

Outcome j. Graduates will demonstrate a knowledge of contemporary issues.

Tools used:

Course Specific Rubrics

Data Collection:

Rubrics are completed by course instructors through evaluation of specific coursework, including in-class assignments, homework assignments, exams, and projects

Frequency of Data Collection:

The data are collected every time courses are taught.

Data Analysis:

The data obtained are analyzed every year by the instructor and by the program faculty members.

Closing the Loop:

This outcome is subject to review every year based on performance criteria and metrics and specific action items are developed, if necessary, to revise the content or instruction of the courses. The analyzed data are presented separately to the following groups in meetings.

- a) Feedback to students on all assignments
- b) Feedback to and discussion with faculty on rubric results
- c) Integration of results from faculty discussion on rubric results

Performance criteria and metrics:

Rubrics for each course are given on the BMEG assessment page

(<https://cbe.statler.wvu.edu/home/biomedeng/bmeg-assessment>) or can be reached by following the link on the course number in the table below.

Students should reach a level of proficiency defined as a goal metric value of 3.0 based on the rubric scale of

- (1) not proficient,
- (2) progressing to proficiency,
- (3) proficient, and
- (4) superior proficiency.

Course Assessed	#	Performance Criterion
BMEG 203	1	Explain and discuss what biomedical engineers do in their professional activities
	2	Explain the need and the process of biomedical engineering device regulation
BMEG 311	1	Identify and elaborate on current biomedical engineering topics
BMEG 421	1	Identify current bottle neck limitations in the area of biomedical engineering and highlight the scientific breakthrough that will be needed in order to advance this profession
BMEG 455/456	1	Improve human healthcare through possible clinical applications