DEPARTMENT OF MECHANICAL ENGINEERING UNIVERSITY OF COLORADO BOULDER

Research Preliminary Exam

The Research Preliminary Exam is a presentation of research to a committee of three that must include the student's research advisor and at least one other ME faculty member. Students should view this as an early thesis proposal.

Students will schedule this exam on their own and should complete it within one semester of passing the Oral Fundamental Topic Preliminary Exam. Students must send a 5-page written report, including title, figures, and relevant references, to all committee members at least 1 week prior to the exam.

Student's Name		Date of Exam		Research Area	
1.	Literature and Previous Work Demonstrates sound knowledge of literature in the area, and of prior work on the specific research problem.				
	Needs Significant Improvement	Needs Improvement	Acceptable	Very Good Excellent	
2.	Problem Definition States the research problem and objectives clearly, providing motivation for undertaking the research.				
	Needs Significant Improvement	Needs Improvement	Acceptable	Very Good Excellent	
3.	Research Plan Provides a sound plan for applying state-of-the-field research methods/tools to solving the defined problem and shows a good understanding of how to use methods/tools effectively.				
	Needs Significant Improvement	Needs Improvement	Acceptable	Very Good Excellent	
4.	Preliminary and Expected Results Provides a sound plan for analyzing and interpreting research results/data.				
	Needs Significant Improvement	Needs Improvement	Acceptable	Very Good Excellent	
5.	Impact of Proposed Research Demonstrates the potential value of solution to the research problem in advancing knowledge within the area of study. Also demonstrates awareness of broader implications of the proposed research. Broader implications may include social, economic, technical, ethical, business, et aspects.				
	Needs Significant Improvement	Needs Improvement	Acceptable	Very Good Excellent	
6.	Quality of Written/Oral Communication Communicates research proposal clearly and professionally in both written and oral forms.				
	Needs Significant Improvement	Needs Improvement	Acceptable	Very Good Excellent	
7.	Critical Thinking Demonstrates capability for independent research in the area of study, preparedness in core disciplines relevant to research, and ability to complete the proposed research.				
	Needs Significant Improvement	Needs Improvement	Acceptable	Very Good Excellent	
8.	Overall Score				
	Pass Conditional Pass (see conditions below) Fail				
	Conditions:				
Advisor Name:		Signature:			
Committee Member:		Signature:			
Committee Member:		_	Signature:		