

Evaluation Rubric: PhD Dissertation Defense Examination

Date _____

Candidate Name Last (Print) _____

First (Print) _____

Academic Plan number _____

Title of Dissertation _____

| Evaluation | Does not meet Expectations (1) | Meets Expectations (2) | Exceeds Expectations (3) |
|---|--------------------------------------|------------------------------|--------------------------------|
| Problem Definition: Research problem stated clearly, provides motivation for work* | | | |
| Literature and Previous Work: Is aware of and makes use of relevant literature and previous work to frame the problem and identify uniqueness of the research problem* | | | |
| Impact of Proposed Research: Demonstrates the potential value of solution to the research problem in advancing knowledge within the area of study* | | | |
| Solution Approach: Applies appropriate state-of-the-field research methods/tools to solve the defined problem. Applies relevant criteria to validate the research methodology. | | | |
| Results: Results are correctly analyzed and valid conclusions drawn. | | | |
| Quality of Written Communication: Communicates research proposal and results clearly and effectively in the written dissertation | | | |
| Quality of Oral Communication: Orally communicates complex methods and results clearly and effectively. Able to answer questions in area of expertise and field. | | | |
| Critical Thinking: Demonstrates capability for independent research in area of study, significant expertise in the area and ability to make original contributions in field. | | | |
| Publications: Journal publications have or are anticipated from this research. | | | |
| Overall Assessment | | | |

*May be evaluated in proposal as well as dissertation and defense.

Name of Committee Member (Print) _____

Name of Committee Member (Signature) _____

Ph.D. Outcomes: Upon successful completion of the doctoral program in engineering, a student will be able to:

- 1) Demonstrate advanced proficiency in the chosen engineering discipline.
- 2) Independently formulate, implement and develop an engineering research project
- 3) Apply technical expertise and critical thinking to yield original research results
- 4) Effectively communicate complex technical ideas in both written and oral form
- 5) Disseminate research results that meet the standards for scholarship in the discipline