BME PhD Outcomes Assessment Rubric

To be completed by committee chair in consultation with exam committee.

Student: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Degree program/concentration:\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Outcome**  | **Unacceptable** **(1)** | **Marginal** **(2)** | **Acceptable** **(3)** | **Exceptional** **(4)** | Rating |
| **1) Knowledge of BME fundamentals appropriate for discipline and specialization** | No evidence of PhD- level fundamental knowledge in BME. | Rudimentary knowledge of BME exhibited in written document and oral presentation. | Knowledge of BME fundamentals evident in written and oral presentation. | Demonstrates mastery of appropriate fundamentals of BME. |  |
| **2) Depth of knowledge in specialization** | Only rudimentary knowledge in specialization. | Some knowledge of specialization demonstrated. | Demonstrates appropriate level of knowledge in specialization. | Demonstrates knowledge of specialization comparable to experienced practitioner. |  |
| **3) Ability to conduct original and independent research** | No evidence of planning and execution of research program. | Some useful research results with some evidence of original work. | Carried out good research program, achieved useful and novel results. | Excellent planning and execution of research program. Excellent results. |  |
| **4) Ability to perform critical review of literature in BME and area of specialization** | Rudimentary literature review. | Some review of the literature, but little critical evaluation. | Comprehensive review of literature with evidence of critical thinking about further needs for research in this area. | Extensive review of literature with critical evaluation comparable to a review article in literature. |  |
| **5) Able to communicate effectively** | Dissertation poorly written. Oral exam not well planned or presented. Unable to answer questions. | Dissertation mostly clearly written. Presented main points clearly. Able to answer some but not all of the questions posed by committee. | Well written and well organized dissertation. Well organized and clear presentation. Good ability to answer questions.  | Excellent job of writing and organizing dissertation. Well organized talk. Able to respond to questions and facilitate further discussion of results. |  |
| Overall**Assessment** | **Unacceptable****(1)** | **Marginal****(2)** | **Acceptable****(3)** | **Exceptional****(4)** |  |

Comments (use back if necessary):

What curricular or process changes can you suggest to improve student performance in these areas (use back if necessary)?

Form to be sent to department/program grad committee and SoE Associate Dean for Academics.