

Graduate Program in Biomedical Engineering Comprehensive Exam Assessment

Purpose: The purpose of the exam is to assess a student's ability to critically engage a research topic in a specific time frame and to assess both the breadth and depth of the student's knowledge in biomedical engineering.

Time Frame: The typical time frame for the comprehensive exam is as follows:

1. A paper and/or a set of questions is identified by the exam committee and presented to student.
2. The student has two weeks to prepare a written response which is then submitted to the exam committee.
3. Upon submission of the response, the student has one week to prepare an oral presentation and prepare for an oral defense of their work.

Assessment: The student will be assessed using three levels of performance on the 4 criteria listed below.

Performance Levels: Please describe the student's performance in the areas below using the following scale:

Acceptable: Student displayed an acceptable level of competency in this area.

Weakness: The student was weak in this area but acceptable at a minimal level. It is recommended that the student enhance their understanding through reading scientific literature, textbooks, and/or taking a course.

Deficiency: The student was deficient in this area, below the minimal acceptable level. The student is required to gain a deeper understanding through course work or some other means determined by the committee.

Date: _____

Student Name: _____

Exam Committee Member: _____

Criteria 1: The student is able to critically review technical literature related to the given topic.

Assessment Score: _____

Comments:

Criteria 2: The student has demonstrated an understanding of the biomechanical engineering problem.

Assessment Score: _____

Comments:

Criteria 3: The student has demonstrated an ability to understand and critique the experimental design, experimental method/s, biomechanical assessment and analysis techniques used in the research article.

Assessment Score: _____

Comments:

Criteria 4: The student has demonstrated an ability to extend the material in the paper and describe the limitations of the current methods and potential future studies or developments.

Assessment Score: _____

Comments: