

Department of Poultry Science

Major Advisor: Jessica Wells

Office: Hill Poultry Science Rm 104

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

| | | |
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| English Composition | | 6 |
| EN 1103 or EN 1104 | English Composition I Expanded English Composition I | |
| EN 1113 or EN 1173 | English Composition II Accelerated Composition II | |
| Mathematics | | 6 |
| MA 1313 | College Algebra | |
| MA higher than MA 1313 (see Gen Ed courses) | | |
| Science | | 9 |
| See major/concentration | | |
| Humanities | | 6 |
| Select from General Education courses (except FLS 1113 which is major core requirement) | | |
| Fine Arts | | 3 |
| Select from General Education courses | | |
| Social Sciences | | 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 | | |
| Major Core | | |
| 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 |

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|-------------|-------------------------------|---|
| 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

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|------------|--|
| 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.

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|----------|--|---|
| 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.

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|-----------------------------|---|--------------|
| 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 | |
| Restricted Electives | | 11-14 |

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 | |

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| Free Electives | | 10-13 |
| Total Hours | | 122 |

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 |