

Outcome g. Graduates will demonstrate an ability to communicate effectively.

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 Criteria Number	Aspect used on rubric
BMEG 201	Performance Criterion 1	Create a clear and concise presentation on a biomedical engineering topic, and present to an audience with limited knowledge about the area
	Performance Criterion 2	Demonstrate proficient oral and written communications skills through presentations and written documents related to contemporary biomedical engineering advances.
BMEG 311	Performance Criterion 1	Effectively communicate their design of a biomedical device
	Performance Criterion 2	Prepare and deliver technical written reports
BMEG 321	Performance Criterion 1	Improve their oral and written communication skills
BMEG 421	Performance Criterion 1	Create a clear and concise presentation on a biomedical engineering topic, and present to an audience with limited knowledge about the area
	Performance Criterion 2	Demonstrate proficient oral and written communications skills through presentations and written documents
BMEG 455/456	Performance Criterion 1	Present technical material in a written or oral format as well as develop the ability to communicate effectively, in writing, conversation and graphic