



COMMITTEE ON ACADEMIC PLANNING AND REVIEW

16-17 CAPR 17
May 18, 2017

TO: The Academic Senate

FROM: The Committee on Academic Planning Review (CAPR)

SUBJECT: 16-17 CAPR 17: 2015-2016 Five-Year Program Review for Industrial Engineering

PURPOSE: For Action by the Senate

ACTION REQUESTED: Approval with Probation of the Five-Year Program Review of Industrial Engineering it is recommended the program continues without modifications. The date of the next Five-Year review will be due in year 2021.

BACKGROUND:

At its meeting on February 16, 2017, CAPR invited Dr. Saeid Motavalli, program chair, from the Industrial Engineering Department to discuss the [5 year review for 2015-2016](#). The accrediting body, Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), has extended accreditation to September 30, 2018.

There is one outstanding weakness that ABET would like to see addressed prior to the next review, and that is strengthening the compliance of the senior design criterion. The criterion states that there should be a design component (senior design project) which utilizes and incorporates knowledge learned throughout the program. ABET's review determined that the senior projects did not explore constraints to a high enough degree to meet the criterion.

OVERVIEW OF DOCUMENTS SUBMITTED TO CAPR:

The following documents were included in the report to CAPR:

- A self-study
- A five-year plan
- ABET report

CAPR ANALYSIS OF THE PROGRAM'S FIVE-YEAR REVIEW:

Program summary since last review

Major changes since the last review include the following:

- Room SC-S 247, Materials Testing Laboratory, is being remodeled into a flexible lab/lecture room which will be more intuitive for group work.

The following remains unchanged since the last review:

- No new faculty have been hired, nor have there been any approved searches.
- Student enrollment for the program has remained steady at around 140 undergraduates.
- The faculty continue to be active in research and pursuing funding.
- Due to A2E2 funds, computers in the Industrial Engineering Laboratories have continued to be refreshed and remain current.

CAPR RECOMMENDATION(S) FOR CONTINUATION OF THE PROGRAM:

CAPR recommends the continuation of the program with monitoring by CAPR for one year. The next annual review should address the status of addressing ABET's concerns and include submission of a substantive five-year plan. The documentation submitted to CAPR was lacking a substantive five-year plan. The only comments made to upcoming changes were the conversion to semesters, addressing the ABET observation of faculty, and the remodeling of one lab. Equally there was no discussion of program changes since the previous review.

DATE OF THE PROGRAM'S NEXT FIVE-YEAR REVIEW:

The next five-year review will be due in 2021.