# Department of Agricultural Science and Plant Protection

Interim Department Head: Dr. Fred Musser Interim Academic Coordinator: Dr. Cory Bailey

The Department of Agricultural Science and Plant Protection offers a Bachelor of Science degree in Agricultural Science and minors in Entomology and Plant Pathology. These programs prepare individuals for a variety of agricultural related careers. Many agricultural businesses and organizations are seeking graduates who have a diversified knowledge of agriculture and life sciences, which includes production agriculture, business, leadership and management. Many graduates of these programs become involved in agriculture business and industry, production agriculture operations, international agriculture development, or pursue advanced study in areas such as agronomy, entomology, and plant pathology.

### **BS in Agricultural Science (AGS)**

The Agricultural Science degree prepares individuals for a variety of agricultural related careers. Many agricultural businesses and organizations are seeking graduates who have a diversified knowledge of agriculture and life sciences, which includes production agriculture, business, leadership and management. Many graduates become involved in agriculture business and industry, production agriculture operations, international agriculture development or pursue advanced study in areas such as nutrition and agricultural education.

Agricultural Science allows students to develop a high concentration of science and specialized agricultural study. Through the Agricultural Science degree program, a student can pursue a bachelor of science in agriculture and develop specialization areas that will serve his/her individual needs and interests. For the degree requirements, students must complete 124 hours, which includes 18 hours of science and 58 hours of agricultural science. Thirty hours will be agricultural science electives, which must be taken from two different agriculture focus areas within the College of Agriculture and Life Sciences. (See advisor for suggested focus areas.) The student should select agricultural focus areas that are closely related and complement each other and are related to the career objectives of the student. At least 12 hours in each agricultural focus area must be 3000-4000 level courses. The student will also have 14 hours of agriculture and science electives to complete which should also complement the selected agricultural focus areas. At least three hours must be a natural life science.

Graduates will have knowledge of

- 1. the diversified field of agriculture;
- 2. basic agricultural sciences;
- 3. leadership principles;
- 4. the basic principles of production; and
- 5. the application of basic science principles to production agriculture and agricultural business management.

#### Graduates will be able to

- 1. plan and conduct basic agricultural research;
- 2. manage an agricultural enterprise (business or production);
- 3. provide leadership in a variety of employment settings; and
- 4. communicate effectively orally and in writing to various audiences.

In various courses, students produce and present reports that demonstrate the performance learning objectives. In addition to faculty assessment, external assessors from other departments and from typical clientele audiences observe presentations and provide feedback.

Internship supervisors and co-curricular sponsors, along with student participants, provide feedback about the internship using a form based on the learning objectives.

#### General Education Requirements

#### **English Composition**

EN 1103	English Composition I	3
or EN 1104	Expanded English Composition I	
EN 1113	English Composition II	3
or EN 1173	Accelerated Composition II	
Creative Discovery		

Select from General Education courses

Select from General Education courses	Humanities		
Social/Behavioral Sciences           AEC 2713         Introduction to Food and Resource Economics         3           or EC 2123         Principles of Microeconomics           or EC 2123         Principles of Microeconomics           Select From General Education courses           Countitative Reasoning           Select from General Education courses           Solitation Reasoning           Select from General Education courses           Solitation Reasoning           Select from General Education courses           Solitation Reasoning           A principles of Plant Pathology           Solitation Reason of Nou a			6
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or EC 2123         Principles of Microeconomics           Select from General Education courses           Countitative Reasoning           Select from General Education courses           Select from General Education courses           Natural Sciences           Biology I           Biology I           Charles           Charles           Biology II           Charles           Chemistry I           Applications of Selected Requirements           Major Core           ABE 1863         Engineering Technology in Agriculture         3           AD Segree Requirements           Major Core           ABE 1863         Engineering Technology in Agriculture         3           ABS 1113         An imal Science         3           A Description Science         4         4           A Description Science Laboratory         3         3           A EL 1933         Chemistry I         3         3           A Experimental Chemistry I         1         4         4			3
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	Computer Literacy		
	AELC 4203	Applications of Computer Tech to Agricultural Education, Leadership, and Communications	3
	Total Hours		124

See advisor for approved courses

# **Entomology Minor**

The Entomology minor is offered to help students in other programs develop specific disciplinary skills to prepare them for entry into the science-related workforce. Agriculture, forestry, and service sector industries recruit and employ a diversity of personnel variously trained in the biological sciences, business, chemistry, human health, law, natural resource management, and veterinary medicine for whom expertise in entomology would be considered an asset. The minor in Entomology provides these individuals with enhanced employment opportunities in these industries.

<sup>3</sup> hours must be a natural/life science

Students seeking an Entomology minor are required to complete at least 18 credit hours as specified to receive a minor in Entomology. Additionally, students in the IPM concentration of the Agronomy major must complete EPP 4164 (http://catalog.msstate.edu/archives/2024-25/search/?P=EPP %204164) Insect Taxonomy as a requirement for receiving a minor in Entomology.

EPP 2213	Introduction to Insects	3-4
or EPP 4154	General Entomology	
EPP 4263	Principles of Insect Pest Management	3
EPP 4000	Directed Individual Study in Entomology and Plant Pathology	3-5
Choose 6-9 hours from the following:		6-9
EPP 3124	Forest Pest Management	
EPP 3423	Ornamental and Turfgrass Insects	
EPP 4164	Insect Taxonomy (required for AGR-IPM majors)	
EPP 4173	Medical and Veterinary Entomology	
EPP 4234	Field Crop Insects	
EPP 4244	Aquatic Entomology	
EPP 4335		
EPP 4543	Toxicology and Insecticide Chemistry	
EPP 4613	Forensic Entomolgy	
Total Hours		18

## **Plant Pathology Minor**

The Plant Pathology minor is offered to help students in other programs develop specific disciplinary skills to prepare them for entry into the science-related workforce. Agriculture, forestry, and service sector industries recruit and employ a diversity of personnel variously trained in the biological sciences, business, chemistry, human health, law, natural resource management, and veterinary medicine for whom expertise in plant pathology would be considered an asset. The minor in Plant Pathology provides these individuals with enhanced employment opportunities in these industries.

Students seeking a Plant Pathology minor are required to complete at least 18 credit hours as specified to receive a minor in Plant Pathology. Additionally, students in the IPM concentration of the Agronomy major must complete EPP 4254 (http://catalog.msstate.edu/archives/2024-25/search/? P=EPP%204254) Introduction to Mycology as a requirement for receiving a minor in Plant Pathology.

EPP 4000	Directed Individual Study in Entomology and Plant Pathology	3-5
EPP 4113	Principles of Plant Pathology	3
EPP 4163	Plant Disease Management	3
Choose 7-9 hours from the following:		7-9
EPP 3124	Forest Pest Management	
EPP 4152	Advanced Fungal Taxonomy-Fungi Imperfecti	
EPP 4214	Diseases of Crops	
EPP 4254	Introduction to Mycology (required for AGR-IPM majors)	
EPP 4264	Advanced Mycology	
EPP 4523	Turfgrass Diseases	
Total Hours		18