

## **PhD Qualifying Examination and Mentoring-Committee Rubric – for all Committee Members**

The chair will collect completed rubrics from all committee members in order to submit combined feedback in the final Qualtrics rubric.  
The final Qualtrics rubric will be filled out by the chair at the conclusion of Qualifying Exam Discussion.

Student Name:

Committee Member:

Committee Chair:

**Common Breadth of Biomedical Engineering Knowledge (review student self-evaluation on Cover Sheet):**

	Appropriate	Needs Discussion	Comments (if needed)
Cell biology, Biochemistry, Anatomy, and/or Physiology			
Programming			
Signal Processing			
Numerical Computation			
Experimental Design and Statistics			
Data Science (including aspects of Open-Science)			
Engineering Design			
Biomedical Engineering Ethics and Professionalism			

**QUAL ONLY - Expectations for Qualifying Exam:**

	Exceeds Expectations	Meets Expectations	Improvements Needed	Fails to Meet Minimal Expectations
<b>WRITTEN EXAM</b>				
Critical analysis and synthesis of literature				
Gap or needs identification				
Development of a significant and specific research question with a testable hypothesis to address the gap/need				
Appropriate and realistic experimental design to test the hypothesis (in the form of a <i>Research Strategy</i> - not to level of thesis Specific Aims)				
Consideration of caveats, potential problems, and alternative approaches				
Ethical Considerations in the Conduct of Research				
Appropriate Timeline proposed				
Written Technical and Scientific Communication				
<b>ORAL EXAM</b>				
Oral Technical and Scientific Communication				
<b>RESEARCH PROGRESS</b>				
Technical depth in fundamental principles in student's research area				
Critical analysis and interpretation of data				
Appropriate level of independence				

Do you have concerns about plagiarism in the Written Document?

*No concerns*;  *Minor concerns (needs more guidance)*;  *Multiple concerns (meeting needed)*

**CHAIR ONLY (Chair will need to report this on the student's assessment):**

*Date of Screening:*

*Similarity Index (in %):*

## ORAL EXAM DISCUSSION

Has IDP been provided and discussed with committee (Y/N):

*Comments/Suggestions (if any):*

Career Path Options discussed:      Academic;      Industry;      Clinical;      Global Health;      Other

Was POS Discussed (Y/N):

*Comments/Suggestions (e.g., additional useful courses):*

Strengths of Student:

Areas for Improvement/Growth:

*Technical:*

*Professional Development:*

Any Additional Suggestions for Training Plan/Networking:

\*\*\*\*\*QUAL ONLY\*\*\*\*\*

Qualifying Exam Outcome Recommendation:

- Pass
- Provisional Pass (issues in no more than one area):
  - Written document revision required (within 3 weeks)
  - Oral Exam needs to be repeated (within 2 months, based on same document)
- No Pass (both components must be repeated by the next spring or fall semester)
- Fail (did not pass 2<sup>nd</sup> attempt)

Next Committee Meeting Recommendation

- Within 12 months (required for all students)
- Within 6 months (if needed/helpful)
- Other

Confidential Comments to the Chair regarding the Qualifying Exam:

Committee Member Signature:

Date: