



ANNUAL PROGRAM REPORT

Academic Program	Mechanical Engineering
Reporting for Academic Year	2021-2022
Department Chair	Nader Bagheri

1. SELF-STUDY

A. Five-year Review Planning Goals

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

Since 2019, the Mechanical Engineering program has been primarily focused on implementing the Program Curriculum Changes approved in 2021. The revision included a restructuring that would potentially allow for future growth of its Energy Design and Mechanical Design Concentrations into new Majors. However, this implementation of new majors may not be completed in the next five years, the department shall take steps toward this goal.

B. Five-year Review Planning Goals Progress

The Mechanical Engineering program has seven student outcomes (SO) are to be assessed over a two-year period. Student Outcomes 1, 2, 3, and 6 (Cycle 1) were assessed in 2019 and the results were presented in the 2019 Annual Program Report. SO 4, and 7 (Cycle 2) were supposed to have been assessed in 2020, but the COVID-19 pandemic prevented the department from assessing these outcomes. Cycle 2 outcomes were assessed in 2020 and presented in the 2020 program report. Cycle 1 assessment results will be presented in this report for the 2021 cycle.

The transition to the new Mechanical Engineering curriculum, which began with the Enrollment of 2021, is well underway. The program is monitoring the progress of students from prior entering classes to ensure that they can complete the full requirements laid out in their curriculum sheet. This has been achieved through advising and course substitutions.

C. Program Changes and Needs

Program changes including courses added to the curriculum, courses removed from the curriculum, and courses with unit changes were reported in the 2020 program report. The new curriculum does bring the program closer to full compliance with Executive Order 1100. The program needs to evaluate

to the student outcomes by each instructor. Mapping of courses to student outcomes can be seen in the

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.

<i>Program</i>	Fall 2021
<i>A. Students</i>	
1. Undergraduate	
2. Postbaccalaureate	
<i>B. Degrees Awarded</i>	
<i>C. Faculty</i>	
Tenured/Track Headcount	
1. Full-Time	
2. PartTime	
3a. Total Tenure Track	
3b. % Tenure Track	
Lecturer Headcount	
4. Full-Time	
5. PartTime	
6a. Total NonTenure Track	
6b. % NonTenure Track	
7. Grand Total All Faculty	
Instructional FTE Faculty (FTEF)	
8. Tenured/Track FTEF	
9. Lecturer FTEF	
10. Total Instructional FTEF	
Lecturer Teaching	
11a. FTES Taught by Tenure/Track	
11b. % of FTES Taught by Tenure/Track	
12a. FTES Taught by Lecturer	
12b. % of FTES Taught by Lecturer	
13. Total FTES taught	
14. Total SCU taught	
<i>D. Student Faculty Ratios</i>	
1. Tenured/Track	
2. Lecturer	
3. SFR By Level (AllFaculty)	
4. Lower Division	
5. Upper Division	
<i>E. Section Size</i>	
1. Number of Sections (non-laboratory courses) Offered	
2. Number of Labs Offered (if any)	
3. Average Section Size	
4. Average Section Size for LD	
5. Average Section Size for UD	