

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<sup>8</sup>
- \_\_\_\_\_ (3) ENTM Selective<sup>8</sup>

**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<sup>5</sup>
- \_\_\_\_\_ (4) Biological Science Selective<sup>5</sup>
- \_\_\_\_\_ (3) Calculus Selective (satisfies Quantitative Reasoning for core)<sup>6</sup>
- \_\_\_\_\_ (3) Philosophy, Logic or Critical Thinking Selective<sup>9</sup>
- \_\_\_\_\_ (3) Insect Pest Management Selective<sup>7</sup>
- \_\_\_\_\_ (12) Interdisciplinary Science Selectives<sup>10</sup>
- \_\_\_\_\_ (3) Economics Selective (satisfies Human Culture Behavioral/Social Science for core)<sup>3</sup>
- \_\_\_\_\_ (3) UCC Humanities Selective (satisfies Human Cultures Humanities for core)<sup>1</sup>
- \_\_\_\_\_ (3) Humanities or Social Science Selective<sup>2</sup>
- \_\_\_\_\_ (3) Humanities or Social Science Selective<sup>2</sup>
- \_\_\_\_\_ (3) Humanities or Social Science Selective (30000+ level)<sup>2</sup>
- \_\_\_\_\_ (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<sup>4</sup>

**Electives (14 credits)**

- \_\_\_\_\_ (14) Elective

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

Human Cultures Humanities	<input type="checkbox"/>	_____	Science, Technology & Society Selective	<input type="checkbox"/>	_____
Human Cultures Behavioral/Social Science	<input type="checkbox"/>	_____	Written Communication	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	_____	Oral Communication	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____	Quantitative Reasoning	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____			

**College of Agriculture & University Level Requirements ([https://ag.purdue.edu/oap/Pages/core\\_requirements.aspx](https://ag.purdue.edu/oap/Pages/core_requirements.aspx))**

3 credits Multicultural Awareness	<input type="checkbox"/>	_____			
9 credits International Understanding	<input type="checkbox"/>	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
9 credits of Hum. And/or Social Sciences outside the College of Agriculture	<input type="checkbox"/>	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
3 credits of Hum. And/or Social Science at 30000 or higher	<input type="checkbox"/>	_____			

## Insect Biology

### Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
0.5	AGR 10100 Introduction to the College of Agriculture and Purdue University		3	CHM 11200 General Chemistry	CHM 11100
0.5	AGR 11700 Introduction to Entomology Programs		4	ENGL 10600 First-Year Composition	
3	CHM 11100 General Chemistry		3	ENTM 21000 Insect Behavior	
3	COM 11400 Fundamentals of Speech or COM 21700 Science Writing and Presentation		4	Biological Science Selective	
2	ENTM 20600 General Entomology				
1	ENTM 20700 General Entomology Lab	ENTM 20600			
3	Interdisciplinary Science Selective				
3	Calculus Selective <sup>CC</sup>				
<b>16</b>			<b>14</b>		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
4	ENTM 33500 Introduction to Insect Identification	ENTM 20700	4	CHM 25700 Organic Chemistry	CHM 11200
4	Biological Sciences Selective		3	ENTM 31100 Insect Ecology	
3	Entomology Selective		3	PHYS 21400 The Nature of Physics	
3	UCC Humanities Selective		3	FNR 10300 Introduction to Environmental Conservation or NRES 29000 Introduction to Environmental Science	
			3	Economics Selective	
<b>14</b>			<b>16</b>		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	BCHM 30700 Biochemistry	CHM 25700	3	AGRY 32000 Genetics	BIOL 11000
1	BCHM 30900 Biochemistry lab	CHM 25700	1	AGRY 32100 Genetics Lab	AGRY 32000
1	ENTM 49200 Capstone Experience Entomology I		3	ENTM 55100 Insect Biochemistry & Physiology	
3	STAT 30100 Elementary Statistical Methods		3	Interdisciplinary Science Selective	
3	Insect Pest Management Selective		3	Humanities or Social Science Selective	
3	Elective		3	Elective	
<b>14</b>			<b>16</b>		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	Entomology Selective		1	ENTM 49300 Capstone Experience in Entomology II	BTNY 49800
3	Humanities or Social Science Selective		3	Humanities or Social Science Selective (30000+ level)	
3	Interdisciplinary Science Selective		3	Interdisciplinary Science Selective	
3	Written or Oral Communication Selective		3	Philosophy, Logic or Critical Thinking Selective	
3	Electives		5	Electives	
<b>15</b>			<b>15</b>		

- 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

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The student is ultimately responsible for knowing and completing all degree requirements.  
myPurdue Plan is knowledge source for specific requirements and completion

# IBIO Supplemental Information

All prerequisites must be met

## **<sup>1</sup>University Core Curriculum Humanities Selective (3 credits)**

See approved Humanities list at: <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

## **<sup>2</sup>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)

## **<sup>3</sup>Economics Selective (3 credits)**

AGEC 20300 Introductory Microeconomics for Food and Agribusiness	AGEC 21700 Economics	ECON 25100 Microeconomics
AGEC 20400 Introduction to Resource Economics and Environmental Policy	ECON 21000 Principles of Economics	ECON 25200 Macroeconomics

## **<sup>4</sup>Written or Oral Communication Selective (minimum 6 credits)**

AGR 20100 Communication Across Culture	COM 20000-59900	YDAE 44000 Methods of Teaching Agriculture Education
ASL 10000-59900	ENGL 20000-59900	

## **<sup>5</sup>Biological Science (8 credits)**

BIOL 11000 Fundamentals of Biology I	BIOL 13800 Information and Communication Skills	BIOL 24100 Biology IV: Genetics and Molecular Biology
BIOL 11000 Fundamentals of Biology I	BIOL 20300 Human Anatomy and Physiology	BIOL 24200 Laboratory on Biology IV: Genetics and Molecular Biology
BIOL 12100 Biology I: Ecology, Diversity, & Behavior	BIOL 20400 Human Anatomy and Physiology	BIOL 29500 Quantitative Biology of the Living Cell
BIOL 13100 Biology II: Dev, Structure & Function of Organisms	BIOL 22100 Introduction to Microbiology	BTNY 11000 Intro to Plant Science
BIOL 13500 First year Biology lab	BIOL 23000 Biology of the Living Cell	HORT 30100 Plant Physiology
BIOL 13600 Quantitative and Problem Solving Skills	BIOL 23100 Biology III: Cell Structure and Function	
BIOL 13700 Handling Cells and Tissues, Microscopy	BIOL 23200 Laboratory in Biology III: Cell Structure and Function	

## **<sup>6</sup>Calculus Selective (3 credits)**

MA 16010 Applied Calculus I	MA 16100 Plane Analytic Geometry and Calculus I
MA 16020 Applied Calculus II	MA 16500 Analytic Geometry and Calculus I

## **<sup>7</sup>Insect Pest Management Selective (3 credits)**

ENTM 44100 Forest Entomology	ENTM 44600 Integrated Plant Health & Management of Horticultural Plants)	ENTM 52100 Urban and Industrial Insect Management
ENTM 44300 Arthropods and Diseases of Turfgrass	ENTM 51000 (Insect Pest Management)	ENTM 52500 Medical and Veterinary Entomology

## **<sup>8</sup>Entomology Selective (6 credits)**

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

## **<sup>9</sup>Philosophy, Logic or Critical Thinking Selective (3 credits)**

PHIL 10000-46500

**<sup>10</sup>Interdisciplinary Science Selective (12 credits)**

AGEC 35200 Quantitative Techniques for Firm Decision Making	ASM 42000 Electric Power and Controls	CHM 25600 Organic Chemistry
AGEC 45100 Applied Econometrics	ASM 51000 Agrosecurity-Emergency Management for Agricultural Production Operations	CHM 25601 Organic Chemistry Laboratory
AGRY 25500 Crop Production	ASM 53000 Power and Machinery Management	CHM 25701 Organic Chemistry Laboratory
AGRY 25500 Soil Science	ASM 54000 Geographic Information System Application	CS 15600 C Programming
AGRY 27000 Forest Soils	ASM 55000 Grain Drying and Storage	CS 18000 Programming I
AGRY 30500 Seed Analysis and Grain Grading	BCHM 22100 Analytical Biochemistry	EAS 11100 Physical Geology
AGRY 30600 Seed Technology	BCHM 32200 Analytical Biochemistry	EAS 11200 Earth Through Time
AGRY 33500 Weather and Climate	BCHM 36100 Molecules	EAS 22100 Survey of Atmospheric Science
AGRY 33600 General Meteorology	BCHM 46200 Metabolism	FNR 10300-59700 Multiple Titles
AGRY 33700 Environmental Hydrology	BCHM 46300 Macromolecular Machines	FN 31500 Fundamentals of Nutrition
AGRY 34900 Soil Ecology	BCHM 46500 Biochemistry of Life Processes	FS 16100 Science of Food
AGRY 35500 Soil Morphology and Geography	BIOL 22100 Introduction to Microbiology	FS 24500 Food Packaging
AGRY 36500 Soil Fertility	BIOL 23100 Biology III: Cell Structure and Function	FS 34000-36900 Multiple Titles
AGRY 37500 Crop Production Systems	BIOL 23200 Laboratory in Biology III: Cell Structure and Function	FS 43100-46900 Multiple Titles
AGRY 38500 Environmental Soil Chemistry	BIOL 24100 Biology IV: Genetics and Molecular Biology	FS 50000-59900 Multiple Titles
AGRY 45000 Soil Conservation and Water Management	BIOL 24200 Laboratory in Biology IV: Genetics and Molecular Biology	HSCI 20100 Principles of Public Health Science
AGRY 46500 Soil Physical Properties	BIOL 27000 Cell Structure and Function	HSCI 20200 Essential of Environmental, Occupational and Radiological Health Sciences
AGRY 50500 Forage Management	BIOL 27100 Laboratory in Cell Structure and Function	HSCI 33300-34800 Multiple Titles
AGRY 51500 Plant Mineral Nutrition	BIOL 28000 Genetics and Molecular Biology	HSCI 45700 Clinical Parasitology
AGRY 52500 Crop Physiology and Ecology	BIOL 28100 Laboratory in Genetics and Molecular Biology	HSCI 56000 Toxicology
AGRY 54000 Soil Chemistry	BIOL 28600 Introduction to Ecology and Evolution	HORT 10100 Fundamentals of Horticulture
AGRY 54400 Environmental Organic Chemistry	BIOL 28700 Organisms and Populations	HORT 20100 Plant Propagation
AGRY 54500 Remote Sensing of Land Resources	BTNY 20100 Plants and Civilization	HORT 21700 Woody Landscape Plants
AGRY 55500 Soil and Plant Analysis	BTNY 20400 Crop and Weed Identification	HORT 21800 Herbaceous Landscape Plants
AGRY 56000 Soil Physics	BTNY 20500 The Spring Flora of Indiana	HORT 30100 Plant Physiology
AGRY 56500 Soil Classification, Genesis, and Survey	BTNY 20900 Plant Diversity	HORT 40300 Tropical Horticulture
AGRY 58000 Soil Microbiology	BTNY 21100 Plants and the Environment	HORT 42000 Ornamental Plant Production
AGRY 58500 Soils and Land Use	BTNY 30100 Introductory Plant Pathology	HORT 42100 Fruit Production
ANSC 20100 Functional Anatomy and Animal Performance	BTNY 30200 Plant Ecology	HORT 42200 Vegetable And Herb Production
ANSC 22100 Principles of Animal Nutrition	BTNY 30400 Introductory Weed Science	HORT 44200 Sustainability In The Managed Landscape
ANSC 23000 Physiology of Domestic Animals	BTNY 30500 Fundamentals of Plant Classification	IT 22600 Biotechnology Laboratory I
ANSC 30100 Animal Growth, Development, and Evaluation	BTNY 31600 Plant Anatomy	IT 22700 Biotechnology Laboratory II
ANSC 31100 Animal Breeding	BTNY 35000 Biotechnology in Agriculture	MA 16200 Plane Analytic Geometry and Calculus II
ANSC 35100 Meat Science	BTNY 42000 Plant Cellular and Molecular Biology	MA 16600 Analytic Geometry and Calculus II
ANSC 35101 Meat Science Laboratory	BTNY 49800 Research in Plant Science	MA 22400 Introductory Analysis II
ANSC 51100 Population Genetics	BTNY 50400 Advanced Weed Science	MA 23200 Calculus for the Life Sciences II
ANSC 51400 Animal Biotechnology	BTNY 50500 Advanced Biology of Weeds	MA 26100 Multivariate Calculus
ASM 10400 Introduction to Agricultural Systems	BTNY 52500 Intermediate Plant Pathology	MA 26500 Linear Algebra
ASM 10500 Agricultural Systems Computations and Communication	BTNY 53500 Plant Disease Management	NRES 23000 Survey of Meteorology
ASM 20100 Construction and Maintenance	BTNY 55000 Biology of Fungi	NRES 25500 Soil Science
ASM 21100 Technical Graphic Communication	BTNY 55300 Plant Growth and Development	NRES 29000 Introduction to Environmental Science
ASM 21500 Surveying	BTNY 55500 Aquatic Botany	NRES 38500 Environmental Soil Chemistry
ASM 22200 Crop Production Equipment	BTNY 55600 Aquatic Plant Management	PHYS 15200 Mechanics
ASM 24500 Materials Handling and Processing	CHM 22400 Introductory Quantitative Analysis	PHYS 17200 Modern Mechanics
ASM 32200 Technology of Precision Agriculture	CHM 25501 Organic Chemistry Laboratory	PHYS 22000 General Physics
ASM 33300 Facilities Planning and Management		PHYS 22100 General Physics
ASM 33600 Environmental Systems Management		PHYS 24100 Electricity and Optics
ASM 34500 Power Units and Power Trains		STAT 50200 Experimental Statistics II
		STAT 51100 Statistical Methods
		STAT 51200 Applied Regression Analysis