

Weldon School of Biomedical Engineering***PhD Qualifying Examination and Mentoring-Committee Rubric – for all Committee Members***

[The first part of this form must be submitted (based on the written documents) to the Chair at least 48 hours prior to the scheduled exam/mentoring meeting. The remainder of the form will be completed during the meeting]

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 | | | |
| Diversity, Equity, and Inclusion considerations for Biomedical Engineering | | | |

Expectations for Qualifying Exam:

| | Exceeds Expectations | Meets Expectations | Improvements Needed | Fails to Meet Minimal Expectations |
|---|----------------------|--------------------|---------------------|------------------------------------|
| <u>PROPOSAL</u> | | | | |
| 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 | | | | |
| Oral Technical and Scientific Communication (<i>complete at ORAL EXAM</i>) | | | | |
| <u>RESEARCH PROGRESS</u> | | | | |
| 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 based on the Ithenticate screening report sent to all committee members by the Chair?

Date of Screening:

Similarity Index (in %):

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

Additional Comments:

Confidential Comments to the Chair (e.g., list any specific issues you want to pursue in Oral Exam):

Committee Member Signature:

Date:

***** TO BE COMPLETED AT ORAL EXAM *****

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

Comments/Suggestions (if any):

Career Path Options discussed: Academic; Industry; Clinical; Global Health; Other *https://engineering.purdue.edu/BME/Academics/Graduate/Tracks/Tracks%20Header*

Was POS Discussed (Y/N, comments if any):

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

Strengths of Student:

Areas for Improvement/Growth:

Technical:

Professional Development:

Any Additional Suggestions for Training Plan/Networking:

Overall Outcome:

- Pass
- Provisional Pass (issues in not 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 next semester (excluding summer))
- Fail (did not pass 2nd attempt)

Next Committee Meeting

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

***** FINAL RUBRIC WILL BE FILLED OUT BY WHOLE COMMITTEE ([QUALTRICS](#)) IN LAST 10 MINS of MEETING*****

https://purdue.ca1.qualtrics.com/jfe/form/SV_1RnO1NihkctcSyV0