Entomology and Nematology M.S. Final Exam – rev. 10/18

Student _____   Date _____   Committee member_____

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

SLO 3	Content and organization		4 = Exemplary
	Syntax and mechanics – clarity and fluidity		3 = Proficient
Written skills[2]	Syntax and mechanics – error free		
			2 = Marginal
			1 = Unacceptable
	SLO 3 Written skills[2] **SUM**		

Student Learning Outcome		**SCORE**	**SCALE**
SLO 4	Judgment		4 = Exemplary
Critical thinking and application of inquiry and analysis[3]	Analysis of material		3 = Proficient
	Synthesis of content		
	Reflection and evaluation		2 = Marginal
	Advanced thinking and conceptualization		1 = Unacceptable
	Logical flow		
	SLO 4 Critical thinking **SUM**		

These scores do not determine whether the student passes or fails the M.S. final 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. <u>Supervisory committee chair</u> - 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 4 (critical thinking ability)   = _____ (maximum 24, minimum 6)

<u>Additional comments</u>

		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	☐ All information presented is both accurate and relevant	☐ Nearly all information presented is accurate and relevant	☐ Many inaccuracies and some misinterpretation of content and largely irrelevant	☐ Inaccurate or misinterpreted content and almost entirely irrelevant
		☐ Question is answered fully	☐ Question is essentially answered	☐ Multiple aspects of question unanswered	☐ Question not answered
		☐ Proper use of terminology and citations	☐ Mostly proper use of terminology and citations	☐ Improper use of terminology and citations	☐ Misuse of terminology and citations
		☐ Insightful interpretation of the content	☐ Demonstrates clear understanding of the content without misinterpretation	☐ Misinterpretation of content	☐ Gross misinterpretation of content
	General knowledge in entomology or nematology	☐ All information presented is both accurate and relevant	☐ Nearly all information presented is accurate and relevant	☐ Many inaccuracies and some misinterpretation of content and largely irrelevant	☐ Inaccurate or misinterpreted content and almost entirely irrelevant
		☐ Question is answered fully	☐ Question is essentially answered	☐ Multiple aspects of question unanswered	☐ Question not answered
		☐ Proper use of terminology and citations	☐ Mostly proper use of terminology and citations	☐ Improper use of terminology and citations	☐ Misuse of terminology and citations
		☐ Insightful interpretation of the content	☐ Demonstrates clear understanding of the content without misinterpretation	☐ Misinterpretation of content	☐ Gross misinterpretation of content

	In-depth knowledge in area of research specialization	☐ All information presented is both accurate and relevant	☐ Nearly all information presented is accurate and relevant	☐ Many inaccuracies and some misinterpretation of content and largely irrelevant	☐ Inaccurate or misinterpreted content and almost entirely irrelevant
		☐ Question is answered fully	☐ Question is essentially answered	☐ Multiple aspects of question unanswered	☐ Question not answered
		☐ Proper use of terminology and citations	☐ Mostly proper use of terminology and citations	☐ Improper use of terminology and citations	☐ Misuse of terminology and citations
		☐ Insightful interpretation of the content	☐ Demonstrates clear understanding of the content without misinterpretation	☐ Misinterpretation of content	☐ 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	☐ Answers all statistical questions correctly, in detail and logically	☐ Answers all statistical questions in some detail	☐ Attempts all statistical questions but has errors in answers	☐ Does not attempt to answer all statistical questions and/or has many errors
		☐ Answers all experimental methodology questions correctly, in detail and logically	☐ Answers all experimental methodology questions in some detail	☐ Attempts all experimental methodology questions but has errors in answers	☐ Does not attempt to answer all experimental methodology questions and/or has many errors
SLO 3	Clarity	☐ Provides logically developed, thoughtful answers consistently	☐ Provides logical answers most of the time	☐ Answers may not be logical all the time	☐ Answers are confusing, illogical

Clearly and confidently communicate science in **oral** exam (Max. points 12, min. 3)		☐ Language is eloquent	☐ Language is straightforward	☐ Language is awkward	☐ Language is poor
	Confidence	☐ Confident in verbal communication skills	☐ Usually confident in verbal communication skills	☐ Somewhat confident in verbal communication skills	☐ Rarely confident in verbal communication skills
SLO 3 Clearly communicate science in **written** exam (*if written exam is given*) (Max. points 12, min. 3)	Content and organization	☐ Uses appropriate, relevant, and compelling content to illustrate mastery of the subject, conveying the writer's understanding of the questions	☐ Uses appropriate, relevant, and compelling content to explore ideas within the context of the questions	☐ Uses appropriate and relevant content to develop and explore ideas throughout most of the exam	☐ Does not use appropriate and relevant content to develop simple ideas
	Syntax and mechanics	☐ Uses language that skillfully communicates meaning to readers with clarity and fluency	☐ Uses straightforward language that generally conveys meaning to readers	☐ Uses language that generally conveys meaning to reader with clarity	☐ Uses language that sometimes impedes meaning
		☐ Writing is virtually error-free	☐ Writing has few errors	☐ Writing may include many errors	☐ Writing has many errors
SLO 4 Critical thinking ability – ability to synthesize and extrapolate	Judgment	☐ Valid judgments based on evidence	☐ Nearly all judgments are valid and based on evidence	☐ Judgments are occasionally invalid	☐ Invalid judgments based on evidence provided
	Analysis of material	☐ Analysis of material is insightful and conclusions are fully defensible	☐ Analysis of material is accurate and conclusions are defensible	☐ Analysis of material is inaccurate and conclusions are rarely defensible	☐ Indefensible conclusions
	Synthesis of content	☐ Synthesis of content is clearly evident	☐ Content synthesized well for the most part	☐ Merely recalls information, lists and defines but	☐ No synthesis evident

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

SLO Achievement