B Exam—M.S.
Field of Materials Science and Engineering Assessment of student/program performance

Student name: ___________________________ Date: _______________________________

PART I. To be completed by student and attached to B exam Scheduling form. After B Exam is completed this is to be attached to the Results of Examination form.

Goal: Demonstrate broad knowledge in all core topics of Materials Science and Engineering, advanced knowledge in selected core topics, and interdisciplinary training. Directions: List 6000-level core courses and grades:

<table>
<thead>
<tr>
<th>MSE 600-level course</th>
<th>semester/year</th>
<th>grade</th>
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Goal: Demonstrate breadth of interdisciplinary training. Directions: Courses/other assignments undertaken to satisfy minor requirements (set by Special Committee Members).

<table>
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<tr>
<th>Minor requirements</th>
<th>semester/year</th>
<th>grade/comment</th>
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Goal: Demonstrate the ability to acquire skills to perform independent advanced research; make an original and substantial contribution to the discipline, demonstrate a commitment to advancing scholarship. Directions: List publications and conference presentations

<table>
<thead>
<tr>
<th>Publications and Conference presentations (include author list, title, journal, volume, pages, venue; add pages as necessary)</th>
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Goal: Demonstrate professional skills, including understanding the importance of maintain ethical standards

“Responsible conduct of Research” online training http://www.oria.cornell.edu/rcr/ When accomplished:

form: 2013/6/15 –RBvD–rev4

signature_____________________________
B Exam—M.S.
Field of Materials Science and Engineering Assessment of student/program performance

Student name: ___________________________ Date: ______________________________

PART I, continued. Must be completed by student. Attach to Results of Examination form.

Goal: Make an original and substantial contribution to the discipline; make an original and substantial contribution to the discipline.
Assessment: Please indicate your current post-graduation plans (postdoc? company? other? undecided?)

Goal: Listen, give, and receive feedback effectively.
Assessment: Please use this opportunity to provide your own feedback/assessment of your experience of the Ph.D. program (e.g., coursework, mentoring, research training, social aspects, support from your advisor, Special Committee, research group, department, and the University, etc.).
Note that these comments will not be anonymous. The Graduate School will solicit anonymous comments through a voluntary exit survey.
Use as much space as required, though brevity is appreciated!
B Exam—M.S.
Field of Materials Science and Engineering Assessment of student/program performance

Student name: ___________________________ Date: ________________________________

PART II. To be completed by Special Committee Members. Attach to B-Exam Results of Examination form.

- Please use a 4 point grading scheme: 1—unacceptable, 2—needs work, 3—satisfactory, and 4—excellent.
- If the consensus of the Special Committee is a grade of 1, then it is incumbent on the Special Committee to take some action to remedy the situation. If helpful, the situation and/or remedy might be communicated to the Director of Graduate Studies.

Goal: Demonstrate advanced research skills:

1 2 3 4 Identify and seek out existing knowledge and resources.
1 2 3 4 Integrate a variety of existing knowledge and resources to develop a research plan.
1 2 3 4 Demonstrate the ability to master and/or innovate research methodologies and techniques.
1 2 3 4 (Minor Member) Satisfy requirements for minor concentrations

Goal: Make an original and substantial contribution to the discipline of MS&E:

1 2 3 4 Demonstrate creative and independent thinking.
1 2 3 4 Identify new research opportunities in the field of MS&E.

Goal: Demonstrate a commitment to advancing scholarship:

1 2 3 4 Maintain familiarity with advances in the field
1 2 3 4 Participation in professional societies and other modes of communication.
1 2 3 4 Demonstrate a commitment to learning, collaborative inquiry, and mentoring

Goal: Demonstrate professional skills:

1 2 3 4 (Research Supervisor) Participate effectively in Group Meetings
1 2 3 4 Develop leadership qualities
1 2 3 4 Display high ethical standards and expect high ethical standards of others
1 2 3 4 Listen, give and receive feedback effectively
1 2 3 4 Make timely progress through the program
1 2 3 4 Master written communication skills: M.S. thesis
1 2 3 4 Master written communication skills: publications
1 2 3 4 Master oral communication skills: conference presentations
1 2 3 4 Master oral communication skills: Oral B Exam presentation
1 2 3 4 Master oral communication skills: Oral B Exam Response to questions

Comments: What advice should be communicated to the student to facilitate future academic and career success?