



## Program Assessment Report (PAR)

### Biomedical Engineering (BME) Masters Degree

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ACADEMIC YEAR COVERED BY THIS REPORT: 2020-2021

#### I. PROGRAM LEARNING OUTCOMES

Program Learning Outcomes Obtain depth in one area of specialization and breadth in complimentary areas. Acquire scientific knowledge and research skills to solve problems in their chosen area. Prepare for an advanced professional career or further graduate studies.

#### II. PROCEDURES USED FOR ASSESSMENT

##### A. Direct Assessment

Methods of assessment Outcome 1 Program of Study components All MSBME students' programs of study include a chosen focus area and meet the following criteria to accomplish the standards of depth and breadth expected of master's degree students with uniformity while maintaining flexible program options • 30 credits total • 18 credits of degree-specific coursework • 12 credits of 7000-level coursework in the BIE Department • 6 credits of applied math/computations coursework A program of study is submitted by every graduate student going into their second semester. In this case, we are assessing whether the program of study meets the following administrative requirements. A program of study is not approved if it does not meet the requirements, so it is accurate to say that, by this measure, the outcome is met with 100% compliance. Outcome 2 Final GPA distribution All graduate students are required to complete their programs with a 3.0 GPA or higher. Mastery of In-Depth Content The Graduate School requires that no more than 6 credits of graduate coursework completed with a grade of "C" may count toward a student's master's degree program. Students may not graduate unless they meet these two criteria, so it is accurate to say that, by these measures, this outcome is met with 100% compliance. Outcome 3 Evaluation of learning outcome 3 is done by indirect assessment of secondary data and student exit surveys. Final GPA distribution All graduate students are required to complete their programs with a 3.0 GPA or higher. Mastery of In-Depth Content The Graduate School requires that no more than 6 credits of graduate coursework

completed with a grade of “C” may count toward a student’s master’s degree program. Students may not graduate unless they meet these two criteria, so it is accurate to say that, by these measures, this outcome is met with 100% compliance. MSBME graduate placement data is indicated on exit surveys submitted by students on a voluntary basis. For the years 2013-14 to 2017-18, roughly half of students planned to continue their education after receiving their master's degree, and roughly half of students were employed in their field. It is not known to what extent these two statistics overlap.

## **B. Scoring of Student Work**

[Scoring]

## **C. Indirect Assessment**

Exit surveys are used to assess student perceptions of the program and their learning.

## **III. ASSESSMENT RESULTS/INFORMATION:**

[AssessmentResult]

[Summary]

[Analysis]

## **IV. ACTIONS TO IMPROVE STUDENT LEARNING**

Primary themes from exit interviews are discussed annually at faculty meetings for purposes of program improvement. Discussions will continue with the Advisory Board or result in course content or course offering changes to accommodate the needs of the program constituents, as necessary.

## **V. SUPPORTING DOCUMENTS**

Additional documentation, when provided, is stored in the internal Academic Program Assessment of Student Learning SharePoint site.