

Poultry Science (BS): Science Concentration

To see more about what you will learn in this program, visit the Learning Outcomes website (<https://apps.oirp.ncsu.edu/pgas/>)!

Curricula

Students desiring a Bachelor of Science degree with a major in Poultry Science may choose either the science or technology curriculum offered by the Prestage Department of Poultry Science. Students interested in research or veterinary/medical fields can meet the pre-requisites for these professional schools through the science concentration. These students are also better prepared for advanced study in various disciplines such as genetics, nutrition, physiology, and pathology. The technology curriculum in Poultry Science allows a greater selection of courses in business and economics; and offers a student both basic and applied knowledge in poultry production which can be utilized in the poultry or allied industries upon graduation. One may obtain a double major in other curricula through careful use of electives and/or summer school attendance. These students should consult the undergraduate advisers in the department(s) concerned.

Career Opportunities

The transition from small farm to large commercial poultry operations has created more specialized positions than there are available poultry science graduates. Production-oriented positions and off-the-farm operations in areas such as processing and distribution offer new job opportunities. Allied industries such as: feed manufacturing, equipment sales, financing, pharmaceutical development and research — need additional employees trained in Poultry Science. Graduates are employed in the communication and public relations sectors, as teachers, and extension and research specialists and as veterinarians.

Plan Requirements

Code	Title	Hours	Counts towards
Orientation			
ALS 103	Freshman Transitions and Diversity in Agriculture & Life Sciences	1	
or ALS 303	Transfer Transitions and Diversity in Agriculture & Life Sciences		
Communications			
ENG 101	Academic Writing and Research ¹	4	
COM 110	Public Speaking	3	
or COM 112	Interpersonal Communication		
Select one of the following Advanced Communication courses:		3	
ENG 331	Communication for Engineering and Technology		
ENG 332	Communication for Business and Management		

ENG 333 Communication for Science and Research

Social Sciences & Business

ARE 201 Introduction to Agricultural & Resource Economics 3

Business/Finance Elective (p. 2) 3

Physical and Biological Science

MA 107 Precalculus I 3

Select one of the following Calculus I courses:

MA 121 Elements of Calculus

MA 131 Calculus for Life and Management Sciences A

MA 141 Calculus I

ST 311 Introduction to Statistics 3

BIO 181 Introductory Biology: Ecology, Evolution, and Biodiversity 4

BIO 183 Introductory Biology: Cellular and Molecular Biology 4

CH 101 & CH 102 Chemistry - A Molecular Science and General Chemistry Laboratory¹ 4

PY 131 Conceptual Physics 4

or PY 211 College Physics I

CH 221 & CH 222 Organic Chemistry I and Organic Chemistry I Lab 4

CH 223 & CH 224 Organic Chemistry II and Organic Chemistry II Lab 4

CH 201 & CH 202 Chemistry - A Quantitative Science and Quantitative Chemistry Laboratory 4

GN 311 Principles of Genetics 4

MB 351 & MB 352	General Microbiology and General Microbiology Laboratory	4
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Departmental Requirements

PO 201 & PO 202	Poultry Science and Production and Poultry Science and Production Laboratory ¹	4
PO 290	Poultry Seminar	1
PO 322 or PO 433	Muscle Foods and Eggs ¹ Poultry Processing and Products	3
PO 404	Avian Anatomy and Physiology ¹	4
PO 415	Comparative Nutrition ¹	3
PO 435	Poultry Incubation & Breeding ¹	4
VMP 401	Poultry Diseases ¹	4

GEP Courses

GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/)	6
GEP Social Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-social-sciences/)	3
GEP Health and Exercise Studies (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/)	2
GEP US Diversity, Equity, and Inclusion (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/)	3
GEP Interdisciplinary Perspectives (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/)	5
GEP Global Knowledge (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-global-knowledge/) (verify requirement)	
Foreign Language Proficiency (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/foreign-language-proficiency/) (verify requirement)	

Free Electives

Free Electives (12 Hr S/U Lmt) ²	16
Total Hours	120

¹ A grade of C- or higher is required.

² Students should consult their academic advisors to determine which courses fill this requirement.

Business/Finance Electives

Code	Title	Hours	Counts towards
ACC 210	Concepts of Financial Reporting	3	
ACC 220	Introduction to Managerial Accounting	3	
ACC 280	Survey of Financial and Managerial Accounting	3	
ARE 215	Small Business Accounting	3	
ARE 301	Intermediate Microeconomics	3	
ARE 303	Farm Management	3	
ARE 304	Agribusiness Management	3	
ARE 306	Agricultural Law	3	
ARE 309	Environmental Law & Economic Policy	3	
ARE 311	Agricultural Markets	3	
ARE 312	Agribusiness Marketing	3	
ARE 321	Agricultural Financial Management	3	
ARE 332	Human Resource Management for Agribusiness	3	
ARE 336	Introduction to Resource and Environmental Economics	3	
BUS 225	Personal Finance	3	
EC 202	Principles of Macroeconomics	3	
EC 301	Intermediate Microeconomics	3	
EC 302	Intermediate Macroeconomics	3	
EC 305	A Closer Look at Capitalism	3	

EC 336	Introduction to Resource and Environmental Economics	3
EC 348	Introduction to International Economics	3
MIE 201	Introduction to Business Processes	3

Semester Sequence

This is a sample.

First Year

Fall Semester		Hours
ALS 103	Freshman Transitions and Diversity in Agriculture & Life Sciences	1
ENG 101	Academic Writing and Research	4
MA 107	Precalculus I	3
PO 201	Poultry Science and Production ¹	3
PO 202	Poultry Science and Production Laboratory ¹	1
BIO 181	Introductory Biology: Ecology, Evolution, and Biodiversity	4
Hours		16

Spring Semester

BIO 183	Introductory Biology: Cellular and Molecular Biology	4
COM 110 or COM 112	Public Speaking or Interpersonal Communication	3
MA 121 or MA 131	Elements of Calculus or Calculus for Life and Management Sciences A	3
GEP Social Sciences (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-social-sciences/)		3
Free Elective		3
Hours		16

Second Year

Fall Semester		Hours
ARE 201	Introduction to Agricultural & Resource Economics	3
CH 101	Chemistry - A Molecular Science	3
CH 102	General Chemistry Laboratory	1
PO 290	Poultry Seminar ¹	1
GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/)		3
GEP Health and Exercise Studies (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/)		1
Free Electives		3
Hours		15

Spring Semester

CH 221	Organic Chemistry I	3
CH 222	Organic Chemistry I Lab	1

ST 311	Introduction to Statistics	3
GEP Health and Exercise Studies (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-health-exercise-studies/)		1
GEP Humanities (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-humanities/)		3
Free Electives		3

Hours 14

Third Year

Fall Semester

CH 223	Organic Chemistry II	3
CH 224	Organic Chemistry II Lab	1
PO/ANS/FS 322 or PO 433	Muscle Foods and Eggs ¹ or Poultry Processing and Products	3
PO/ANS 415	Comparative Nutrition ¹	3
PY 211 or PY 131	College Physics I or Conceptual Physics	4

Hours 14

Spring Semester

CH 201	Chemistry - A Quantitative Science	3
CH 202	Quantitative Chemistry Laboratory	1
Select one of the following:		3
ENG 331	Communication for Engineering and Technology	
ENG 332	Communication for Business and Management	
ENG 333	Communication for Science and Research	
GN 311	Principles of Genetics	4
ACC/ARE/BUS/EC Elective (p. 2)		3
GEP US Diversity, Equity, and Inclusion (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/)		3

Hours 17

Fourth Year

Fall Semester

MB 351	General Microbiology	3
MB 352	General Microbiology Laboratory	1
GEP Interdisciplinary Perspectives (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/)		3
PO 404	Avian Anatomy and Physiology ¹	4
Free Elective		3

Hours 14

Spring Semester

PO 435	Poultry Incubation & Breeding ¹	4
VMP 401	Poultry Diseases ¹	4
GEP Interdisciplinary Perspectives (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/)		2
Free Elective		4

Hours 14

Total Hours 120

¹ A grade of C- or higher is required.