstrate competence in the concepts and technologies of international marine transportation.

Correlates with ILO5: Discipline-Specific Knowledge: Students will demonstrate expertise in the concepts and technologies of a chosen field, particularly its relation to the maritime world.

Assessed in multiple courses through the STCW assessment process

MT PLO 2: Leadership and Teamwork: Graduates will demonstrate the ability to work effectively as a leader and member in professional teams.

Correlates with ILO7: Leadership and Teamwork: Students will work toward common goals and motivate and empower others to achieve them; foster collegiality, goodwill and community within a diverse group

Assessed in DL 420, Watchstanding Simulation

MT PLO 3: Communication: Graduates will demonstrate effective communication skills.

Correlates with ILO1: Communication: Students will coherently and persuasively share information.

Assessed in DL 420, Watchstanding Simulation

MT PLO 4: Ethical Awareness: Graduates will use ethical reasoning to make decisions related to the maritime industry.

Correlates with ILO8: Ethical Awareness: Students will use ethical reasoning in personal, professional, and social decision-making.

Assessed in Hum 400, Ethics

MT PLO 5: Quantitative Reasoning: Graduates will demonstrate the ability to analyze numerical data.

Correlates with ILO3: Quantitative Reasoning: Students will use numerical information to identify, analyze and solve problems

Assessed in NAU 410, License Seminar

MT PLO 6: Information Fluency: Graduates will define a specific need for information; then locate, evaluate, and apply the needed information.

Correlates with ILO6: Information Fluency: Students will define a specific need for information; then locate, evaluate, and apply the needed information efficiently and ethically.

Assessed in NAU 420, Maritime Casualty Seminar

MT PLO 7: Critical and Creative Thinking: Graduates will analyze problems in new and different ways.

Correlates with ILO2: Critical and Creative Thinking: Students will comprehend, analyze, and objectively evaluate information and ideas; approach issues in new and different ways, often through synthesizing or applying information.

Assessed in DL 420, Watchstanding Simulation