

Sample course plans for Entomology Majors entering OSU as Freshmen

*Course plans are *suggestions* of courses that best fit a student's interests*

Students should consult with their Academic Advisor about which Course Plan is best for them

Advisors:

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Insect Ecology and Conservation

<u>Required ENTMLGY Core Courses</u>	<u>Credits</u>	<u>Semester(s) Offered</u>
ENTMLGY 4000 General Entomology Lecture	3	AU, SP
ENTMLGY 4001 General Entomology Lab	1	AU
ENTMLGY 5604 Capstone Problem-Based Studies in Plant Health	2	SP

<u>Required Supplemental Courses (Minor Equivalent)</u>	<u>Credits</u>	<u>Semester(s) Offered</u>
MATH 1151 Calculus I	5	AU, SP
EEOB 3410 Ecology	4	AU, SP
MOLGEN 4500 General Genetics	3	AU, SP

<u>Required Course in Applied Entomology</u>	<u>Credits</u>	<u>Semester(s) Offered</u>
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Students must earn credit for ONE of the following courses:

ENTMLGY 4601 General Insect Pest Management	2	AU
ENTMLGY 4607 Veterinary Entomology	2	AU, SP
ENTMLGY 5110 Ecology and Management of Pathogens and Insects Affecting Trees in Forest and Urban Environments	3	TBD
ENTMLGY 5605 Vector Biology and Vector Borne Diseases	3	AU
ENTMLGY 5608 Turfgrass Insect and Mite Pests	2	SP
ENTMLGY 5609 Landscape and Ornamental Plant Insect and Mites Pests	3	SP

Required Courses for CFAES GE Requirements for the B.S. in Agriculture

FAES 1100	.5
ENTMLGY 1100	.5
Social Science 1 (RURLSOC 1500 or SOCIOL 1101)	3
Writing Level 1 (English 1110)	3
Social Science 2 (AEDECON 2001 or ECON 2001)	3
Writing Level 2 (see suggested courses below)	3
Historical Study	3
Agr Comm 3130 or Comm 2110	3
Culture & Ideas or Historical Study	3
MATH 1150	4
Literature	3
Data Analysis (Comldr 3537, AEDE 2005, AnSci 2260, HCS 2260, ENR 2000, Stat 1450)	3
Art	3
Biology 1113	4
Biology 1114	4
Contemporary Issues	3

Suggested Courses for CFAES GE Requirements for the B.S. in Agriculture**Social Science 1**

RURLSOC 1500 Rural Sociology 3 AU

Social Science 2

AEDECON 2001 Economics 3 SP

Data Analysis

HCS 2260 Data Analysis 3 SP

Historical Study

See [Approved CFAES GE List](#) 3

Culture and Ideas or Historical Study

See [Approved CFAES GE List](#) 3

Literature

See [Approved CFAES GE List](#) 3

Art

See [Approved CFAES GE List](#) 3

Contemporary Issues

See [Approved CFAES GE List](#) 3

Writing Level 2

See [Approved CFAES GE List](#)

Communications

AGRCOMM 3130 Oral Expression 3 SP

Suggested ENTMLGY Electives for Insect Ecology and Conservation

ENTMLGY 2101	Insects in Human Affairs	3	AU, SP
ENTMLGY 2200	Bee Keeping	2	SP
ENTMLGY 3330	Social Insects	3	AU
ENTMLGY 4440H	Honors Social Insects	3	SP
ENTMLGY 4999	Research with Distinction	1 – 6	AU, SP, SU
ENTMLGY 4999H	Honors Research with Distinction	1 – 6	AU, SP, SU
ENTMLGY 4601	General Insect Pest Management	2	AU
ENTMLGY 5110	Ecology and Management of Pathogens and Insects Affecting Trees in Forest and Urban Environments	3	TBD
ENTMLGY 5350	Taxonomy and Behavior of Aquatic Invertebrates	3	SP every other year
ENTMLGY 5490	Insect Behavior	3	SP every other year
ENTMLGY 5500	Biological Control of Arthropod Pests	3	SP
ENTMLGY 5600	Principles and Applications of Integrated Pest Management	3	SP
ENTMLGY 5608	Turfgrass Insect and Mite Pests	2	SP
ENTMLGY 5609	Landscape and Ornamental Plant Insect and Mites Pests	3	SP
ENTMLGY 5610	Greenhouse Plant Health and Pest Management	3	TBD
ENTMLGY 5800	Pesticide Science	3	SP

Suggested NON-ENTMLGY Electives for Insect Ecology and Conservation Credits**Semester(s) Offered****Suggested AEDECON Electives for Insect Ecology and Conservation**

AEDECON 2001	Economics	3	SP
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Suggested AGRCOMM Elective for Insect Ecology and Conservation

AGRCOMM 3130	Oral Expression	3	SP
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Suggested BIOCHEM Elective for Insect Ecology and Conservation

BIOCHEM 4511	Introduction to Biological Chemistry	4	AU, SP
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Suggested CHEM Electives for Insect Ecology and Conservation

CHEM 2510	Organic Chemistry I	4	AU, SP
CHEM 2520	Organic Chemistry II	4	AU, SP
CHEM 2540	Organic Chemistry Lab	2	AU, SP
CHEM 2550	Organic Chemistry Lab II	2	AU, SP

Suggested ECON Elective for Insect Ecology and Conservation

ECON 2001	Microeconomics	3	SP
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Suggested ENR Elective for Insect Ecology and Conservation

ENR 2367	Communications	3	AU, SP
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Suggested HCS Elective for Insect Ecology and Conservation

HCS 2260	Data Analysis	3	SP
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Suggested MOLGEN Electives for Insect Ecology and Conservation

MOLGEN 3436	Introductory Plant Physiology	3	AU
MOLGEN 4700	Molecular Cell and Developmental Biology	3	SP

Other Electives

Electives to fulfill Minor, Dual Degree, or Double Major Requirements.

Sample 4-year Course Plan for Insect Ecology and Conservation**First Year**

Autumn semester		Spring semester	
FAES 1100 (Intro to Food, Ag, EnvSci)	0.5	BIOLOGY 1114 (Bio Sci 2)	4
ENTMLGY 1100 (Exploring Entomology)	0.5	CHEM 1220 (General Chem 2)	5
BIOLOGY 1113 (Bio Sci 1)	4	MATH 1151 (Calculus 1)	5
CHEM 1210 (General Chem 1)	5	ENGLISH 1110.01 (Composition)	3
MATH 1150 (Pre-calculus)	5		
Total	15	Total	17

Second Year

Autumn semester		Spring semester	
ENTMLGY4000 (General Entomology Lecture)	3	ENTMLGY Elective	3
ENTMLGY 4001 (General Entomology Lab)	1	HCS 2260 (Data Analysis)	3
CHEM 2310 (Intro Organic Chem.)	4	ECON 2001.01 (Microeconomics)	3
MATH 1152 (Calculus 2)	5	AGRCOMM 3130 (Oral Expression)	3
ENR 2367 or other 2 nd writing course	3	SOCIOL 1101 (Intro Sociology)	3
Total	16	Total	15

Third Year

Autumn semester		Spring semester	
ENTMLGY Elective	3	ENTMLGY Elective	3
MOLGEN 4500 (Genetics)	3	BIOCHEM 4511 (Intro Biochem)	4
EEOB 3410 (Ecology)	4	History gen. ed. course	3
Literature gen. ed. course	3	Arts gen. ed. course	3
Other Electives	3	Other Electives	3
Total	16	Total	16

Fourth Year

Summer/autumn	Autumn semester		Spring semester	
ENTMLGY 4191 (Internship) 1	ENTMLGY Elective(s) or other elective	4	PLANT PATH 3597 (Societal Issues)	3
	Other Electives	9	ENTMLGY 5604 (capstone).	3
			Cultures & Ideas gen. ed. course	3
			Other Electives	3
			ENTMLGY Elective	1
Total 1	Total	13	Total	13