

From: [Smith, Randy](#)
To: [Klinger, Ellen](#); [Osborne, Jeanne](#)
Cc: [Sutherland, Sue](#); [Smith, Randy](#); [Griffiths, Rob](#); [Reed, Katie](#); [Duffy, Lisa](#); [Hunt, Ryan](#); [Strange, Jamie](#); [Washburn, Shannon](#); [Kress, Cathann](#)
Subject: Proposal to revise the Entomology BS AGR
Date: Friday, July 24, 2026 11:53:51 AM
Attachments: [image001.png](#)

Ellen and Jeanne:

The proposal from the Department of Entomology to revise the Entomology major leading to the Bachelor of Science in Agriculture degree was approved by the Council on Academic Affairs at its meeting on July 23, 2026. Thank you for attending the meeting to respond to questions/comments.

No additional level of internal review/approval is necessary. This action will be included in the Council's next Annual Activities Report to the University Senate (July 2026).

The Office of the University Registrar will work you with any implementation issues.

Please keep a copy of this message for your file on the proposal and I will do the same for the file in the Office of Academic Affairs.

If you have any questions please contact the Chair of the Council, Professor Sue Sutherland (.43), or me.

I wish you success with this important program development.

Randy



W. Randy Smith, Ph.D.

Vice Provost for Academic Programs

Office of Academic Affairs

University Square South, 15 E. 15th Avenue, Columbus, OH 43201

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Assisted by:

Katie Reed

Executive Assistant

(614) 292-5672

From: [Osborne, Jeanne](#)
To: [Smith, Randy](#)
Cc: [Reed, Katie](#); [Violet, Cynthia](#); [Lewandowski, Monica](#); [Klinger, Ellen](#); [Philip, Benjamin](#)
Subject: Requesting CAA Approval for revision to the Entomology BS AGR
Date: Monday, April 20, 2026 2:32:24 PM
Attachments: [image001.png](#)
[ENTMLGY BS AGR Program Change April 2026.pdf v.4.pdf](#)

Dear Dr. Smith,

The College of Food, Agricultural, and Environmental Sciences is requesting Council on Academic Affairs approval for revision to the Entomology BS AGR as summarized below and outlined in the attached proposal, effective AU27.

The proposed changes to the major strengthen the disciplinary identity of the major in response to student, faculty and other stakeholder feedback by including more courses in the Entomology discipline and at an earlier stage in the student's educational career. Also, the proposed revisions to the major address barriers to student retention, progression to degree and completion without impacting the integrity of the degree or the knowledge needed by students to advance to their career goals. Students who are interested in continuing their education to graduate school will be advised on advancing their coursework in chemistry and mathematics to support their educational goals.

Overall, it is estimated that the change to the major is approximately 26% and there is no anticipated impact on the assessment plan for the major. Current students will not be affected by these changes, and any impacts will be managed by petition.

This proposal has been approved by the Academic Affairs Committee of the Department of Entomology and approved by the CFAES Committee on Academic Affairs. Please let me know if any additional information is needed in support of this request.

Sincerely,

Jeanne



Jeanne M. Osborne

Assistant Dean for Academic Affairs
College of Food, Agricultural, and Environmental Sciences
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'Unexpected kindness is the most powerful, least costly, and most underrated

agent of human change' (Bob Kerrey)



DATE: April 6, 2026
TO: Jeanne Osborne, Assistant Dean Academic Affairs
FROM: Ellen Klinger, Associate Professor Professional Practice
RE: Modifications of ENTMLGY BS Agr. Program

Dear Assistant Dean Osborne:

The Department of Entomology requests approval for modifications to the Bachelor of Science in Agriculture, Major: Entomology. These revisions are intended to strengthen the disciplinary identity of the major in the curriculum and improve student recruitment and retention in the program.

The proposed updates respond to four programmatic needs identified through college and departmental review. First, the current curriculum requires comparatively fewer Department of Entomology (TIU) credit hours than many other CFAES majors, and students consistently express interest in taking additional entomology coursework; increasing the ENTMLGY presence better reflects the students' interest. Second, currently required calculus and chemistry sequences have posed progression barriers for many students, particularly those needing additional math preparation before engaging with the courses in our major. Third, the current course sequencing provides limited early engagement in entomology, and revisions to the first-year plan are intended to support stronger momentum into the major and more coherent scaffolding toward upper-division work. Finally, there are some new courses and some existing courses that we want to offer as elective class options.

Overview of curricular changes and proposed course changes.

Increase in major credits: We increased the credits allocated to the major from 36 to 41 credit hours, driven primarily by a shift of five credits from supporting coursework (CHEM 1220; see below) into entomology electives. The additional 5 credits can be seen in the increase of credits for entomology electives from 11 to 16.

Removal of 3000+ requirement for electives: We changed the wording requiring 9 credits of a 3000+ course. We offer two 2000 level courses that are very different in discipline specific content, ENTMLGY 2200 (Beekeeping) and ENTMLGY 2101 (Insects and Human Affairs). In addition, both 2000 level courses are available at the Wooster campus, further supporting student progression for those students enrolled in our 1+3 ATI pathway.

Editing of verbiage in elective description: We added the word additional to refer to applied entomology courses that can also be taken as electives, as this is a current point of confusion for students.



Additional electives: We wish to add the following as approved entomology electives to our list:

- ENTMLGY 3600 (3cr) Insect Life in a Changing World (new course)
- ENTMLGY 4193 (1-3 cr.) Individual Studies
- ENTMLGY 5610 (3 cr) Greenhouse Plant Health and Plant Management

Correction to Applied Entomology course list: ENTMLGY 5110 is erroneously labeled as 2 credits, we wish to correct to 3 credits.

Edit the major related electives options: Add the option of up to 6 hours of additional ENTMLGY at the 3000 level or higher to be applied as major related electives; add Chem 1220 as an acceptable major related elective.

Edit major elective verbiage: Remove “Non Entomology” from the description of the courses; add in sentence that states “Maximum of 6 credits can be ENTMLGY courses”

Major supporting coursework is reduced from 10 to 5 credit hours by removing CHEM 1220 as a required supporting course while retaining CHEM 1210 as supporting coursework

Add option for minor equivalent course: We would like to add a second option to the Calculus courses (1151 or 1156) in our minor equivalent curriculum. To better meet the needs of some of our students, we wish to offer an additional pathway for statistics coursework. To create 5 credits of coursework to replace Calculus, we wish to offer a two course sequence, 3 credits of an introductory statistics course (STAT 1450, 1450.01, 1450.02, ANIMSCI 2260, ENR2000, COMLDR 3537 or HCS 2260) and 2-3 credits of an auxiliary statistics course to supplement and enhance their learning (STAT2510.02, STAT5731 and STAT5732, or EEOB 3494 or another advanced statistics or statistical programming course that requires introductory statistics as a prerequisite).

Revision of the four year degree plan: Our current 4 year plan includes CHEM 1220 as a second semester first year course. As this is being removed and placed as an elective in this degree revision, we are opting to list either one of our 2000 level entomology courses in this slot instead. This allows us to direct students to a major entomology course in their first year at Ohio State. ENTMLGY 2101 is a GE option and should be available to all students online and asynchronously. ENTMLGY 2200 is offered hybrid at both the Columbus and Wooster campuses, supporting our ATI 1+3 pathway well.



Percent change in the overall major.

We estimate the percent change in the degree to be no higher than 26%. These changes are:

Category	Current credit	Proposed credit	Percent change (based on 121 total)
General education	34-38	34-38	0%
Degree requirements and minor equivalent	21-22	21-23	0.8%
Major supporting coursework	10	5	4%
Open electives	15-20	14-20	0.8%
Available new courses		9 potential	7.4%
Major related electives with new entomology availability		11 potential	9%

We intentionally err on the high side to ensure transparency in capturing the full scope of both structural and access-related changes, many students will not be exposed to this level of programmatic change in practice.

Impact on students currently enrolled and transition plan. The impact on currently enrolled students is expected to be minimal. No previously approved course options are being removed; therefore, current students will not be restricted in the courses they may take or in their ability to complete degree requirements. Because newly listed elective options (including ENTMLGY 3600, 4193, and 5610 as reflected on the proposed sheet) may not appear on older curriculum sheets, students following prior requirements may need to use established petition processes to apply these courses toward degree requirements where appropriate. Likewise, students in our ATI 1+3 pathway will not be affected by the changes, as there are options of coursework available to them to not impede their progress.

Impact on assessment. The Department does not anticipate negative impacts on the program's assessment plan. Courses currently used for assessment will continue to be offered, and the three newly listed courses will be evaluated as potential future assessment points as appropriate.



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These modifications were approved by a vote of the Department of Entomology faculty on **December 16, 2025**. Please let me know if you would like any additional information or clarification in support of this request.

Ellen Klinger, Associate Professor Entomology
Entomology Department Curricular Chair

CURRENT

Bachelor of Science in Agriculture Major: Entomology

The entomology major couples a strong background in the biological sciences with in-depth study of insect biology and applied entomology. Students learn insect physiology, behavior, ecology and taxonomy, as well as beekeeping, veterinary and public health entomology, sustainable agriculture, and integrated pest management in agricultural, forest and urban environments. Students in this major will complete a minimum of 121 hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Seminar	GENED 1201	1
Writing and Information Literacy	Student Choice	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1150 * (or <i>Student Choice – see below</i>)	5
Literary, Visual and Performing Arts	Student Choice	3
Historical & Cultural Studies	Student Choice	3
Natural Science	Major requirement: BIOLOGY 1113 * (or <i>Student Choice – see below</i>)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or <i>Student Choice – see below</i>)	3
Race, Ethnic and Gender Diversity	Student Choice	3
Theme: Citizenship for a Diverse & Just World^a	Student Choice	4-6
Theme: Student Choice^a	Student Choice	4-6
GE Reflection	GENED 4001	1
General Education Credit Hours:		34-38*

* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student chooses an alternative course in this GE category, **they must also complete this course.**

B.S. in Agriculture Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) & ENTMLGY 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	BIOLOGY 1114	4
Internship	FAES 3191 & ENTMLGY 4191	1-2
Minor Equiv. ^b	MATH 1151 Calculus I (5) -or- MATH 1156 Calculus for the Bio. Sci. (5) EEOB 3410 Ecology (4) MOLGEN 4500 General Genetics (3)	12
Credit Hours:		21-22

^a Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ♦ symbol.

^b Students in this program complete a group of courses called a minor equivalent. Declaring an additional minor is not required.

^c A limit of 3 credit hours of 4998, 4999, and/or 4999H combined may be applied towards major hours.

Major Supporting Coursework		
Course	Title	Hours
CHEM 1210	General Chemistry I	5
CHEM 1220	General Chemistry II	5
Credit Hours:		10

Major Coursework		
Course	Title	Hours
ENTMLGY 4000	General Entomology	3
ENTMLGY 4001	General Entomology Laboratory	1
ENTMLGY 5604	Capstone: Problem-Based Studies in Plant Health	2
<i>Select one applied entomology course:</i>		
ENTMLGY 4601	General Insect Pest Management	2
ENTMLGY 4607	Veterinary Entomology	2
ENTMLGY 5110	Ecology and Mgmt. of Pathogens and Insects Affecting Trees in Forest and Urban Environments	2
ENTMLGY 5605	Vector Biology and Vector-Borne Diseases	3
ENTMLGY 5608	Turfgrass Insect and Mite Pests – Identification, Biology, and Management	2
ENTMLGY 5609	Landscape Ornamental Plant Insect and Mite Pests – Identification, Biology, and Management	2

Select a minimum of 11 credit hours (9 credit hours at 3000+ level) of Entomology electives from applied entomology options above and/or the following:

ENTMLGY 2101	Insects and Human Affairs: Pests, Plagues, Poisons, and Politics	3
ENTMLGY 2200	Beekeeping	3
ENTMLGY 3100	Insect Symbioses	3
ENTMLGY 3330 or 4440H	Social Insects or Honors Social Insects	3
ENTMLGY 4998	Undergraduate Research in Entomology	1-3 ^c
ENTMLGY 4999 or 4999H	Research with Distinction or Honors Research with Distinction	1-3 ^c
ENTMLGY 5121	Insect Pathology	3
ENTMLGY 5150	Pollinator Biology and Conservation	2
ENTMLGY 5350.01	Taxonomy and Behavior of Aquatic Invertebrates	3
ENTMLGY 5490	Insect Behavior: Mechanisms and Function	3
ENTMLGY 5500	Biological Control of Arthropod Pests	3
ENTMLGY 5600	Principles and Applications of Integrated Pest Management	3
ENTMLGY 5800	Pesticide Science	3

Select an additional 16-17 hours of major electives (options listed on next page)

Credit Hours:	36
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General Education	34-38
Degree Requirements & Minor Equiv.	21-22
Major Supporting Courses	10
Major	36
Open Electives	15-20
Minimum Total Credit Hours	121



Major Electives

Non-entomology elective course suggestions for students wishing to focus work in one of four tracks: Sustainable Insect Management (1), Insect Ecology and Conservation (2), Insects in Human and Veterinary Medicine (3) and Individualized Insect Studies (4)

Course	Title	Hours	Suggested track
BIOCHEM 4511*	Introduction to Biological Chemistry	4	1,3
CHEM 2310	Introductory Organic Chemistry	4	2,4
CHEM 2510	Organic Chemistry I	4	1,3
CHEM 2520	Organic Chemistry II	4	1,3
CHEM 2540	Organic Chemistry Lab I	2	1,3
CHEM 2550	Organic Chemistry Lab II	2	1,3
ENR 2367	Communicating Environmental and Natural Resources Information	3	1,2,3,4
ENR 3000	Soil Science	3	2,4
ENR 5279	Soil Fertility	3	2,4
HCS 2260	Data Analysis and Interpretation for Decision Making	3	1,2,3,4
HCS 5422**	Biology and Management of Weeds and Invasive Plants	3	2,4
MOLGEN 3436	Introductory Plant Physiology	3	1,3
MOLGEN 4700	Molecular Cell and Developmental Biology	3	1,3
PLNTPH 3001	General Plant Pathology Lecture	3	2,4
PLNTPH 3002	General Plant Pathology Lab	2	2,4
PLNTPH 4597	Contemporary Issues: Pesticides, Genetic Engineering, and the Environment	3	2,4

* Review prerequisites

** Prerequisite of HCS 2201/2204 & 2205, or HCS 2202

Policies and General Requirements for Degree

- A minimum of 121 total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
- A cumulative point-hour ratio of at least 2.00 on all coursework completed at The Ohio State University as well as at least a 2.00 in the major.
- If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a ♦ symbol.
- Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree or consider the CFAES Global Option.
- Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
- Courses required in the major (including major supporting courses and major electives) may **not** be taken pass/non-pass.
- Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
- A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
- Students of CFAES must complete an internship of 1-2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.
- An application for degree must be submitted online at least two semesters prior to the intended graduation term. Application found at: <https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>

Policies and General Requirements for Minors/Minor Equivalent

- The minor/minor equivalent must contain a minimum of 12 credit hours distinct from the major and/or additional minors (i.e., if a minor requires more than 12 credit hours, a student is permitted to overlap those hours beyond 12 with the major or with another minor).
- A 2.00 cumulative point-hour ratio is required in the minor/minor equivalent with a minimum C- grade for any course to be listed in the minor or minor equivalent (includes transfer credit).
- For programs requiring a minor: minors should be declared by the time students complete 60 hours.
- A student is permitted to count up to 6 credit-hours of transfer and/or EM credit in the minor or minor equivalent.
- Coursework graded Pass/Non-Pass cannot count in the minor. No more than 3 credit-hours of course work graded S/U may count toward the minor. Maximum of 3 credit-hours of xx93 are allowed to count in the minor.

**4-Year Course Plan
B.S. in Agriculture
Major: Entomology**

This model plan of study is presented as a suggested path to graduate in four years. It is intended to be a useful guide; however, each student is unique and should review the Degree Requirements for their catalog year and work with their advisor to develop an individualized course plan that best fits their personal academic background and goals.

NOTE: This sheet should not be used in isolation. To graduate in a timely manner, students must consult their academic advisor on a regular basis.

Freshman Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Complete Math requirement -Complete at least one science -Complete GE WIL	FAES 1100	College Survey	.5	CHEM 1220	General Chemistry II	5
	ENTMLGY 1100	Dept Survey	.5	MATH 1151 ^a	Calculus I	5
	GE Math: MATH 1150	Precalculus	5	GE WIL		3
	GE Nat Sci: BIOLOGY 1113	Biological Sciences: Energy Transfer and Development	4	BIOLOGY 1114	Biological Sciences: Form, Function, Diversity, and Ecology	4
	CHEM 1210	General Chemistry I	5			
	GENED 1201	GE Launch Seminar	1			
Hours: 33		Total:	16		Total:	17
Sophomore Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Declare minor -Complete three science courses by the end of this year -Begin to consider an internship location	ENTMLGY 4000	General Entomology	3	GE Theme Choice #1 ^b		3-4
	ENTMLGY 4001	General Entomology Lab	1	Applied Entomology Course	See options	2-3
	GE Hist. & Cultural Studies		3	GE R.E. & G. Diversity		3
	GE Lit, Vis and Perf Arts		3	AGRCOMM 3130	Oral Expression	3
	GE SBS: AEDECON 2001	Prin. of Food & Res. Econ.	3	Entomology Elective		3-4
	Open Elective		2			
Hours: 63		Total:	15		Total:	15
Junior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Apply to graduate -Complete internship by end of the summer -Half of major hours to be completed by the end of the year	Entomology Elective		3	ENTMLGY 4191	Internship	2
	MOLGEN 4500	General Genetics	3	FAES 3191	Internship	0
	GE Citizenship #1 ^b		3-4	Entomology Elective		2-3
	EEOB 3410	Ecology	4	Major Elective		3-4
	Major Elective		2-3	Major Elective		3-4
				GE Citizenship #2 ^b (or Open Elective)		3
Hours: 92		Total:	15		Total:	15
Senior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Meet graduation requirements -Meet with a Career Services Advisor	GE Theme Choice #2 ^b (or Open Elective)		3	Open Elective		3-4
	Major Elective		3-4	ENTMLGY 5604	Capstone: Problem-Based Studies in Plant Health	2
	Major Elective		3-4	Open Elective		3-4
	Entomology Elective		2-3	Major Elective		3-4
	GENED 4001	GE Reflection Seminar	1	Open Elective		3-4
	Open Elective		3			
		Total:	14		Total:	15

Minimum total credit hours for Bachelor of Science Degree: 121

^a One possible course from approved GE list or major requirement that has multiple options, as outlined in corresponding Degree Requirements document.

^b Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ♦ symbol.

4-Year Completion Checklist

Freshman Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
☐ Complete Math requirement	FAES 1100					
	ENTMLGY 1100					
☐ Complete at least one science						
☐ Complete GE WIL						
Hours: _____	Notes:			Notes:		
Sophomore Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
☐ Complete three science courses by the end of this year						
☐ Begin to consider an internship location						
Hours: _____	Notes:			Notes:		
Junior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
☐ Apply to graduate						
☐ Complete internship by end of the summer						
☐ Half of major hours to be completed by the end of the year						
Hours: _____	Notes:			Notes:		
Senior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
☐ Meet graduation requirements						
☐ Meet with a Career Services Advisor						
Hours: _____	Notes:			Notes:		

Total credit hours for Bachelor of Science Degree: 121

Proposed

Bachelor of Science in Agriculture
Major: Entomology

The entomology major couples a strong background in the biological sciences with in-depth study of insect biology and applied entomology. Students learn insect physiology, behavior, ecology and taxonomy, as well as beekeeping, veterinary and public health entomology, sustainable agriculture, and integrated pest management in agricultural, forest and urban environments. Students in this major will complete a minimum of 121 hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Seminar	GENED 1201	1
Writing and Information Literacy	<i>Student Choice</i>	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1150 * (or <i>Student Choice – see below</i>)	5
Literary, Visual and Performing Arts	<i>Student Choice</i>	3
Historical & Cultural Studies	<i>Student Choice</i>	3
Natural Science	Major requirement: BIOLOGY 1113 * (or <i>Student Choice – see below</i>)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or <i>Student Choice – see below</i>)	3
Race, Ethnic and Gender Diversity	<i>Student Choice</i>	3
Theme: Citizenship for a Diverse & Just World ^a	<i>Student Choice</i>	4-6
Theme: Student Choice ^a	<i>Student Choice</i>	4-6
GE Reflection	GENED 4001	1
General Education Credit Hours:		34-38*

* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student chooses an alternative course in this GE category, **they must also complete this course.**

B.S. in Agriculture Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) & ENTMLGY 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	BIOLOGY 1114	4
Internship	FAES 3191 & ENTMLGY 4191	1-2
Minor Equiv. ^b	MATH 1151 Calculus I (5) -or- MATH 1156 Calculus for the Bio. Sci. (5)-or- Statistics(one class from group A one from group B) EEOB 3410 Ecology (4) MOLGEN 4500 General Genetics (3)	12-13
Credit Hours:		21-232

^a Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ♦ symbol.

^b Students in this program complete a group of courses called a minor equivalent. Declaring an additional minor is not required.

^c A limit of 3 credit hours of 4998, 4999, and/or 4999H combined may be applied towards major hours.

Major Supporting Coursework		
Course	Title	Hours
CHEM 1210	General Chemistry I	5
CHEM-4220	<i>General Chemistry-II</i>	6
Credit Hours:		510

Major Coursework		
Course	Title	Hours
ENTMLGY 4000	General Entomology	3
ENTMLGY 4001	General Entomology Laboratory	1
ENTMLGY 5604	Capstone: Problem-Based Studies in Plant Health	2
Select one applied entomology course:		
ENTMLGY 4601	General Insect Pest Management	2
ENTMLGY 4607	Veterinary Entomology	2
ENTMLGY 5110	Ecology and Mgmt. of Pathogens and Insects Affecting Trees in Forest and Urban Environments	3 2
ENTMLGY 5605	Vector Biology and Vector-Borne Diseases	3
ENTMLGY 5608	Turfgrass Insect and Mite Pests – Identification, Biology, and Management	2
ENTMLGY 5609	Landscape Ornamental Plant Insect and Mite Pests – Identification, Biology, and Management	2
Select a minimum of 16201 credit hours (0 credit-hours at 3000+ level) of Entomology electives from additional applied entomology options above and/or the following:		
ENTMLGY 2101	Insects and Human Affairs: Pests, Plagues, Poisons, and Politics	3
ENTMLGY 2200	Beekeeping	3
ENTMLGY 3100	Insect Symbioses	3
ENTMLGY 3330 or 4440H	Social Insects or Honors Social Insects	3
ENTMLGY 3600	<i>Insect life in a changing world ♦</i>	3
ENTMLGY 4193	<i>Individual Studies</i>	1-3 c
ENTMLGY 4998	Undergraduate Research in Entomology	1-3 c
ENTMLGY 4999 or 4999H	Research with Distinction or Honors Research with Distinction	1-3 c
ENTMLGY 5121	Insect Pathology	3
ENTMLGY 5150	Pollinator Biology and Conservation	2
ENTMLGY 5350.01	Taxonomy and Behavior of Aquatic Invertebrates	3
ENTMLGY 5490	Insect Behavior: Mechanisms and Function	3
ENTMLGY 5500	Biological Control of Arthropod Pests	3
ENTMLGY 5610	<i>Greenhouse Plant Health and Pest Management</i>	3
ENTMLGY 5600	Principles and Applications of Integrated Pest Management	3
ENTMLGY 5800	Pesticide Science	3
Select an additional 16-17 hours of major electives (options listed on next page)		
Credit Hour must balance to:		3641

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Degree requirements and course offerings are subject to change. Last updated on: 9/15/23

General Education	34-38
Degree Requirements & Minor Equiv.	21-232
Major Supporting Courses	510
Major	4136
Open Electives	145-20
Minimum Total Credit Hours	121

Statistics Group A
Select one from the following 3 credit courses:
STAT 1450, STAT 1450.01, STAT 1450.02, ANIMSCI 2260, ENR 2000, HCB,
2260, COMLDR 3537

Statistics Group B
Select one from the following 2-3 credit courses:
STAT2510.02 (2), STAT5731 (1) and STAT 5732 (1); EEOB 3494 (3) or other
advanced statistics course which requires a group A class as a
prerequisite

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Major Electives			
<i>Non-entomology Elective course suggestions for students wishing to focus work in one of four tracks: Sustainable Insect Management (1), Insect Ecology and Conservation (2), Insects in Human and Veterinary Medicine (3) and Individualized Insect Studies (4). <u>Maximum of 6 credits can be ENTMLGY courses</u></i>			
Course	Title	Hours	Suggested track
ENTMLGY 3XXX or higher	Various	0-6	
BIOCHEM 4511*	Introduction to Biological Chemistry	4	1,3
CHEM 1220	General Chemistry II	5	3
CHEM 2310	Introductory Organic Chemistry	4	2,4
CHEM 2510	Organic Chemistry I	4	1,3
CHEM 2520	Organic Chemistry II	4	1,3
CHEM 2540	Organic Chemistry Lab I	2	1,3
CHEM 2550	Organic Chemistry Lab II	2	1,3
ENR 2367	Communicating Environmental and Natural Resources Information	3	1,2,3,4
ENR 3000	Soil Science	3	2,4
ENR 5279	Soil Fertility	3	2,4
HCS 2260	Data Analysis and Interpretation for Decision Making	3	1,2,3,4
HCS 5422**	Biology and Management of Weeds and Invasive Plants	3	2,4
MOLGEN 3436	Introductory Plant Physiology	3	1,3
MOLGEN 4700	Molecular Cell and Developmental Biology	3	1,3
PLNTPTH 3001	General Plant Pathology Lecture	3	2,4
PLNTPTH 3002	General Plant Pathology Lab	2	2,4
* Review prerequisites PLNTPTH 4597	Contemporary Issues: Pesticides, Genetic Engineering, and the Environment	3	2,4

Policies and General Requirements for Degree

- A minimum of 121 total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
 - A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
 - A cumulative point-hour ratio of at least 2.00 on all coursework completed at The Ohio State University as well as at least a 2.00 in the major.
 - If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a ♦ symbol.
 - Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree or consider the CFAES Global Option.
 - Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
 - Courses required in the major (including major supporting courses and major electives) may not be taken pass/non-pass.
 - Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
 - A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
 - Students of CFAES must complete an internship of 1-2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
 - A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
 - Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.
 - **An application for degree must be submitted online at least two semesters prior to the intended graduation term. Application found at: <https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>**
- #### Policies and General Requirements for Minors/Minor Equivalent
- The minor/minor equivalent must contain a minimum of 12 credit hours distinct from the major and/or additional minors (i.e., if a minor requires more than 12 credit hours, a student is permitted to overlap those hours beyond 12 with the major or with another minor).
 - A 2.00 cumulative point-hour ratio is required in the minor/minor equivalent with a minimum C- grade for any course to be listed in the minor or minor equivalent (includes transfer credit).
 - For programs requiring a minor: minors should be declared by the time students complete 60 hours.
 - A student is permitted to count up to 6 credit-hours of transfer and/or EM credit in the minor or minor equivalent.
 - Coursework graded Pass/Non-Pass cannot count in the minor. No more than 3 credit-hours of course work graded S/U may count toward the minor. Maximum of 3 credit-hours of xx93 are allowed to count in the minor.

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**4-Year Course Plan
B.S. in Agriculture
Major: Entomology**

This model plan of study is presented as a suggested path to graduate in four years. It is intended to be a useful guide; however, each student is unique and should review the Degree Requirements for their catalog year and work with their advisor to develop an individualized course plan that best fits their personal academic background and goals.

NOTE: This sheet should not be used in isolation. To graduate in a timely manner, students must consult their academic advisor on a regular basis.

Freshman Year						
	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Complete Math requirement -Complete at least one science -Complete GE WIL Hours: 33	FAES 1100	College Survey	.5	GHEM 4220 ENTMLGY 2101 or 2200	General Chemistry-II Pest and Plagues or Beekeeping	6 2-3
	ENTMLGY 1100	Dept Survey	.5	MATH 1151 ^a or Group A statistics ^a	Calculus I	3-5
	GE Math: MATH 1150	Precalculus	5	GE WIL		3
	GE Nat Sci: BIOLOGY 1113	Biological Sciences: Energy Transfer and Development	4	BIOLOGY 1114	Biological Sciences: Form, Function, Diversity, and Ecology	4
	CHEM 1210	General Chemistry I	5	If Group A statistics chosen, elective: AGRCOMM 3130		3
	GENED 1201	GE Launch Seminar	1			
		Total:	16		Total:	14- 16 ²
Sophomore Year						
	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Declare minor -Complete three science courses by the end of this year -Begin to consider an internship location Hours: 63	ENTMLGY 4000	General Entomology	3	GE Theme Choice #1 ^b		3-4
	ENTMLGY 4001	General Entomology Lab	1	Applied Entomology Course	See options	2-3
	GE Hist. & Cultural Studies		3	GE R.E. & G. Diversity		3
	GE Lit, Vis and Perf Arts		3	AGRCOMM 3130 or Statistics, Group B course	Oral Expression	2-3
	GE SBS: AEDECON 2001	Prin. of Food & Res. Econ.	3	Entomology Elective		3-4
	Open Elective		2			
		Total:	15		Total:	14-15
Junior Year						
	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Apply to graduate -Complete internship by end of the summer -Half of major hours to be completed by the end of the year Hours: 92	Entomology Elective		3	ENTMLGY 4191	Internship	2
	MOLGEN 4500	General Genetics	3	FAES 3191	Internship	0
	GE Citizenship #1 ^b		3-4	Entomology Elective		2-3
	EEOB 3410	Ecology	4	Major Elective		3-4
	Major Elective		2-3	Major Elective		3-4
				GE Citizenship #2 ^b (or Open Elective)		3
		Total:	15		Total:	15
Senior Year						
	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Meet graduation requirements -Meet with a Career Services Advisor Hours: 92	GE Theme Choice #2 ^b (or Open Elective)		3	Open Elective		3-4
	Major Elective		3-4	ENTMLGY 5604	Capstone: Problem-Based Studies in Plant Health	2
	Major Elective		3-4	Open Elective		3-4
	Entomology Elective		2-3	Major Elective		3-4
	GENED 4001	GE Reflection Seminar	1	Open Elective		3-4
	Open Elective		3			
		Total:	14		Total:	15
Minimum total credit hours for Bachelor of Science Degree:						121

^a One possible course from approved GE list or major requirement that has multiple options, as outlined in corresponding Degree Requirements document.

^b Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ♦ symbol.

4-Year Completion Checklist

Freshman Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
☐ Complete Math requirement	FAES 1100					
	ENTMLGY 1100					
☐ Complete at least one science						
☐ Complete GE WIL						
Hours: _____	Notes:			Notes:		
Sophomore Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
☐ Complete three science courses by the end of this year						
☐ Begin to consider an internship location						
Hours: _____	Notes:			Notes:		
Junior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
☐ Apply to graduate						
☐ Complete internship by end of the summer						
☐ Half of major hours to be completed by the end of the year						
Hours: _____	Notes:			Notes:		
Senior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
☐ Meet graduation requirements						
☐ Meet with a Career Services Advisor						
Hours: _____	Notes:			Notes:		
Total credit hours for Bachelor of Science Degree:						121

Bachelor of Science in Agriculture

Major: Entomology

The entomology major couples a strong background in the biological sciences with in-depth study of insect biology and applied entomology. Students learn insect physiology, behavior, ecology and taxonomy, as well as beekeeping, veterinary and public health entomology, sustainable agriculture, and integrated pest management in agricultural, forest and urban environments. Students in this major will complete a minimum of 121 hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Seminar	GENED 1201	1
Writing and Information Literacy	<i>Student Choice</i>	3
Mathematical & Quantitative Reasoning/Data Analysis	Major requirement: MATH 1150 * (or <i>Student Choice – see below</i>)	5
Literary, Visual and Performing Arts	<i>Student Choice</i>	3
Historical & Cultural Studies	<i>Student Choice</i>	3
Natural Science	Major requirement: BIOLOGY 1113 * (or <i>Student Choice – see below</i>)	4
Social & Behavioral Sciences	Major requirement: AEDECON 2001 or ECON 2001.01 * (or <i>Student Choice – see below</i>)	3
Race, Ethnic and Gender Diversity	<i>Student Choice</i>	3
Theme: Citizenship for a Diverse & Just World^a	<i>Student Choice</i>	4-6
Theme: Student Choice^a	<i>Student Choice</i>	4-6
GE Reflection	GENED 4001	1
General Education Credit Hours:		34-38*

* Indicates a pre/corequisite course for this major that also satisfies this GE category. If a student chooses an alternative course in this GE category, **they must also complete this course.**

B.S. in Agriculture Degree Requirements		
Requirement	Course Options	Hours
College & Department Survey	FAES 1100 (0.5) & ENTMLGY 1100 (0.5)	1
Oral Expression	AGRCOMM 3130 or COMM 2110	3
Additional Science	BIOLOGY 1114	4
Internship	FAES 3191 & ENTMLGY 4191	1-2
Minor Equiv. ^b	MATH 1151 Calculus I (5) -or- MATH 1156 Calculus for the Bio. Sci. (5)-or- Statistics (one class from group A one from group B) EEOB 3410 Ecology (4) MOLGEN 4500 General Genetics (3)	12-13
Credit Hours:		21-23

^a Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ✦ symbol.

^b Students in this program complete a group of courses called a minor equivalent. Declaring an additional minor is not required.

^c A limit of 3 credit hours of 4998, 4999, and/or 4999H combined may be applied towards major hours.

Major Supporting Coursework		
Course	Title	Hours
CHEM 1210	General Chemistry I	5
Credit Hours:		5

Major Coursework		
Course	Title	Hours
ENTMLGY 4000	General Entomology	3
ENTMLGY 4001	General Entomology Laboratory	1
ENTMLGY 5604	Capstone: Problem-Based Studies in Plant Health	2
Select one applied entomology course:		
ENTMLGY 4601	General Insect Pest Management	2
ENTMLGY 4607	Veterinary Entomology	2
ENTMLGY 5110	Ecology and Mgmt. of Pathogens and Insects Affecting Trees in Forest and Urban Environments	3
ENTMLGY 5605	Vector Biology and Vector-Borne Diseases	3
ENTMLGY 5608	Turfgrass Insect and Mite Pests – Identification, Biology, and Management	2
ENTMLGY 5609	Landscape Ornamental Plant Insect and Mite Pests – Identification, Biology, and Management	2

Select a minimum of 16 credit hours of Entomology electives from additional applied entomology options above and/or the following:

ENTMLGY 2101	Insects and Human Affairs: Pests, Plagues, Poisons, and Politics	3
ENTMLGY 2200	Beekeeping	3
ENTMLGY 3100	Insect Symbioses	3
ENTMLGY 3330 or 4440H	Social Insects or Honors Social Insects	3
ENTMLGY 3600	Insect life in a changing world [✦]	3
ENTMLGY 4193	Individual Studies	1-3 ^c
ENTMLGY 4998	Undergraduate Research in Entomology	1-3 ^c
ENTMLGY 4999 or 4999H	Research with Distinction or Honors Research with Distinction	1-3 ^c
ENTMLGY 5121	Insect Pathology	3
ENTMLGY 5150	Pollinator Biology and Conservation	2
ENTMLGY 5350.01	Taxonomy and Behavior of Aquatic Invertebrates	3
ENTMLGY 5490	Insect Behavior: Mechanisms and Function	3
ENTMLGY 5500	Biological Control of Arthropod Pests	3
ENTMLGY 5610	Greenhouse Plant Health and Pest Management	3
ENTMLGY 5600	Principles and Applications of Integrated Pest Management	3
ENTMLGY 5800	Pesticide Science	3

The balance of the credit hours (16 to 17 credits) are to be selected from the list of the additional major electives options listed on the next page

Credit Hours:		41
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General Education	34-38
Degree Requirements & Minor Equiv.	21-23
Major Supporting Courses	5
Major	41
Open Electives	14-20
Minimum Total Credit Hours	121

Major Electives			
<i>Elective course suggestions for students wishing to focus work in one of four tracks: Sustainable Insect Management (1), Insect Ecology and Conservation (2), Insects in Human and Veterinary Medicine (3) and Individualized Insect Studies (4). Maximum of 6 credits can be ENTMLGY courses</i>			
Course	Title	Hours	Suggested track
ENTMLGY 3XXX or higher	Various	0-6	
BIOCHEM 4511*	Introduction to Biological Chemistry	4	1,3
CHEM 1220	General Chemistry II	5	3
CHEM 2310	Introductory Organic Chemistry	4	2,4
CHEM 2510	Organic Chemistry I	4	1,3
CHEM 2520	Organic Chemistry II	4	1,3
CHEM 2540	Organic Chemistry Lab I	2	1,3
CHEM 2550	Organic Chemistry Lab II	2	1,3
ENR 2367	Communicating Environmental and Natural Resources Information	3	1,2,3,4
ENR 3000	Soil Science	3	2,4
ENR 5279	Soil Fertility	3	2,4
HCS 2260	Data Analysis and Interpretation for Decision Making	3	1,2,3,4
HCS 5422**	Biology and Management of Weeds and Invasive Plants	3	2,4
MOLGEN 3436	Introductory Plant Physiology	3	1,3
MOLGEN 4700	Molecular Cell and Developmental Biology	3	1,3
PLNTPH 3001	General Plant Pathology Lecture	3	2,4
PLNTPH 3002	General Plant Pathology Lab	2	2,4
PLNTPH 4597	Contemporary Issues: Pesticides, Genetic Engineering, and the Environment	3	2,4

* Review prerequisites

** Prerequisite of HCS 2201/2204 & 2205, or HCS 2202

Policies and General Requirements for Degree

- A minimum of 121 total credit hours. Remedial coursework (English 1109; EDUTL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1010; Mathematics 1040, 1050, 1073, 1074, 1075) do not count toward the 121-hour minimum requirement for the BS degree.
- A minimum of 30 semester hours of credit earned through regular course enrollment at this University, and regular course enrollment in the last semester in the College of Food, Agricultural, and Environmental Sciences.
- A cumulative point-hour ratio of at least 2.00 on all coursework completed at The Ohio State University as well as at least a 2.00 in the major.
- If a major-required course or major elective is a GE Theme course, two 3-4 cr courses (no more than one per theme area) is permitted to double count in the GE and major hours. GE Theme courses are indicated with a ♦ symbol.
- Students are encouraged to participate in education abroad opportunities. Consult with your advisor for how education abroad credit applies to your degree or consider the CFAES Global Option.
- Students must complete a minimum of 40 hours in major/major supporting coursework with at least 12 hours taken from the academic unit(s) offering the major at OSU in the baccalaureate program.
- Courses required in the major (including major supporting courses and major electives) may **not** be taken pass/non-pass.
- Coursework taken as open electives may include a maximum of 4 credit hours of physical activity courses (all 1139-1197 courses), and a maximum of 4 credit hours of campus music organizations.
- A college maximum of six hours of individual studies courses (x193) can be applied toward graduation; some majors may have a lower maximum.
- Students of CFAES must complete an internship of 1-2 hours as a requirement for degree. Any additional internship credit hours may count towards major hours (consult with your advisor). A college maximum of six hours of internship credit can be applied toward graduation; some majors may have a lower maximum.
- A maximum of three credits of 3488 can be applied toward graduation although some majors may have a lower maximum. A cumulative point-hour ratio of 2.0 is required to register for 3488 credit.
- Credit hours for 4999 ("with Research Distinction") and 4999H ("with Honors Research Distinction") are repeatable to maximum of six hours.
- An application for degree must be submitted online at least two semesters prior to the intended graduation term. Application found at: <https://students.cfaes.ohio-state.edu/academics/undergraduate/graduation>

Policies and General Requirements for Minors/Minor Equivalent

- The minor/minor equivalent must contain a minimum of 12 credit hours distinct from the major and/or additional minors (i.e., if a minor requires more than 12 credit hours, a student is permitted to overlap those hours beyond 12 with the major or with another minor).
- A 2.00 cumulative point-hour ratio is required in the minor/minor equivalent with a minimum C- grade for any course to be listed in the minor or minor equivalent (includes transfer credit).
- For programs requiring a minor: minors should be declared by the time students complete 60 hours.
- A student is permitted to count up to 6 credit-hours of transfer and/or EM credit in the minor or minor equivalent.
- Coursework graded Pass/Non-Pass cannot count in the minor. No more than 3 credit-hours of course work graded S/U may count toward the minor. Maximum of 3 credit-hours of xx93 are allowed to count in the minor.

Statistics Group A
Select one from the following 3 credit courses:
STAT 1450, STAT 1450.01, STAT 1450.02, ANIMSCI 2260, ENR 2000, HCB 2260, COMLDR 3537

Statistics Group B
Select one from the following 2-3 credit courses:
STAT2510.02 (2), STAT5731 (1) and STAT 5732 (1); EEOB 3494 (3) or other advanced statistics course which requires a group A class as a prerequisite

**4-Year Course Plan
B.S. in Agriculture
Major: Entomology**

This model plan of study is presented as a suggested path to graduate in four years. It is intended to be a useful guide; however, each student is unique and should review the Degree Requirements for their catalog year and work with their advisor to develop an individualized course plan that best fits their personal academic background and goals.

NOTE: This sheet should not be used in isolation. To graduate in a timely manner, students must consult their academic advisor on a regular basis.

Freshman Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Complete Math requirement -Complete at least one science -Complete GE WIL Hours: 33	FAES 1100	College Survey	.5	ENTMLGY 2101 or 2200	Pest and Plagues or Beekeeping	2-3
	ENTMLGY 1100	Dept Survey	.5	MATH 1151 ^a or Group A statistics	Calculus I	3-5
	GE Math: MATH 1150	Precalculus	5	GE WIL		3
	GE Nat Sci: BIOLOGY 1113	Biological Sciences: Energy Transfer and Development	4	BIOLOGY 1114	Biological Sciences: Form, Function, Diversity, and Ecology	4
	CHEM 1210	General Chemistry I	5	If Group A statistics chosen, elective; AGRCOMM 3130		3
	GENED 1201	GE Launch Seminar	1			
	Total:		16	Total:		14-16
Sophomore Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Declare minor -Complete three science courses by the end of this year -Begin to consider an internship location Hours: 63	ENTMLGY 4000	General Entomology	3	GE Theme Choice #1 ^b		3-4
	ENTMLGY 4001	General Entomology Lab	1	Applied Entomology Course	See options	2-3
	GE Hist. & Cultural Studies		3	GE R.E. & G. Diversity		3
	GE Lit, Vis and Perf Arts		3	AGRCOMM 3130 or Statistics Group B course	Oral Expression	2-3
	GE SBS: AEDECON 2001	Prin. of Food & Res. Econ.	3	Entomology Elective		3-4
	Open Elective		2			
	Total:		15	Total:		14-15
Junior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Apply to graduate -Complete internship by end of the summer -Half of major hours to be completed by the end of the year Hours: 92	Entomology Elective		3	ENTMLGY 4191	Internship	2
	MOLGEN 4500	General Genetics	3	FAES 3191	Internship	0
	GE Citizenship #1 ^b		3-4	Entomology Elective		2-3
	EEOB 3410	Ecology	4	Major Elective		3-4
	Major Elective		2-3	Major Elective		3-4
				GE Citizenship #2 ^b (or Open Elective)		3
	Total:		15	Total:		15
Senior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement	Course Name	Hours	Course/Requirement	Course Name	Hours
-Meet graduation requirements -Meet with a Career Services Advisor Hours: 92	GE Theme Choice #2 ^b (or Open Elective)		3	Open Elective		3-4
	Major Elective		3-4	ENTMLGY 5604	Capstone: Problem-Based Studies in Plant Health	2
	Major Elective		3-4	Open Elective		3-4
	Entomology Elective		2-3	Major Elective		3-4
	GENED 4001	GE Reflection Seminar	1	Open Elective		3-4
	Open Elective		3			
	Total:		14	Total:		15

Minimum total credit hours for Bachelor of Science Degree: 121

^a One possible course from approved GE list or major requirement that has multiple options, as outlined in corresponding Degree Requirements document.

^b Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student's choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a ♦ symbol.

4-Year Completion Checklist

Freshman Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
☐ Complete Math requirement	FAES 1100					
	ENTMLGY 1100					
☐ Complete at least one science						
☐ Complete GE WIL						
Hours: _____	Notes:			Notes:		
Sophomore Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
☐ Complete three science courses by the end of this year						
☐ Begin to consider an internship location						
Hours: _____	Notes:			Notes:		
Junior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
☐ Apply to graduate						
☐ Complete internship by end of the summer						
☐ Half of major hours to be completed by the end of the year						
Hours: _____	Notes:			Notes:		
Senior Year	Autumn Semester			Spring Semester		
Benchmarks	Course/Requirement		✓	Course/Requirement		✓
☐ Meet graduation requirements						
☐ Meet with a Career Services Advisor						
Hours: _____	Notes:			Notes:		
Total credit hours for Bachelor of Science Degree:						121
