

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:

Columbus Students: Dr. Joe Raczkowski, raczkowski.2@osu.edu

ATI students: Dr. Ellen Klinger, klinger.80@osu.edu

Insects in Human and Veterinary Medicine

| <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> |
|--|----------------|----------------------------|
|--|----------------|----------------------------|

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 Insects in Human and Veterinary Medicine

| | | | |
|---------------|--|-------|------------|
| ENTMLGY 2101 | Insects in Human Affairs | 3 | AU, SP |
| ENTMLGY 4601 | General Insect Pest Management | 2 | AU |
| ENTMLGY 4607 | Veterinary Entomology | 2 | AU, SP |
| ENTMLGY 4999 | Research with Distinction | 1 – 6 | AU, SP, SU |
| ENTMGLY 4999H | Honors Research with Distinction | 1 – 6 | AU, SP, SU |
| ENTMLGY 5500 | Biological Control of Arthropod Pests | 3 | SP |
| ENTMLGY 5605 | Vector Biology and Vector Borne Diseases | 3 | AU |
| ENTMLGY 5800 | Pesticide Science | 3 | SP |

Suggested NON-ENTMLGY Electives for Insect in Human and Vet Ent **Credits** **Semester(s) Offered****Suggested AEDECON Electives for Insects in Human and Vet Ent**

| | | | |
|--------------|-----------|---|----|
| AEDECON 2001 | Economics | 3 | SP |
|--------------|-----------|---|----|

Suggested AGRCOMM Elective for Insects in Human and Vet Ent

| | | | |
|--------------|-----------------|---|----|
| AGRCOMM 3130 | Oral Expression | 3 | SP |
|--------------|-----------------|---|----|

Suggested BIOCHEM Elective for Insects in Human and Vet Ent

| | | | |
|--------------|--------------------------------------|---|--------|
| BIOCHEM 4511 | Introduction to Biological Chemistry | 4 | AU, SP |
|--------------|--------------------------------------|---|--------|

Suggested CHEM Electives for Insects in Human and Vet Ent

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|-----------|--------------------------|---|--------|
| 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 Insects in Human and Veterinary Entomology

| | | | |
|-----------|----------------|---|----|
| ECON 2001 | Microeconomics | 3 | SP |
|-----------|----------------|---|----|

Suggested ENR Elective for Insects in Human and Veterinary Entomology

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|----------|----------------|---|--------|
| ENR 2367 | Communications | 3 | AU, SP |
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Suggested HCS Elective for Insects in Human and Veterinary Entomology

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|----------|---------------|---|----|
| HCS 2260 | Data Analysis | 3 | SP |
|----------|---------------|---|----|

Suggested MOLGEN Electives for Insects in Human and Veterinary Entomology

| | | | |
|-------------|--|---|----|
| 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 Insects in Human and Veterinary Medicine**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 | |
|--|----|--------------------------------|----|
| ENTMLGY 4000 (General Entomology Lecture) | 3 | HCS 2260 (Data Analysis) | 3 |
| ENTMLGY 4001 (General Entomology Lab) | 1 | | |
| 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(s) | 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) | 2 |
| | | | Cultures & Ideas gen. ed. Course | 3 |
| | | | Other Electives | 3 |
| | | | ENTMLGY Elective(s) | 1 |
| Total 1 | Total | 13 | Total | 13 |