

Masters of Science Graduate Curriculum - Entomology

Requirements for MS students entering Fall 2018 and beyond

Rev. 08/30/18

Master of Science (MS)

The curriculum for students seeking an MS in Entomology is composed of an individualized blend of required and selective coursework and professional development activities. Students are encouraged to explore their field of study and develop an academic program that broadly reflects their interests. MS candidates will also be challenged through a range of academic pursuits that include the development of a written research proposal describing their project, development of a written thesis and a rigorous oral defense of that thesis. A total of 30 credit hours, including research credits, are required for the degree. Students entering the graduate program with no prior coursework in general entomology are required to complete one additional course in Insect Biology*

Although scheduling of courses is up to the student and major professor, students generally complete coursework requirements early in the degree program in order to focus on thesis/dissertation research later in the program.

Required Courses

Ethics

GRAD 61200	Responsible Conduct in Research (variable)	1 cr	Fall & Spring
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Entomology

ENTM 60000	Graduate Student Orientation (Krupke)	1 cr	Fall
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ENTM 60200*	Insect Biology (Neal/Yaninek)	3 cr	Fall
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*Required only of students with no prior coursework in general entomology

Selective Courses (14-15 credits): Select one from each sub-heading below.

Substitutions to courses on this list should be discussed with the major professor and/or the student's committee

Super-organismal (select 1)

ENTM 51000	Insect Pest Management (Krupke)	3 cr	Fall even years
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ENTM 69200	Biological Control (Yaninek)	3 cr	Spring odd years
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Organismal

ENTM 52500	Medical & Veterinary Entomology (Hill)	3 cr	Spring odd years
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Sub-organismal

ENTM 61100	Toxicology of Insecticides (Scharf)	3 cr	Spring odd years
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Statistics (select 1)

BIOL 59500	Ecological Statistics (Fernandez-Juricic)	3 cr	Fall
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ENTM 64200	Analysis of Ecological Data (Holland)	3 cr	Spring
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STAT 50300	Statistical Methods for Biology (variable)	3 cr	Fall & Spring
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Special Topics (select 1)

ENTM 69200**	Special Topics in Entomology	variable	Fall & Spring
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**See page 3-4 for course titles, availability and instructor

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Professional Development: Select 1 course & 1 presentation/writing activity

Coursework

GRAD 59000	Preparing Future Faculty (variable)	1-3 cr	Spring
GRAD 59000	Preparing Future Professionals (variable)	1-3 cr	Fall
GRAD 59000	Scientific Communication for the Engaging Researcher (Mason)	2 cr	Spring

Presentation/Writing Activities***

Laboratory Instruction (Teaching Assistantship)
Prepare and Present a Guest Lecture
Departmental Seminar (Department of Entomology or elsewhere)
Oral Presentation at Scientific Meeting (ESA, OVEA, other)
Extension Presentation (meeting, workshop, field day)
Center for Instructional Excellence (CIE) teaching workshop
Manuscript Review (refereed scientific journal)
Manuscript Submission (refereed scientific journal)

***Professional development activities must be documented

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Schedule of Courses

Schedule reflects known course offerings as of Summer 2018. Course listings are subject to change.

2-3 courses	1 course from each category				1 course	1 course
Required	Super Organismal	Organismal	Sub Organismal	Statistics	Professional Development	Special Topics

Fall 2018			
Course #	Credits	Instructor	Course Title
ENTM 60000	1	Krupke	Graduate Student Orientation
ENTM 60200	3	Neal	Insect Biology*
ENTM 61200	1	variable	Responsible Conduct in Research
STAT 50300	3	variable	Statistical Methods for Biologists
BIOL 59500	3	Fernandez-Juricic	Ecological Statistics
GRAD 59000	2	Morgan	Preparing Future Professionals
ENTM 51000	3	Krupke	Insect Pest Management
ENTM 69200	1	Scharf	Insecticide Resistance: Mechanisms, Evolution & Management
ENTM 69200	1	Kaplan/Enders	Science Writing I

Spring 2019			
Course #	Credits	Instructor	Course Title
ENTM 61200	1	variable	Responsible Conduct in Research
STAT 50300	3	variable	Statistical Methods for Biologists
GRAD 59000	2	Mason	Scientific Communication for the Engaging Researcher
GRAD 59000	2	Morgan	Preparing Future Faculty
ENTM 52500	3	Hill	Medical & Veterinary Entomology
ENTM 69200	3	Yaninek	Biocontrol
ENTM 61100	3	Scharf	Toxicology of Insecticides
ENTM 69200	1	Bennett	Advances in Urban Entomology

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Fall 2019			
Course #	Credits	Instructor	Course Title
ENTM 60000	1	Krupke	Graduate Student Orientation
ENTM 60200	3	Yaninek	Insect Biology*
ENTM 61200	1	variable	Responsible Conduct in Research
STAT 50300	3	variable	Statistical Methods for Biologists
BIOL 59500	3	Fernandez-Juricic	Ecological Statistics
GRAD 59000	2	Morgan	Preparing Future Professionals
ENTM 69200	1	TBD	TBD

Spring 2020			
Course #	Credits	Instructor	Course Title
ENTM 61200	1	variable	Responsible Conduct in Research
STAT 50300	3	variable	Statistical Methods for Biologists
ENTM 642	3	Holland	Analysis of Ecological Data
GRAD 59000	2	Mason	Scientific Communication for the Engaging Researcher
GRAD 59000	2	Morgan	Preparing Future Faculty
ENTM 69200	1	TBD	TBD

Fall 2020			
Course #	Credits	Instructor	Course Title
ENTM 60000	1	Krupke	Graduate Student Orientation
ENTM 60200	3	Neal	Insect Biology*
ENTM 61200	1	variable	Responsible Conduct in Research
STAT 50300	3	variable	Statistical Methods for Biologists
BIOL 59500	3	Fernandez-Juricic	Ecological Statistics
GRAD 59000	2	Morgan	Preparing Future Professionals
ENTM 51000	3	Krupke	Insect Pest Management
ENTM 69200	1	TBD	TBD