

Poultry Science (BS): Science Concentration

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.

Contact

Dr. Lynn Worley-Davis
919.515.6852
lwdavis@ncsu.edu

Plan Requirements

Code	Title	Hours	Counts towards
Orientation			
PO 290	Exploring Opportunities in Poultry Science	2	
Communications			
ENG 101	Academic Writing and Research ¹	4	
COM 110 or COM 112	Public Speaking Interpersonal Communication	3	
Select one of the following		3	
Advanced Communication courses:			
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:		3	
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 Laboratory ¹	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
-----------------	--	---

Departmental Requirements

PO 201 & PO 202	Poultry Science and Production and Poultry Science and Production Laboratory ¹	4
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
PO 401	Poultry Diseases	4
PO/FM Restricted Electives (p.)		3

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 Elective (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/)		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)		
World Language Proficiency (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/world-language-proficiency/) (verify requirement)		

Free Electives

Free Electives (12 Hr S/U Lmt) ²	13
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

PO/ FM Restricted Electives

Code	Title	Hours	Counts towards
PO 340	Live Poultry and Poultry Product Evaluation, Grading, and Inspection	3	
PO 410	Production and Management of Game Birds in Confinement	3	
PO 421	Commercial Egg Production	3	
PO 424	Poultry Meat Production	3	

Semester Sequence

This is a sample.

First Year

Fall Semester		Hours
PO 290	Exploring Opportunities in Poultry Science	2
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
Hours		17
Spring Semester		Hours
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

ARE 201	Introduction to Agricultural & Resource Economics	3
CH 101	Chemistry - A Molecular Science	3
CH 102	General Chemistry Laboratory	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		14

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
GEP Elective (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/)		3
PO/FM Restricted Electives (p.)		3
Hours		17

Fourth Year

Fall Semester

MB 351	General Microbiology	3
MB 352	General Microbiology Laboratory	1
PO 404	Avian Anatomy and Physiology ¹	4

GEP Interdisciplinary Perspectives (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/)	3
ACC/ARE/BUS/EC Electives (p. 2)	3
Hours	14
Spring Semester	
PO 435 Poultry Incubation & Breeding ¹	4
PO 401 Poultry Diseases	4
GEP Interdisciplinary Perspectives (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-interdisciplinary-perspectives/)	3
Free Elective	3
Hours	14
Total Hours	120

¹ A grade of C- or higher is required.

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.

Career Titles

- Animal Husbandry Worker Supervisor
- Animal Kennel Manager
- Animal Scientist
- Farmers and Ranchers
- Food & Drug Inspector

Learn More About Careers

NCcareers.org (<https://nccareers.org/>)

Explore North Carolina's central online resource for students, parents, educators, job seekers and career counselors looking for high quality job and career information.

Occupational Outlook Handbook (<https://www.bls.gov/ooh/>)

Browse the Occupational Outlook Handbook published by the Bureau of Labor Statistics to view state and area employment and wage statistics. You can also identify and compare similar occupations based on your interests.

Career One Stop Videos (<https://www.careeronestop.org/>)

View videos that provide career details and information on wages, employment trends, skills needed, and more for any occupation. Sponsored by the U.S. Department of Labor.

Focus 2 Career Assessment (<https://careers.dasa.ncsu.edu/explore-careers/career-assessments/>) (NC State student email address required)

This career, major and education planning system is available to current NC State students to learn about how your values, interests, competencies, and personality fit into the NC State majors and your future career. An NC State email address is required to create an

account. Make an appointment with your career counselor (<https://careers.dasa.ncsu.edu/about/hours-appointments/>) to discuss the results.

Focus 2 Apply Assessment (<https://www.focus2career.com/Portal/Register.cfm?SID=1929>) (Available to prospective students)

A career assessment tool designed to support prospective students in exploring and choosing the right major and career path based on your unique personality, interests, skills and values. Get started with Focus 2 Apply and see how it can guide your journey at NC State.

Ag. Careers (<https://www.agcareers.com/>)