Assessment Report Qualitative Feedback Checklist

Please read this form in its entirety; it will answer many of your questions.

Program: BME Date: 1/17/2024

Addressing Feedback

How to decode feedback provided:

- Red Text: needs to be addressed on your end; items are numbered or starred
- Orange Highlight: will be addressed by our team
- Blue Text: for future reference
- Purple Text: best practice considerations (optional)

Step 1: Outcomes and Methods

This is feedback that needs to be addressed in the first two columns (Outcomes and Methods) of the report. Once submitted via the chart below, the IE team will make these changes in the system.

Instructions: If **red numbered text** feedback was provided for the Outcomes and Methods columns, please **type the corrective actions/changes below in its corresponding number**.

Assessment Report – Outcomes and Methods		
Comment Number	Changes for Outcomes and Methods (Type changes you'd like to make below)	Need Help (X)
1.	faculty meeting on 1/17/24 to implement an experimental course titled Intro to Design in Fall 2024 and potentially add it to the core courses depending on how s	
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Continue to next page for Step 2: Results, Use of Results & Follow-ups.

Please submit this completed form (**one per report**) through our portal.

FIU | Institutional Effectiveness

Step 2: Results, Use of Results for Improvement & Follow-Ups

This is feedback that needs to be addressed in the second two columns (Results and Use of Results) of the report. Once submitted via TracDat, the IE team will review these changes in the system.

Instructions: If **starred red text** feedback was provided for these areas, **please log-in to TracDat to make the necessary corrections to each starred item.**

If you need assistance with TracDat, please visit our website for video tutorials and guides. If you need further assistance, please request an appointment.

Have you addressed all starred feedback in the Results, Use of Results and Follow-up/Evidence sections of the report?

Yes ☑
- Thank you for completing all revisions, the IE team will review your changes.

No ☐
- Contact reviewer for assistance

Does the assessment report state "data not collected" or "data not available"?
Note: "Data not available" has been entered by IE staff when there were blanks under the RESULTS column.

☐ Yes, and I do **not** have data to report or my data were not collected.

☐ Yes, and I do have data to enter. (**If so, then enter data in related results.**)

☑ No, I do not have "data not collected" or "data not available" in the results column.

Step 3: Future Assessment Plans

Assessment Plan for Next Cycle

Do you have new or modified outcomes and/or methods for the next academic year? (Please check below). This is **not** related to the feedback provided on your redlined report.

Yes ☐
- Find appropriate template on our website and complete new plan
- Use this form to submit new plan

No ☑
- No further action required

Please submit this completed form (one per report) through our portal.

Assessment Report

Program Outcomes

Program - CEC Biomedical Engineering (BS)

Program Information

Mission

The mission of the Biomedical Engineering Department is to bridge engineering, science and medicine, to educate and train the next generation of diverse biomedical engineers, to promote a culture of inclusion amongst all biomedical engineers, to conduct research leading to significant discoveries in medical sciences, to develop innovative medical technology, to translate scientific discovery and medical technology to industry or clinical practice and engage with the regional to international community for knowledge dissemination.

College / School

College of Engineering and Computing

Department

Biomedical Engineering

Program Type

Degree - Undergraduate

Modality

Face-To-Face

CIP Code

14.0501

Exit Survey - Preparedness

Graduates will feel adequately prepared for employment and/or graduate studies.
Strategic Priorities: Learner Success
Goal: Graduation, Post-Graduation Success
PO Start Date: 06/01/2015
PO End Date: 05/31/2030
PO Status: Active

Assessment Method	Results & Analysis
Assessment Method Name: Survey Questionnaire **Assessment Method:** Using the AIM dashboards, the following questions will be used to measure student satisfaction with employment and/or graduate school preparedness Students take the exit survey when applying for graduation and it consists of a 5-point Likert scale. The Likert scale consists of Strongly Agree, Agree, Neutral, Disagree, Strongly Disagree. For each of the following applicable items, please indicate the extent of your agreement with the statement as it describes your experience at the University. Within my undergraduate degree program or because of my experiences at FIU, I: - Felt adequately prepared for graduate study in my major field - Was prepared to assume the responsibilities of my chosen profession **Sampling:** All graduating students in the BME:BS program. **Minimum Criteria for Success:** Students will report agree or strongly agree for each question. **Method Start Date:** 06/01/2015 **Method End Date:** 05/31/2030 **Method Status:** Active	**Results Date**: 10/05/2023 **Reporting Period**: 2022 - 2023 **Criterion Status**: D. 70% to 79% Met **Results**: Response breakdown: N=71 - Felt adequately prepared for graduate study in my major field: 70.42 Strongly Agree: 43.66% (31) Agree: 26.76% (19) Neutral: 18.31% (13) Disagree: 5.63% (4) Strongly Disagree: 4.23% (3) - Was prepared to assume the responsibilities of my chosen profession: 73.25 Strongly Agree: 40.86% (29) Agree: 32.39% (23) Neutral: 18.31% (13) Disagree: 2.82% (2) Strongly Disagree: 4.23% (3) **Analysis**: Over 70% of students felt adequately prepared at the end of the program to enter the biomedical engineering field or pursue graduate study in their chosen field. These results were similar to the results for this outcome reported the previous year. **USE OF RESULTS** **Use of Results Date**: 10/10/2023

*Please add an analysis. Include a description of results, a comparison to data from the previous year. **The number of students responding to the survey decreased compared to the previous AY. Please discuss potential reasons for this.**

Assessment Method	Results & Analysis
1.The faculty have discussed incorporating this curriculum change but is it a plan that the program is implementing? Please clarify	**Use of Results for Improvement**: The faculty in the department have discussed incorporating more intro to design as well as intro to computing early in the program to give students early experience in these topics upon entry to the program. It will serve to give the students a feel of what engineers do and the tools that they use as well as introducing them to BME faculty early in their college experience. Previously, design was only fully emphasized during the Senior Design Experience courses offered during the Senior year. **Program Outcomes Improvement Categories**: Curriculum **FOLLOW-UP**
	Results Date: 06/22/2022 **Reporting Period**: 2021 - 2022 **Criterion Status**: D. 70% to 79% Met **Results**: Response breakdown: N=81 - Felt adequately prepared for graduate study in my major field: Strongly Agree: 44.30% (35) Agree: 31.65% (25) Neutral: 13.92% (11) Disagree: 3.80% (3) Strongly Disagree: 5.06% (4) - Was prepared to assume the responsibilities of my chosen profession: Strongly Agree: 50.63% (40) Agree: 25.32% (20) Neutral: 13.92% (11) Disagree: 2.53% (2) Strongly Disagree: 5.06% (4) **Analysis**: **USE OF RESULTS** **Use of Results Date**: 06/22/2022 **Use of Results for Improvement**: This is the first year of a two-year cycle of data collection. No Use of Results required. **Program Outcomes Improvement Categories**: Not Applicable **FOLLOW-UP**

FTIC 4-year Graduation Rate

FTIC students will graduate within 4 years.
Strategic Priorities: Learner Success
Goal: Graduation
PO Start Date: 06/01/2015
PO End Date: 05/31/2030
PO Status: Active

Assessment Method	Results & Analysis
Assessment Instrument: Database **Assessment Method Name:** Graduation Tracking **Assessment Method:** Using the AIM dashboards, faculty will review data pertaining to graduation of FTIC students in the program within four years. **Sampling:** All graduating students in the BME:BS program. **Minimum Criteria for Success:** FTIC students 4-year graduation rate will increase from the previous year. **Method Start Date:** 06/01/2015 **Method End Date:** 05/31/2030 **Method Status:** Active	**Results Date**: 10/05/2023 **Reporting Period**: 2022 - 2023 **Criterion Status**: H. 30% to 39% Met 0% Met **Results**: The 4-year FTIC graduation rate was 39% (N=51). The four-year graduation rate decreased by 17.54% from the previous year. **Analysis**: The FITC graduation rate decreased by over 17% from the previous year. The BME advisor was asked what would help to increase the graduation rate of the various cohorts in the program and the response came back that offering BME lab courses as well as Senior Design courses in the summer would help a number of students graduate. **USE OF RESULTS** **Use of Results Date**: 10/10/2023 **Use of Results for Improvement**: BME Lab 1 and the Intro to Senior Design courses were offered in Summer 2023 and plans are in process to try to acquire adequate funding for adding more courses in Summer 2024, but because of University-wide decreases in funding, it will be a challenge. Courses that will help to improve graduation include BME labs 1 and 2 as well as Senior Design 1 and 2 courses. Since the BME program already offers BME3403, BME 3404, BME 4011 and Biomaterials in the summer, it will be a challenge to add more courses in the current environment but the chair is exploring alternate funding sources. Category: Curriculum **FOLLOW-UP**
	Results Date: 10/05/2022 **Reporting Period**: 2021 - 2022 **Criterion Status**: A. 100% Met **Results**: The 4-year FTIC graduation rate was 57% (N=37). This is an increase by 8% from the previous year for the program. **USE OF RESULTS** **Use of Results for Improvement**: This is the first year of a two-year cycle of data collection. No Use of Results is required. **FOLLOW-UP**

AA Transfer 4-Year Graduation Rate

AA transfer students will graduate within 4 years.
Strategic Priorities: Learner Success
Goal: Graduation
PO Start Date: 06/01/2015
PO End Date: 05/31/2030
PO Status: Active

Assessment Method	Results & Analysis
Assessment Instrument: Database **Assessment Method Name:** Transfer Graduation Tracking **Assessment Method:** Using the AIM dashboards, faculty will review data pertaining to graduation of AA transfer students in the program within four years. **Sampling:** All graduating students in the BME:BS program. **Minimum Criteria for Success:** AA transfer students 4-year graduation rate will increase from the previous year. **Method Start Date:** 06/01/2015 **Method End Date:** 05/31/2030 **Method Status:** Active	**Results Date**: 10/05/2023 **Reporting Period**: 2022 - 2023 **Criterion Status**: A. 100% Met **Results**: The AA transfer 4-year graduation rate was 90% (N=10). The four-year graduation rate increased by 18.57% from the previous year for AA Transfer Students. **Analysis**: The addition of Senior Design 2 and BME lab 1 courses in summer as well as the tutoring program helped to increase the four-year graduation rate from the previous year. **USE OF RESULTS** **Use of Results Date**: 10/10/2023 **Use of Results for Improvement**: The department will continue to utilize the tutoring program and offer as many courses in the summer that will help students graduate in a timely manner bases on advisor recommendations. Due to University-wide decrease in funding, adequate funding will need to be found to implement as many of the identified courses as possible. **FOLLOW-UP** Category: Enrollment, Student resources, Budgetary.
	Results Date: 10/05/2022 **Reporting Period**: 2021 - 2022 **Criterion Status**: L. 0% Met **Results**: The AA transfer 4-year graduation rate was 71% (N=14). This is a decrease by 5% from the previous year. **USE OF RESULTS** **Use of Results Date**: 10/05/2022 **Use of Results for Improvement**: This is the first year of a two-year cycle of data collection. No Use of Results is required. **FOLLOW-UP**

*Use of Results: Please clarify, how is the department utilizing the tutoring program? how are you notifying students about this? and how will this action improve student graduation?
Please also clarify, which course are going to be offered more for students and how this should improve graduation.