## Written Research Plan Approval Form Guidelines

Department of Chemistry and Biochemistry

A written research plan is required by each Ph.D. student to fulfill the written component of his or her General Doctoral Exam. According to the Graduate Student Handbook, upon receipt of a written research plan each member of a graduate student's advisory committee is to evaluate the document and return a grade of *Exceptional, Satisfactory*, or *Unsatisfactory*. At least a three-fourths majority of the committee must rate the research plan as *Satisfactory* or better in order to proceed on to the oral component of General Doctoral Exam. For the purposes of this form, the grades *E*, *S*, and *U* are taken to mean the following:

*E* = *Exceptional*: The research plan is excellent in its conception and writing, and it fulfills the required written

component of the Ph.D. qualifying exam. The student is free to proceed with scheduling the

oral examination component of the General Doctoral Examination.

S = Satisfactory: The research plan is of sufficient quality to pass the written requirement of the General

Doctoral Exam; the student is free to proceed to the oral component of the exam. An advisory committee member may have critiques or concerns with the research plan that do

not preclude its rating as Satisfactory. These can be addressed during the oral exam.

*U = Unsatisfactory*: The research plan is of insufficient quality to pass the written requirement of the General

Doctoral Examination. A revised research plan addressing the critiques of the members of the Advisory Committee is required before the student can proceed to the oral exam.

A student who receives a grade of *U* from two or more advisory committee members has two weeks to prepare and submit to the advisory committee a revised research plan which addresses the critiques raised by the committee members. A student who receives a grade of *U* on the revised research plan from two or more committee members, will have two weeks to submit a third and final version of the research plan. If the third version receives a grade of *U* from two or more committee members, the student will be deemed to have failed the written component of the Ph.D. qualifying exam and will not proceed on to the oral component of the exam.

*Instructions to the student*: Send your research plan to each committee member as an e-mail attachment. Fill out the Written Research Plan Approval Form (see the following page) by checking which draft of the proposal is to being evaluated, and filling in the spaces indicated with your name, and the names of your committee members. In our department, only four committee members (including your advisor) are required. Space is provided for additional committee members if it applies in your particular case. If not, simply fill in N/A for the name. Sign and date the form and give it to your advisor.

**Instructions to the committee member**: Two weeks are given for research plan review. Use the Written Research Plan Evaluation form to score the document and provide constructive comments to improve the research plan, particularly if a grade of *U* is going to be given. Upon completing your review, send your filled Written Research Plan Evaluation form to the advisor along with the overall grade (*E*, *S*, or *U*).

**Instructions to the advisor**: Upon receipt of committee feedback, fill in the grade provided by each committee member and determine whether or not the student has passed the written component of the General Doctoral Exam (i.e., has an S or better from at least ¾ of the committee). Compile the feedback of the advisory committee into a summary statement, and sign the form. Arrange a meeting with the student to communicate the grade received and summarize the feedback from the committee, and in cases where a U has been assigned, advice for submitting an improved research plan. Turn in the signed Approval Form and the Research Plan Evaluation Form from each committee member to the GPO, and provide copies of the same for the student.

## Written Research Plan Approval Form

Department of Chemistry and Biochemistry

	approval form accompanies the research plan prepared by hitted as fulfillment of the written requirement of the General Doctoral Exan	nination.		,	
This	research plan represents (check one):				
_ т	he first submitted draft of the research plan				
	A first revision of a previous unsatisfactory document				
	second revision of a previous unsatisfactory document				
Student signature:			e:		
	Committee Member	Ε	Grade S	U	
	research advisor				
	committee member #2				
	committee member #3				
	committee member #4				
	committee member #5				
	committee member #6				
Summary statement:					
•					
Rese	arch Advisor Signature	Da	ate:		

## **Written Research Plan Evaluation**

Research Plan Submitted by: Date: Research Plan Evaluated by:		
Please ran	ak the following items on a scale of $1-5$ , where 1 is least and 5 is greatest.	
Scientific (	<u>Content</u>	
1.	Knowledge of subject/background/significance. To what extent does the writer exhibit knowledge of the field pertaining to and forming the foundation of the research plan? Is the expertise of the writer undermined by misstatements, factual errors, or omission of important details? To what extent does the writer adequately communicate the significance of the research to be undertaken? Scientific significance may be expressed in terms of actual or potential applications to technology and/or contributions to understanding fundamental principles or phenomena in nature.	
2.	<b>Research Plan Coherence.</b> To what extent does the research plan have clear goals and objectives? Does the introductory material logically lead to the research problem to be addressed? Are the basis and rationale for the experimental approach clear?	
3.	<u>Technical Expertise</u> . To what extent are the methods appropriate to the research questions/problems being addressed? Does the writer exhibit a sufficient grasp of the methodology to be used and what/how it would contribute to the research plan?	
Writing Q	<u>uality</u>	
4.	<u>Clarity of Writing</u> . Is the research plan well organized? Are sections, paragraphs, and sentences clearly written and free of ambiguity? Does the document conform to the page limits prescribed by the Graduate Handbook? To what extent does the writer use proper grammar, punctuation, spelling, and capitalization, etc.?	
5.	<b>Quality of Figures.</b> Are the figures and schemes used by the writer legible, clearly described, and appropriately called out in the text? To what extent do the figures/schemes used by the author help to effectively communicate the key points of the research plan?	
6	. <u>Citations and use of source material</u> . Does the writer appropriately and correctly cite the sources used to support the research plan? Does the writer misattribute or fail to attribute the published work of others relevant to the research plan?	
<u>Summary</u>	<u>score</u>	
7.	Provide an overall rating of the Written Research Plan.	
Comment	s for improvement:	

Summary Score	Grade
Score ≥ 4	Ε
2 ≤ Score < 4	S
Score < 2	U