

Entomology and Nematology PhD Qualifying Exam – rev. 10/18

Student _____ Date _____ Committee member _____

Student Learning Outcome		SCORE	SCALE
SLO 1 (biology)	Information correct and relevant		4 = Exemplary 3 = Proficient 2 = Marginal 1 = Unacceptable
	Question fully answered		
	Terminology and citations		
	Interpretation of content		
	SLO 1 Biology SUM		
SLO 1 (entomology/nematology)	Information correct and relevant		4 = Exemplary 3 = Proficient 2 = Marginal 1 = Unacceptable
	Question fully answered		
	Terminology and citations		
	Interpretation of content		
	SLO 1 Entomology/Nematology SUM		
SLO 1 (research area)	Information correct and relevant		4 = Exemplary 3 = Proficient 2 = Marginal 1 = Unacceptable
	Question fully answered		
	Terminology and citations		
	Interpretation of content		
	SLO 1 Research area SUM		
Student Learning Outcome		SCORE	SCALE
SLO 2 Experimental design, research methodology and statistics	Statistical understanding		4 = Exemplary 3 = Proficient 2 = Marginal 1 = Unacceptable
	Experimental design understanding		
	SLO 2 Experimental design and statistics SUM		
Student Learning Outcome		SCORE	SCALE
SLO 3 Oral presentation skills ¹	Clarity - logical		4 = Exemplary 3 = Proficient 2 = Marginal 1 = Unacceptable
	Clarity - eloquent		
	Confidence		
	SLO 3 Oral presentation skills ¹ SUM		

SLO 3 Written skills ²	Content and organization		4 = Exemplary 3 = Proficient 2 = Marginal 1 = Unacceptable
	Syntax and mechanics – fluid and clear		
	Syntax and mechanics – error free		
	SLO 3 Written skills² SUM		
Student Learning Outcome		SCORE	SCALE
SLO 5 Critical thinking and application of inquiry and analysis ³	Judgment		4 = Exemplary 3 = Proficient 2 = Marginal 1 = Unacceptable
	Analysis of material		
	Synthesis of content		
	Reflection and evaluation		
	Advanced thinking and conceptualization		
	Logical flow		
	SLO 5 – PhD Critical thinking SUM		

These scores do not determine whether the student passes or fails the PhD qualifying exam. You can use the scores in your decision but there is no cut-off score below which the student fails the exam. All committee members should fill out a form and copies should be delivered to the Graduate Coordinator's office for deposit in the student's file. Supervisory committee chair - please share the results of this evaluation with your student, either summarizing their strengths/weaknesses or showing the individual score sheets.

SLO 1 (knowledge of discipline)	= _____ (maximum 48, minimum 12)
SLO 2 (knowledge of statistical and research methodology)	= _____ (maximum 8, minimum 2)
SLO 3 (oral communication skills)	= _____ (maximum 12, minimum 3)
SLO 3 (written communication skills)	= _____ (maximum 12, minimum 3)
SLO 5 (critical thinking ability)	= _____ (maximum 24, minimum 6)

Additional comments

		Exemplary (4)	Proficient (3)	Marginal (2)	Unacceptable (1)
SLO 1 Identify insects, other arthropods and/or nematodes, and describe their relationship with the environment and humans (Max. points 48, min. 12)	General knowledge in biology	<input type="checkbox"/> All information presented is both accurate and relevant	<input type="checkbox"/> Nearly all information presented is accurate and relevant	<input type="checkbox"/> Many inaccuracies and some misinterpretation of content and largely irrelevant	<input type="checkbox"/> Inaccurate or misinterpreted content and almost entirely irrelevant
		<input type="checkbox"/> Question is answered fully	<input type="checkbox"/> Question is essentially answered	<input type="checkbox"/> Multiple aspects of question unanswered	<input type="checkbox"/> Question not answered
		<input type="checkbox"/> Proper use of terminology and citations	<input type="checkbox"/> Mostly proper use of terminology and citations	<input type="checkbox"/> Improper use of terminology and citations	<input type="checkbox"/> Misuse of terminology and citations
		<input type="checkbox"/> Insightful interpretation of the content	<input type="checkbox"/> Demonstrates clear understanding of the content without misinterpretation	<input type="checkbox"/> Misinterpretation of content	<input type="checkbox"/> Gross misinterpretation of content
	General knowledge in entomology or nematology	<input type="checkbox"/> All information presented is both accurate and relevant	<input type="checkbox"/> Nearly all information presented is accurate and relevant	<input type="checkbox"/> Many inaccuracies and some misinterpretation of content and largely irrelevant	<input type="checkbox"/> Inaccurate or misinterpreted content and almost entirely irrelevant
		<input type="checkbox"/> Question is answered fully	<input type="checkbox"/> Question is essentially answered	<input type="checkbox"/> Multiple aspects of question unanswered	<input type="checkbox"/> Question not answered
		<input type="checkbox"/> Proper use of terminology and citations	<input type="checkbox"/> Mostly proper use of terminology and citations	<input type="checkbox"/> Improper use of terminology and citations	<input type="checkbox"/> Misuse of terminology and citations
		<input type="checkbox"/> Insightful interpretation of the content	<input type="checkbox"/> Demonstrates clear understanding of the content without misinterpretation	<input type="checkbox"/> Misinterpretation of content	<input type="checkbox"/> Gross misinterpretation of content

	In-depth knowledge in area of research specialization	<input type="checkbox"/> All information presented is both accurate and relevant	<input type="checkbox"/> Nearly all information presented is accurate and relevant	<input type="checkbox"/> Many inaccuracies and some misinterpretation of content and largely irrelevant	<input type="checkbox"/> Inaccurate or misinterpreted content and almost entirely irrelevant
		<input type="checkbox"/> Question is answered fully	<input type="checkbox"/> Question is essentially answered	<input type="checkbox"/> Multiple aspects of question unanswered	<input type="checkbox"/> Question not answered
		<input type="checkbox"/> Proper use of terminology and citations	<input type="checkbox"/> Mostly proper use of terminology and citations	<input type="checkbox"/> Improper use of terminology and citations	<input type="checkbox"/> Misuse of terminology and citations
		<input type="checkbox"/> Insightful interpretation of the content	<input type="checkbox"/> Demonstrates clear understanding of the content without misinterpretation	<input type="checkbox"/> Misinterpretation of content	<input type="checkbox"/> Gross misinterpretation of content
SLO 2 Discuss appropriate research methodology, including aspects of statistical design and analysis, in the execution of arthropod research (Max. points 8, min. 2)	General knowledge in statistics and experimental method	<input type="checkbox"/> Answers all statistical questions correctly, in detail and logically	<input type="checkbox"/> Answers all statistical questions in some detail	<input type="checkbox"/> Attempts all statistical questions but has errors in answers	<input type="checkbox"/> Does not attempt to answer all statistical questions and/or has many errors
		<input type="checkbox"/> Answers all experimental methodology questions correctly, in detail and logically	<input type="checkbox"/> Answers all experimental methodology questions in some detail	<input type="checkbox"/> Attempts all experimental methodology questions but has errors in answers	<input type="checkbox"/> Does not attempt to answer all experimental methodology questions and/or has many errors
SLO 3	Clarity	<input type="checkbox"/> Provides logically developed, thoughtful answers consistently	<input type="checkbox"/> Provides logical answers most of the time	<input type="checkbox"/> Answers may not be logical all the time	<input type="checkbox"/> Answers are confusing, illogical

Clearly and confidently communicate science in oral exam (Max. points 12, min. 3)		<input type="checkbox"/> Language is eloquent	<input type="checkbox"/> Language is straightforward	<input type="checkbox"/> Language is awkward	<input type="checkbox"/> Language is poor
	Confidence	<input type="checkbox"/> Confident in verbal communication skills	<input type="checkbox"/> Usually confident in verbal communication skills	<input type="checkbox"/> Somewhat confident in verbal communication skills	<input type="checkbox"/> Rarely confident in verbal communication skills
SLO 3 Clearly communicate science in written exam <i>(if written exam is given)</i> (Max. points 12, min. 3)	Content and organization	<input type="checkbox"/> Uses appropriate, relevant, and compelling content to illustrate mastery of the subject, conveying the writer's understanding of the questions	<input type="checkbox"/> Uses appropriate, relevant, and compelling content to explore ideas within the context of the questions	<input type="checkbox"/> Uses appropriate and relevant content to develop and explore ideas throughout most of the exam	<input type="checkbox"/> Does not use appropriate and relevant content to develop simple ideas
	Syntax and mechanics	<input type="checkbox"/> Uses language that skillfully communicates meaning to readers with clarity and fluency	<input type="checkbox"/> Uses straightforward language that generally conveys meaning to readers	<input type="checkbox"/> Uses language that generally conveys meaning to reader with clarity	<input type="checkbox"/> Uses language that sometimes impedes meaning
		<input type="checkbox"/> Writing is virtually error-free	<input type="checkbox"/> Writing has few errors	<input type="checkbox"/> Writing may include many errors	<input type="checkbox"/> Writing has many errors
SLO 5 Critical thinking ability – ability to synthesize and extrapolate	Judgment	<input type="checkbox"/> Valid judgments based on evidence	<input type="checkbox"/> Nearly all judgments are valid and based on evidence	<input type="checkbox"/> Judgments are occasionally invalid	<input type="checkbox"/> Invalid judgments based on evidence provided
	Analysis of material	<input type="checkbox"/> Analysis of material is insightful and conclusions are fully defensible	<input type="checkbox"/> Analysis of material is accurate and conclusions are defensible	<input type="checkbox"/> Analysis of material is inaccurate and conclusions are rarely defensible	<input type="checkbox"/> Indefensible conclusions
	Synthesis of content	<input type="checkbox"/> Synthesis of content is clearly evident	<input type="checkbox"/> Content synthesized well for the most part	<input type="checkbox"/> Merely recalls information, lists and defines but	<input type="checkbox"/> No synthesis evident

(Max. points 24, min. 6)				rarely synthesizes content	
	Reflection and evaluation	<input type="checkbox"/> Response is deeply reflective and evaluative	<input type="checkbox"/> Response is reflective and evaluative	<input type="checkbox"/> Responses are rarely evaluative	<input type="checkbox"/> Response is not reflective or evaluative
	Advanced thinking and conceptualization	<input type="checkbox"/> Exhibits advanced thinking and conceptualization	<input type="checkbox"/> Exhibits clear thinking and conceptualization	<input type="checkbox"/> Little ability to detect patterns or conceptualize	<input type="checkbox"/> No advanced thinking or conceptualization
	Logical flow	<input type="checkbox"/> Logical flow of ideas	<input type="checkbox"/> Ideas tend to flow logically	<input type="checkbox"/> Flow of ideas is rarely logical	<input type="checkbox"/> Illogical flow of ideas