**UT Department of Materials Science and Engineering (MSE)**

***MS Non-Thesis* Learning Outcome Evaluation Form**

*The student’s committee is to agree upon and complete this form at the time of the Final MS Non-Thesis Oral Presentation (i.e., the MSE 580 Critical Review presentation) and turn it into the MSE Director of Graduate Studies.*

***General information:***

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ UTK ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date of Examination/Defense: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Provide an assessment of the student with respect to the following learning outcomes, based on the Final MS Non-Thesis Oral Presentation:***

|  |  |
| --- | --- |
|  | **Circle one for each area (1 = low, 2= medium, 3 = high)** |
| **Outcome / Assessment** | (1) Does Not Meet Expectations | (2) Meets Expectations | (3) Exceeds Expectations |
| **(1) Clearly communicate scholarly research and results through an oral presentation**  | **Serious problems** exist, including any or all of the following: (1) delivers an unsatisfactory presentation on the topic; (2) fails to provide adequate coverage of the topic; and (3) if asked, provides **insufficient insight** regarding the subject matter. | Demonstrates **satisfactory** communication skills, including: (1) delivers a satisfactory presentation on the topic; (2) provides adequate coverage of the topic; and (3) if asked, provides **sufficient insight** regarding the subject matter. | Demonstrates **exceptional** communication skills, including: (1) delivers an excellent presentation on the topic; (2) provides good coverage of the topic; and (3) if asked, provides **comprehensive insight** regarding the subject matter. |
| **Outcome / Assessment** | (1) Does Not Meet Expectations | (2) Meets Expectations | (3) Exceeds Expectations |
| **(2) Effectively analyze the literature to identify and evaluate important and related scholarly activities** | **Serious problems** exist, including the following: (1) fails to cite important literature and prior research in the topical area; and (2) if asked, demonstrates **little knowledge** of scholarly activities related to the subject matter. | Performs an **adequate** literature survey including: (1) cites some of the most important prior research regarding the topical area; and (2) if asked, demonstrates **sufficient knowledge** of scholarly activities related to the subject matter. | Performs a **comprehensive** literature survey including: (1) cites all of the most important prior research regarding the topical area; and (2) if asked, demonstrates **exceptional knowledge** of scholarly activities related to the subject matter. |
| **Outcome / Assessment** | (1) Does Not Meet Expectations | (2) Meets Expectations | (3) Exceeds Expectations |
| **(3) Demonstrate critical thinking and apply modern experimental tools and theory to solve engineering or scientific problems** | **Serious problems** exist, including the following: (1) demonstrates little knowledge of the inner workings of the experimental engineering tools employed in the topical area; and (2) demonstrates **little understanding** of the role of theory and theoretical concepts in the topical area. | Demonstrates **adequate** critical thinking, including: (1) an understanding of the basic inner workings of experimental engineering tools employed in the topical area; and (2) **sufficient insight** into the role of theory and theoretical concepts in the topical area. | Demonstrates **excellent** critical thinking, including: (1) a mastery of the basic inner workings of experimental engineering tools employed in the topical area; and (2) **impressive understanding** regarding the role of theory and theoretical concepts in the topical area. |

***Approval:***

Major Professor Signature

Minor Professor (if applicable) Signature

Committee Member Signature

Committee Member Signature