

# Department of Poultry Science

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## Major Advisor: Assistant Professor Aaron Kiess

Office: Hill Poultry Science

The U.S. poultry industry is a \$21 billion+ business employing hundreds of thousands of people in the United States. Mississippi ranks 4th in broiler production and is continuing to expand. This dynamic industry employs about 25,000 Mississippians directly and another 25,000 indirectly.

The Poultry curriculum provides for in-depth study of scientific principles important in the production, processing and marketing of poultry and poultry products. The curriculum is designed with academic and experiential components to ensure that graduates are prepared to manage people and resources vital to this important food industry. Poultry students should also expect to develop creative thinking skills that will allow them to develop solutions for complex real world problems as they develop their careers as managers. The strong science content of the curriculum also makes it an excellent fit for pre-vet students and students interested in graduate studies. The department provides one-on-one advising for all Poultry Science students. Concentrations available are:

- Production Systems
- Business Management
- Processed Products
- Pre-Veterinary Medicine

Only grades of C or higher will be accepted for all PO courses as well as BIO 3103, GNS 3103, and VS 2033.

## BS in Poultry Science (PO)

### Degree Requirements

#### English Composition

EN 1103	English Composition I	3
or EN 1163	Accelerated Composition I	
EN 1113	English Composition II	3
or EN 1173	Accelerated Composition II	

#### Mathematics

MA 1313	College Algebra	3
Choose one of the following:		3
MA 1323	Trigonometry (Pre-Vet Conc. Only)	
All other concentrations select from General Education courses		

#### Science

See major/concentration		9
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#### Humanities

Select from General Education courses		6
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#### Fine Arts

Select from General Education courses		3
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#### Social Sciences

Select from General Education courses		6
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#### Major Core

MGT 3513	Introduction to Human Resource Management	3
PO 3011	Seminar	1
PO 3021	Seminar	1
PO 3103	Genetics I	3
PO 3313	Commercial Poultry Production	3
PO 4031	Seminar	1
PO 4041	Seminar	1
PO 4033	Diseases of Poultry	3
PO 4313	Management of Commercial Layers	3
PO 4324	Avian Reproduction	4
PO 4334	Broiler Production	4

PO 4413	Poultry Nutrition	3
PO 4423	Feed Manufacturing	3
PO 4514	Poultry Processing	4
PO 4844	Avian Anatomy and Physiology	4
PO 3353	Poultry Production Internship	3
PO 3363	Poultry Processing Internship	3
FLS 1113	Spanish I	3
FNH 4414	Microbiology of Foods	4

**Oral Communication Requirement**

Satisfied by successful completion of PO 3021, 4031, and 4041

**Writing Requirement**

Satisfied by successful completion of PO 4324 and 4844

**Computer Literacy**

Satisfied by successful completion of PO 4324 and 4844

**Choose one of the following concentrations:****Production Systems Concentration (POPS)**

The technical aspects of poultry production demands knowledge of business operation, building construction and the operation of the sophisticated equipment utilized throughout the industry. This concentration is appropriate for students interested in entering into a personal poultry operation of field services with large poultry enterprises.

ABE 1863	Engineering Technology in Agriculture	3
ABE 4383	Building Construction	3
ABE 4473	Electrical Applications	3
ACC 2013	Principles of Financial Accounting	3
AEC 3133	Introductory Agribusiness Management	3
BIO 1123	Animal Biology	3
BL 2413	The Legal Environment of Business	3
CH 1043	Survey of Chemistry I	3
EG 1143	Graphic Communication	3
PSS 3303	Soils	3
AEC 2713	Introduction to Food and Resource Economics	3
BIO 2113	Plant Biology	3
Free Electives		6
<b>Total Hours</b>		<b>122</b>

**Business Management Concentration (POBM)**

Poultry is one of the largest agribusinesses in the U.S. The business management concentration satisfies all the requirements for a minor in Agribusiness. Thus, this concentration offers lucrative employment opportunities to the poultry science major.

ACC 2013	Principles of Financial Accounting	3
ACC 2023	Principles of Managerial Accounting	3
AEC 4123	Financial and Commodity Futures Marketing	3
BIO 1123	Animal Biology	3
BL 2413	The Legal Environment of Business	3
CH 1043	Survey of Chemistry I	3
EC 2113	Principles of Macroeconomics	3
AEC 3133	Introductory Agribusiness Management	3
AEC 2713	Introduction to Food and Resource Economics	3
AEC 3233	Introduction to Environmental Economics and Policy	3
BIO 2113	Plant Biology	3
Free Electives		9
<b>Total Hours</b>		<b>122</b>

## Processed Products Concentration (POPP)

The future growth of the poultry industry is closely associated with advancements in processing technology. There is a large demand for well trained poultry scientists with this capability. This processed products concentration satisfies the requirements for a minor in Food Science.

BCH 4013	Principles of Biochemistry	3
BIO 1134	Biology I	4
BIO 1144	Biology II	4
CH 1213	Chemistry I	3
CH 1223	Chemistry II	3
CH 4513	Organic Chemistry I	3
CH 4523	Organic Chemistry II	3
FNH 4164	Quality Assurance of Food Products	4
FNH 4241	Applied Food Chemistry	1
FNH 4243	Composition and Chemical Reactions of Foods	3
FNH 4583	Food Preservation Technology	3
Free Electives		8
<b>Total Hours</b>		<b>122</b>

## Pre-Veterinary Concentration (PVSP)

The Pre-Veterinary concentration allows a student to satisfy the pre-veterinary requirements while completing a B.S. in Poultry Science. The Poultry Science department offers a 3 + 1 program for admission to the College of Veterinary Medicine. Contact the Poultry Science department for these requirements.

ACC 2013	Principles of Financial Accounting	3
AEC 3133	Introductory Agribusiness Management	3
BCH 4013	Principles of Biochemistry	3
BIO 1134	Biology I	4
BIO 1144	Biology II	4
CH 1211	Investigations in Chemistry I	1
CH 1213	Chemistry I	3
CH 1221	Investigations in Chemistry II	1
CH 1223	Chemistry II	3
CH 4511	Organic Chemistry Laboratory I	1
CH 4513	Organic Chemistry I	3
CH 4521	Organic Chemistry Laboratory II	1
CH 4523	Organic Chemistry II	3
PH 1113	General Physics I	3
PH 1123	General Physics II	3
Free Electives		5
<b>Total Hours</b>		<b>124</b>

## Poultry Minor

The need for people who have specialized knowledge outside of classic poultry science is growing rapidly. Currently the industry recruits and employs personnel trained in areas such as accounting, biological sciences, computer science, human nutrition, nursing, microbiology, engineering, food technology, advertising and marketing, veterinary medicine, human resource management and law. A minor in Poultry Science provides these individuals with enhanced employment opportunities in the poultry industry.

Students will be required to complete the following courses to receive a minor in Poultry Science.

PO 3313	Commercial Poultry Production	3
PO 4313	Management of Commercial Layers	3
PO 4334	Broiler Production	4
PO 4413	Poultry Nutrition	3
PO 4514	Poultry Processing	4