

# Department of Poultry Science

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## Major Advisor: Jessica Wells

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The U.S. poultry industry is a \$21 billion+ business employing hundreds of thousands of people in the United States. Mississippi ranks in the top five broiler producing states and continues 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:

- Applied Poultry Management
- Science and Pre-Veterinary Science

Only grades of C or higher will be accepted for all PO courses.

## BS in Poultry Science (PO)

### Degree Requirements

<b>English Composition</b>		6
EN 1103 or EN 1163	English Composition I Accelerated Composition I	
EN 1113 or EN 1173	English Composition II Accelerated Composition II	
<b>Mathematics</b>		6
MA 1313	College Algebra	
MA higher than MA 1313 (see Gen Ed courses)		
<b>Science</b>		9
See major/concentration		
<b>Humanities</b>		6
Select from General Education courses (except FLS 1113 which is major core requirement)		
<b>Fine Arts</b>		3
Select from General Education courses		
<b>Social Sciences</b>		6
Applied Poultry Management concentration: Select hours from General Education courses (except AEC 2713 which is a major concentration requirement)		
Science and Pre-Vet Science concentration: Select hours from General Education courses		
<b>Major Core</b>		
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
FLS 1113	Spanish I	3
FNH 4414	Microbiology of Foods	4
or BIO 3304	General Microbiology	

#### **Experiential Learning** 3

PO 4990	Special Topics in Poultry Science
or PO 3363	Poultry Processing Internship
or PO 4000	Directed Individual Study in Poultry Science

#### **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:**

### **Applied Poultry Management Concentration (APOM)**

Many large agribusiness firms are in the poultry sector. It prepares students to enter into all areas of the poultry industry with the knowledge necessary to be successful.

ACC 2013	Principles of Financial Accounting	3
BL 2413	The Legal Environment of Business	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
AEC 4113	Agribusiness Firm Management	3
AEC 4413	Public Problems of Agriculture	3
MKT 3013	Principles of Marketing	3

#### **Science Requirements** 9-11

Choose 3 of the following (major core science requirements):

BIO 1134	Biology I
BIO 1123	Animal Biology
BIO 1144	Biology II
BIO 2113	Plant Biology
CH 1043	Survey of Chemistry I
or CH 1213 & CH 1211	Chemistry I and Investigations in Chemistry I
CH 1223 & CH 1221	Chemistry II and Investigations in Chemistry II

#### **Restricted Electives** 2-3

Choose one of the following:

PO 3423	Poultry Evaluation I
PO 3433	Poultry Evaluation II.
PO 4512	Poultry Products Safety and Sanitation
ADS /PO 1013	Animal Agriculture & Society: Food for Thought
MGT 3513	Introduction to Human Resource Management

#### **Free Electives** 5-8

**Total Hours** 122

## Science and Pre-Veterinary Science Concentration (SPVS)

The Science and Pre-Veterinary Science concentration prepares a student for future programs at a graduate level and also allows a student to satisfy the pre-veterinary requirements while completing a B.S. in Poultry Science.

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 2503 & CH 2501	Elementary Organic Chemistry and Elementary Organic Chemistry Laboratory	4
or CH 4513 & CH 4511	Organic Chemistry I and Organic Chemistry Laboratory I	
<b>Restricted Electives</b>		<b>11-14</b>
Choose four from the following:		
CH 4523 & CH 4521	Organic Chemistry II and Organic Chemistry Laboratory II	
BCH 4013 or BCH 4603	Principles of Biochemistry General Biochemistry I	
PH 1113	General Physics I	
PH 1123	General Physics II	
PO 4512	Poultry Products Safety and Sanitation	
PO 3423	Poultry Evaluation I	
PO 3433	Poultry Evaluation II.	
ADS /PO 1013	Animal Agriculture & Society: Food for Thought	
<b>Free Electives</b>		<b>10-13</b>
<b>Total Hours</b>		<b>122</b>

## Poultry Science 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 or PO 4423	Poultry Nutrition Feed Manufacturing	3
PO 4514	Poultry Processing	4