Insect Biology
Entomology Department / College of Agriculture

COA-ENTM-BS / Major: IBIO 201710
120 Credits for graduation

Name: ___________________________ PUID: ___________________________ Date: ___________________________

Required Major Courses (18 credits)

- (2) ENTM 20600 General Entomology
- (1) ENTM 20700 General Entomology Laboratory
- (3) ENTM 21000 Insect Behavior
- (4) ENTM 33500 Introduction to Insect Identification
- (3) ENTM 31100 Insect Ecology
- (1) ENTM 49200 Capstone Experience Entomology I
- (1) ENTM 49300 Capstone Experience in Entomology II
- (3) ENTM 55100 Insect Biochemistry & Physiology

Major Selectives (6 credits) (See Advising Resources)

- (3) ENTM Selective
- (3) ENTM Selective

Other Departmental/Program Course Requirements (82 credits) (See Advising Resources)

- (0.5) AGR 10100 Introduction to the College of Agriculture and Purdue University
- (0.5) AGR 11700 Introduction to Entomology Programs
- (3) AGRY 32000 Genetics
- (1) AGRY 32100 Genetics Laboratory
- (3) BCHM 30700 Biochemistry
- (1) BCHM 30900 Biochemistry Lab
- (3) CHM 11100 General Chemistry (satisfies Science #1 for core)
- (3) CHM 11200 General Chemistry (satisfies Science #2 for core)
- (4) CHM 25700 Organic Chemistry
- (3) FNR 10300 Introduction to Environmental Conservation or NRES 29000 Introduction to Environmental Science (satisfied STS for core)
- (3) PHYS 21400 The Nature of Physics
- (3) STAT 30100 Elementary Statistical Methods (satisfies Information Literacy for core)
- (4) Biological Science Selective
- (4) Biological Science Selective
- (3) Calculus Selective (satisfies Quantitative Reasoning for core)
- (3) Philosophy, Logic or Critical Thinking Selective
- (3) Insect Pest Management Selective
- (12) Interdisciplinary Science Selectives
- (3) Economics Selective (satisfies Human Culture Behavioral/Social Science for core)
- (3) UCC Humanities Selective (satisfies Human Cultures Humanities for core)
- (3) Humanities or Social Science Selective
- (3) Humanities or Social Science Selective
- (3) Humanities or Social Science Selective (30000+ level)
- (4) ENGL 10600 First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy Selective for core)
- (3) COM 11400 Fundamentals of Speech Communication (satisfies Oral Communication for core)
  Or COM 21700 Science Writing and Presentation
- (3) Written or Oral Communications Selective

Electives (14 credits)

- (14) Elective

University Core Requirements (http://www.purdue.edu/provost/initiatives/curriculum/course.html)

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science Selective
- Science Selective

Science, Technology & Society Selective
Written Communication
Oral Communication
Quantitative Reasoning

College of Agriculture & University Level Requirements (https://ag.purdue.edu/oap/Pages/core_requirements.aspx)

- 3 credits Multicultural Awareness
- 9 credits International Understanding
- 9 credits of Hum. And/or Social Sciences outside the College of Agriculture
- 3 credits of Hum. And/or Social Science at 30000 or higher

9/21/2016 (effective Fall 2016)
### Insect Biology

#### Suggested Arrangement of Courses:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fall 1st Year</th>
<th>Prerequisite</th>
<th>Spring 1st Year</th>
<th>Prerequisite</th>
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<td>AGR 10100 Introduction to the College of Agriculture and Purdue University</td>
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<td>CHM 11200 General Chemistry</td>
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<td>AGR 11700 Introduction to Entomology Programs</td>
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<td>ENTM 21000 Insect Behavior</td>
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<td>3</td>
<td>COM 11400 Fundamentals of Speech or COM 21700 Science Writing and Presentation</td>
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<td>Calculus Selective <strong>cc</strong></td>
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<tr>
<th>Credits</th>
<th>Fall 2nd Year</th>
<th>Prerequisite</th>
<th>Spring 2nd Year</th>
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<tr>
<td>4</td>
<td>ENTM 33500 Introduction to Insect Identification</td>
<td>ENTM 20700</td>
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<td>CHM 25700 Organic Chemistry</td>
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<td>ENTM 31100 Insect Ecology</td>
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<td>PHYS 21400 The Nature of Physics</td>
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<td>UCC Humanities Selective</td>
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<td>3</td>
<td>FNRS 10500 Introduction to Environmental Conservation or NRES 29000 Introduction to Environmental Science</td>
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<td>ENTM 55100 Insect Biochemistry &amp; Physiology</td>
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<td>STAT 30100 Elementary Statistical Methods</td>
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<td>Humanities or Social Science Selective</td>
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<tr>
<th>Credits</th>
<th>Fall 4th Year</th>
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<th>Spring 4th Year</th>
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<td>Entomology Selective</td>
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<td>ENTM 49300 Capstone Experience in Entomology II</td>
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<td>Interdisciplinary Science Selective</td>
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<td>3</td>
<td>Written or Oral Communication Selective</td>
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<td>Philosophy, Logic or Critical Thinking Selective</td>
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<td>Electives</td>
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1) 120 credits listed above are required for Bachelor of Science degree.
2) 2.0 Graduation GPA required for Bachelor of Science degree.
3) 32 credits of upper division courses (30000 level or higher) must be taken at Purdue University, West Lafayette.
4) ANY COURSE TAKEN AT PURDUE CAN BE ATTEMPTED NO MORE THAN THREE TIMES (INCLUSIVE OF W, WF, I AND IF).
5) **cc** is considered a critical course

See next page for all supplemental Information

The student is ultimately responsible for knowing and completing all degree requirements.

myPurdue Plan is knowledge source for specific requirements and completion

9/21/2016 (effective Fall 2016)
# IBIO Supplemental Information

All prerequisites must be met

1. **University Core Curriculum Humanities Selective (3 credits)**
   See approved Humanities list at: [http://www.purdue.edu/provost/initiatives/curriculum/course.html](http://www.purdue.edu/provost/initiatives/curriculum/course.html)

2. **Humanities and Social Science Selective (9 credits)**
   See approved list at: [https://ag.purdue.edu/oap/pages/core-social_humanities.aspx](https://ag.purdue.edu/oap/pages/core-social_humanities.aspx)

3. **Economics Selective (3 credits)**
   - AGEC 20300 Introductory Microeconomics for Food and Agribusiness
   - AGEC 20400 Introduction to Resource Economics and Environmental Policy
   - ECON 21000 Principles of Economics
   - ECON 25100 Microeconomics
   - ECON 25200 Macroeconomics

4. **Written or Oral Communication Selective (minimum 6 credits)**
   - AGR 20100 Communication Across Culture
   - ASL 10000-59900
   - COM 20000-59900
   - ENGL 20000-59900
   - YDAE 44000 Methods of Teaching Agriculture Education

5. **Biological Science (8 credits)**
   - BIOL 11000 Fundamentals of Biology I
   - BIOL 11000 Fundamentals of Biology I
   - BIOL 12100 Biology I: Ecology, Diversity, & Behavior
   - BIOL 13100 Biology II: Dev, Structure & Function of Organisms
   - BIOL 13500 First year Biology lab
   - BIOL 13600 Quantitative and Problem Solving Skills
   - BIOL 13700 Handling Cells and Tissues, Microscopy
   - BIOL 13800 Information and Communication Skills
   - BIOL 13900 Human Anatomy and Physiology
   - BIOL 20300 Human Anatomy and Physiology
   - BIOL 20400 Human Anatomy and Physiology
   - BIOL 21000 Introduction to Microbiology
   - BIOL 21000 Introduction to Microbiology
   - BIOL 21000 Introduction to Microbiology
   - BIOL 21000 Introduction to Microbiology
   - BIOL 23000 Biology of the Living Cell
   - BIOL 23000 Biology of the Living Cell
   - BIOL 23000 Biology of the Living Cell
   - BIOL 23000 Biology of the Living Cell
   - BIOL 23100 Biology III: Cell Structure and Function
   - BIOL 23100 Biology III: Cell Structure and Function
   - BIOL 23200 Laboratory in Biology III: Cell Structure and Function
   - BIOL 24100 Biology IV: Genetics and Molecular Biology
   - BIOL 24200 Laboratory on Biology IV: Genetics and Molecular Biology
   - BIOL 29500 Quantitative Biology of the Living Cell
   - BTNY 11000 Intro to Plant Science
   - HORT 30100 Plant Physiology

6. **Calculus Selective (3 credits)**
   - MA 16010 Applied Calculus I
   - MA 16020 Applied Calculus II
   - MA 16100 Plane Analytic Geometry and Calculus I
   - MA 16500 Analytic Geometry and Calculus I

7. **Insect Pest Management Selective (3 credits)**
   - ENTM 44100 Forest Entomology
   - ENTM 44300 Arthropods and Diseases of Turfgrass
   - ENTM 44500 Integrated Plant Health & Management of Horticultural Plants)
   - ENTM 51000 (Insect Pest Management)
   - ENTM 52100 Urban and Industrial Insect Management
   - ENTM 52500 Medical and Veterinary Entomology

8. **Entomology Selective (6 credits)**
   - ENTM 10500 (Insect Friend and Foe)
   - ENTM 35100 (Bee Biology and Bee Keeping)
   - ENTM 44100 (Forest Entomology)
   - ENTM 44300 (Arthropods and Diseases of Turfgrass)
   - ENTM 44600 (Integrated Plant Health & Management of Horticultural Plants)
   - ENTM 46000 (Aquatic Entomology)
   - ENTM 50600 (Advanced Insect Taxonomy)
   - ENTM 52100 (Urban and Industrial Insect Management)
   - ENTM 52500 (Medical and Veterinary Entomology)

9. **Philosophy, Logic or Critical Thinking Selective (3 credits)**
   - PHIL 10000-46500

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Interdisciplinary Science Selective (12 credits)

AGEC 35200 Quantitative Techniques for Firm Decision Making
AGEC 45100 Applied Econometrics
AGRY 25500 Crop Production
AGRY 25500 Soil Science
AGRY 27000 Forest Soils
AGRY 30500 Seed Analysis and Grain Grading
AGRY 30600 Seed Technology
AGRY 33500 Weather and Climate
AGRY 33600 General Meteorology
AGRY 33700 Environmental Hydrology
AGRY 34900 Soil Ecology
AGRY 35500 Soil Morphology and Geography
AGRY 36500 Soil Fertility
AGRY 37500 Crop Production Systems
AGRY 38500 Environmental Soil Chemistry
AGRY 45000 Soil Conservation and Water Management
AGRY 46500 Soil Physical Properties
AGRY 50500 Forage Management
AGRY 51500 Plant Mineral Nutrition
AGRY 52500 Crop Physiology and Ecology
AGRY 54000 Soil Chemistry
AGRY 54400 Environmental Organic Chemistry
AGRY 54500 Remote Sensing of Land Resources
AGRY 55500 Soil and Plant Analysis
AGRY 56000 Soil Physics
AGRY 56500 Soil Classification, Genesis, and Survey
AGRY 58000 Soil Microbiology
AGRY 58500 Soils and Land Use
АНСС 20100 Functional Anatomy and Animal Performance
АНСС 22100 Principles of Animal Nutrition
АНСС 23000 Physiology of Domestic Animals
АНСС 30100 Animal Growth, Development, and Evaluation
АНСС 31100 Animal Breeding
АНСС 35100 Meat Science
АНСС 35101 Meat Science Laboratory
АНСС 51100 Population Genetics
АНСС 51400 Animal Biotechnology
АСМ 10400 Introduction to Agricultural Systems
АСМ 10500 Agricultural Systems Computations and Communication
АСМ 20100 Construction and Maintenance
АСМ 21100 Technical Graphic Communication
АСМ 21500 Surveying
АСМ 22200 Crop Production Equipment
АСМ 24500 Materials Handling and Processing
АСМ 32200 Technology of Precision Agriculture
АСМ 33300 Facilities Planning and Management
АСМ 33600 Environmental Systems
Management
АСМ 34500 Power Units and Power Trains

АСМ 42000 Electric Power and Controls
АСМ 51000 Agrosecurity-Emergency Management for Agricultural Production Operations
АСМ 53000 Power and Machinery Management
АСМ 54000 Geographic Information System Application
АСМ 55000 Grain Drying and Storage
БЧМ 22100 Analytical Biochemistry
БЧМ 32200 Analytical Biochemistry
БЧМ 36100 Molecules
БЧМ 46200 Metabolism
БЧМ 46300 Macromolecular Machines
БЧМ 46500 Biochemistry of Life Processes
БИОЛ 22100 Introduction to Microbiology
БИОЛ 23100 Biology III: Cell Structure and Function
БИОЛ 23200 Laboratory in Biology III: Cell Structure and Function
БИОЛ 24100 Biology IV: Genetics and Molecular Biology
БИОЛ 24200 Laboratory in Biology IV: Genetics and Molecular Biology
БИОЛ 28000 Genetics and Molecular Biology
БИОЛ 28100 Laboratory in Genetics and Molecular Biology
БИОЛ 28600 Introduction to Ecology and Evolution
БИОЛ 28700 Organisms and Populations
БТНЬ 20100 Plants and Civilization
БТНЬ 20400 Crop and Weed Identification
БТНЬ 20500 The Spring Flora of Indiana
БТНЬ 20900 Plant Diversity
БТНЬ 21100 Plants and the Environment
БТНЬ 30100 Introductory Plant Pathology
БТНЬ 30200 Plant Ecology
БТНЬ 30400 Introductory Weed Science
БТНЬ 30500 Fundamentals of Plant Classification
БТНЬ 31600 Plant Anatomy
БТНЬ 35000 Biotechnology in Agriculture
БТНЬ 42000 Plant Cellular and Molecular Biology
БТНЬ 49800 Research in Plant Science
БТНЬ 50400 Advanced Weed Science
БТНЬ 50500 Advanced Biology of Weeds
БТНЬ 52500 Intermediate Plant Pathology
БТНЬ 53500 Plant Disease Management
БТНЬ 55000 Biology of Fungi
БТНЬ 55300 Plant Growth and Development
БТНЬ 55500 Aquatic Botany
БТНЬ 55600 Aquatic Plant Management
ЧМ 22400 Introductory Quantitative Analysis
ЧМ 25501 Organic Chemistry Laboratory

ЧМ 25600 Organic Chemistry
ЧМ 25601 Organic Chemistry Laboratory
ЧМ 25701 Organic Chemistry Laboratory
СИ 15600 C Programming
СИ 18000 Programming I
ЭАС 11100 Physical Geology
ЭАС 11200 Earth Through Time
ЭАС 22100 Survey of Atmospheric Science
ФИР 10300-59700 Multiple Titles
ФИР 31500 Fundamentals of Nutrition
ФИР 16100 Science of Food
ФИР 24500 Food Packaging
ФИР 34000-36900 Multiple Titles
ФИР 43100-46900 Multiple Titles
ФИР 50000-59900 Multiple Titles
ЕСИ 20100 Principles of Public Health Science
ЕСИ 20200 Essential of Environmental, Occupational and Radiological Health Sciences
ЕСИ 33300-34800 Multiple Titles
ЕСИ 45700 Clinical Parasitology
ЕСИ 56000 Toxicology
HORT 10100 Fundamentals of Horticulture
HORT 20100 Plant Propagation
HORT 21700 Woody Landscape Plants
HORT 21800 Herbaceous Landscape Plants
HORT 30100 Plant Physiology
HORT 40300 Tropical Horticulture
HORT 42000 Ornamental Plant Production
HORT 42100 Fruit Production
HORT 42200 Vegetable And Herb Production
HORT 44200 Sustainability in The Managed Landscape
ИТ 22600 Biotechnology Laboratory I
ИТ 22700 Biotechnology Laboratory II
МА 16200 Plane Analytic Geometry and Calculus II
МА 16600 Analytic Geometry and Calculus II
МА 22400 Introductory Analysis II
МА 23200 Calculus for the Life Sciences II
МА 26100 Multivariate Calculus
МА 26500 Linear Algebra
НАРС 23000 Survey of Meteorology
НАРС 25500 Soil Science
НАРС 29000 Introduction to Environmental Science
НАРС 38500 Environmental Soil Chemistry
ФИС 15200 Mechanics
ФИС 17200 Modern Mechanics
ФИС 22000 General Physics
ФИС 22100 General Physics
ФИС 24100 Electricity and Optics
STAT 50200 Experimental Statistics II
STAT 51100 Statistical Methods
STAT 51200 Applied Regression Analysis

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