

Doctor of Engineering Program

Assessment of Student Academic Achievement Objectives – DISSERTATION

This evaluation is to be completed by each member of the student’s doctoral dissertation committee, upon completion of the **dissertation defense**. Return copies of this form to the department secretary or the Doctoral Program Director.

Please circle the appropriate box in each row.

The objectives are to develop in the student:	Level of Achievement		
Objectives/Criteria for Evaluation	Exemplary	Satisfactory	Unsatisfactory
1. A deeper, more general, and more fundamental understanding of the principles underlying a particular field of study, as well as those underlying related fields.			
a. Depth of knowledge	Student shows excellent understanding of fundamental principles directly related to the research.	Student shows good understanding of fundamental principles directly related to the research.	Student shows weak understanding of fundamental principles directly related to the research.
b. Breadth of knowledge	Student shows good understanding of related principles.	Student shows adequate understanding of related subjects.	Student shows weak understanding of related subjects.
2. A familiarity with advanced methods of analysis and synthesis that are more powerful and more generally applicable than those taught at the undergraduate level.	Student is competent in the most advanced techniques needed for research in the field. Student can synthesize and integrate results and relate them to hypotheses.	Student is competent in techniques needed for research in the field. Student can accept or reject hypotheses.	Student is competent in analytical techniques, with little understanding of the principles underlying the techniques. Student has difficulty addressing hypotheses.
3. The ability to independently read and understand the significance and limitations of the relevant literature.	Student actively searches all works directly and indirectly related to the research. Student can identify the strengths and limitations of various methods.	Student has read the literature related to the research, and understands how the research fits into the literature.	Student has read only some of the literature related to the research.
4. The ability to formulate, initiate, and complete new and innovative research projects that contribute to the advancement of the field.			
a. Impact on advancement of the field	Work has a strong impact on the field.	Work has an incremental impact on the field.	Work has no impact on the field.
b. Adequacy of the scope of the research	Work has examined many facets of the research.	Amount of work is adequate.	Amount of work is inadequate.

c. Adequacy of the depth of the research	Work deeply probes the principles behind the problem.	Work answers the basic questions of the problem.	Work addresses only the surface of the problem.
d. Novelty of the research	Student shows creativity in designing experiments and solving problems.	Student contributed originality to designing experiments and solving problems.	The student followed directions from his/her advisor.
5. The ability to communicate effectively in written and oral form.			
a. Quality of the writing style	Written sentences are complete and grammatical, and they flow together easily. Words are chosen for their precise meaning.	Writing is grammatically correct. Paragraphs and sentences may not flow together perfectly.	Writing contains grammatical errors.
b. Organization of the dissertation	Dissertation is logically organized and easy to follow.	Dissertation organization is clear.	Dissertation is poorly organized.
c. Organization of the presentation	Presentation is clear, logical and organized. Listener can follow the line of reasoning. Pacing is correct for the audience.	Listener can follow and understand the presentation.	Presentation is poorly organized. Presentation jumps around from topic to topic.
d. Clarity of language usage	Speaker is comfortable in front of the group and can be heard by all.	Grammatical errors and use of slang are evident. Some sentences may be incomplete.	Speaker is difficult to understand or hear.
e. Ability to answer questions	Student answered questions directly and clearly.	Student answered questions, but with some difficulty.	Student had difficulty understanding questions and answering clearly.
f. Quality of slides	Slides enhance the presentation and are prepared in a professional manner.	Slides are adequate for the presentation.	Slides are inadequate (writing too small, too much or too little information per slide).
6. The ability to conduct application-oriented research of an inter-disciplinary nature.			
a. Application-oriented research	Research has practical applications that are clear.	Research may have practical applications.	The practical application of the research is unclear.
b. Interdisciplinary research	Research required knowledge of, and interaction with, more than one discipline	Research involved some work or interaction with more than one discipline.	Research was completely within one discipline.

To be answered by the research advisor only:

Have any papers resulting from the dissertation work been accepted for publication in peer-reviewed journals? ____Yes ____No

Does the student have a master's degree? ____Yes ____No