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 Iwdavis@ncsu.edu

Plan Requirements

Code	Title H	ours
Orientation		
PO 290	Exploring Opportunities in Poultry Science	2
Communication	IS	
ENG 101	Academic Writing and Research ¹	4
COM 110	Public Speaking	3
or COM 112	Interpersonal Communication	
Select one of the	e 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	s & Business	
ARE 201	Introduction to Agricultural & Resource Economics	3
Business/Financ	e Elective (p. 2)	3
Physical and Biological Science		
MA 107	Precalculus I	3
Select one of the	e following Calculus I courses:	3

BIO 181 Introductory Biology: Ecology, Evolution, and Biodiversity 4 BIO 183 Introductory Biology: Cellular and Molecular Biology 4 BIO 183 Introductory Biology: Cellular and Molecular Biology 4 CH 101 Chemistry - A Molecular Science and General Chemistry Laboratory 1 4 PY 131 Conceptual Physics 4 or PY 211 College Physics I 4 CH 222 and Organic Chemistry I Lab 4 CH 223 Organic Chemistry II Lab 4 CH 201 Chemistry - A Quantitative Science & CH 202 and Organic Chemistry ILaboratory 4 St CH 202 and General Microbiology & MB 351 General Microbiology Laboratory 4 Bio S1 General Microbiology Laboratory 1 4 PO 201 Poultry Science and Production Laboratory 1 2 PO 322 Muscle Foods and Eggs 1 3 3 or PO 433 Poultry Diseases 4 PO 415 Comparative Nutrition 1 4 PO 404 Avian Anatomy and Physiology 1 4 PO 435 Poultry Diseases 4 PO 415 Comparative Nutrition			
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gep-category-requirements/world-language-proficiency/) (verify requirement)	GEP Foundation	s of American Democracy (http://catalog.ncsu.edu/	
	gep-category-red		
Free Electives	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
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 Agribusines	s 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	3
	Economics	
EC 348	Introduction to International Economics	3
MIE 201	Introduction to Business	3

PO/ FM Restricted Electives

Code	Title	Hours
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
BIO 181	Introductory Biology: Ecology, Evolution, and Biodiversity	4
	Hours	17
Spring Semester		
BIO 183	Introductory Biology: Cellular and Molecular Biology	4
COM 110	Public Speaking	3
or COM 112	or Interpersonal Communication	
MA 121 or MA 131	Elements of Calculus or Calculus for Life and Management Sciences A	3
	s (http://catalog.ncsu.edu/undergraduate/	3
	ements/gep-social-sciences/)	
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 (htt category-requirement	p://catalog.ncsu.edu/undergraduate/gep- ts/gep-humanities/)	3
	rcise Studies (http://catalog.ncsu.edu/ ategory-requirements/gep-health-exercise-	1
Free Electives		3
Free Electives	Hours	3 14
Spring Semester	Hours	
	Hours Organic Chemistry I	
Spring Semester		14
Spring Semester CH 221	Organic Chemistry I	14 3
Spring Semester CH 221 CH 222 ST 311 GEP Health and Exe	Organic Chemistry I Organic Chemistry I Lab	14 3 1
Spring Semester CH 221 CH 222 ST 311 GEP Health and Exe undergraduate/gep-o studies/)	Organic Chemistry I Organic Chemistry I Lab Introduction to Statistics rrcise Studies (http://catalog.ncsu.edu/ category-requirements/gep-health-exercise- p://catalog.ncsu.edu/undergraduate/gep-	14 3 1 3
Spring Semester CH 221 CH 222 ST 311 GEP Health and Exe undergraduate/gep-o studies/) GEP Humanities (htt	Organic Chemistry I Organic Chemistry I Lab Introduction to Statistics rrcise Studies (http://catalog.ncsu.edu/ category-requirements/gep-health-exercise- p://catalog.ncsu.edu/undergraduate/gep-	14 3 1 3 1
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Spring Semester CH 221 CH 222 ST 311 GEP Health and Exe undergraduate/gep-o studies/) GEP Humanities (htt category-requirement Free Electives Third Year	Organic Chemistry I Organic Chemistry I Lab Introduction to Statistics rrcise Studies (http://catalog.ncsu.edu/ category-requirements/gep-health-exercise- p://catalog.ncsu.edu/undergraduate/gep- ts/gep-humanities/)	14 3 1 3 1 3 3 3
Spring Semester CH 221 CH 222 ST 311 GEP Health and Exe undergraduate/gep-o studies/) GEP Humanities (htt category-requirement Free Electives Third Year Fall Semester	Organic Chemistry I Organic Chemistry I Lab Introduction to Statistics rrcise Studies (http://catalog.ncsu.edu/ category-requirements/gep-health-exercise- p://catalog.ncsu.edu/undergraduate/gep- ts/gep-humanities/) Hours	14 3 1 3 1 3 3 3 14
Spring Semester CH 221 CH 222 ST 311 GEP Health and Exe undergraduate/gep-o studies/) GEP Humanities (htt category-requirement Free Electives Third Year Fall Semester CH 223	Organic Chemistry I Organic Chemistry I Lab Introduction to Statistics recise Studies (http://catalog.ncsu.edu/ category-requirements/gep-health-exercise- p://catalog.ncsu.edu/undergraduate/gep- ts/gep-humanities/) Hours Organic Chemistry II	14 3 1 3 1 3 3 3 14 3
Spring Semester CH 221 CH 222 ST 311 GEP Health and Exe undergraduate/gep-o studies/) GEP Humanities (htt category-requirement Free Electives Third Year Fall Semester CH 223 CH 224 PO/ANS/FS 322	Organic Chemistry I Organic Chemistry I Lab Introduction to Statistics precise Studies (http://catalog.ncsu.edu/ category-requirements/gep-health-exercise- p://catalog.ncsu.edu/undergraduate/gep- tts/gep-humanities/) Hours Organic Chemistry II Organic Chemistry II Lab Muscle Foods and Eggs ¹	14 3 1 3 1 3 3 14 3 1
Spring Semester CH 221 CH 222 ST 311 GEP Health and Exe undergraduate/gep-ostudies/) GEP Humanities (htt category-requirement Free Electives Third Year Fall Semester CH 223 CH 224 PO/ANS/FS 322 or PO 433	Organic Chemistry I Organic Chemistry I Lab Introduction to Statistics proise Studies (http://catalog.ncsu.edu/ category-requirements/gep-health-exercise- p://catalog.ncsu.edu/undergraduate/gep- tts/gep-humanities/) Hours Organic Chemistry II Organic Chemistry II Lab Muscle Foods and Eggs ¹ or Poultry Processing and Products	14 3 1 3 1 3 3 14 3 1 3
Spring Semester CH 221 CH 222 ST 311 GEP Health and Exe undergraduate/gep-o studies/) GEP Humanities (htt category-requirement Free Electives Third Year Fall Semester CH 223 CH 224 PO/ANS/FS 322 or PO 433 PO/ANS 415 PY 211	Organic Chemistry I Organic Chemistry I Lab Introduction to Statistics ricise Studies (http://catalog.ncsu.edu/ category-requirements/gep-health-exercise- p://catalog.ncsu.edu/undergraduate/gep- ts/gep-humanities/) Hours Organic Chemistry II Organic Chemistry II Organic Chemistry II Lab Muscle Foods and Eggs ¹ or Poultry Processing and Products Comparative Nutrition ¹ College Physics I	14 3 1 3 1 3 3 14 3 1 3 3 3 3
Spring Semester CH 221 CH 222 ST 311 GEP Health and Exe undergraduate/gep-o studies/) GEP Humanities (htt category-requirement Free Electives Third Year Fall Semester CH 223 CH 224 PO/ANS/FS 322 or PO 433 PO/ANS 415 PY 211	Organic Chemistry I Organic Chemistry I Lab Introduction to Statistics precise Studies (http://catalog.ncsu.edu/ category-requirements/gep-health-exercise- p://catalog.ncsu.edu/undergraduate/gep- tts/gep-humanities/) Hours Organic Chemistry II Organic Chemistry II Lab Muscle Foods and Eggs ¹ or Poultry Processing and Products Comparative Nutrition ¹ College Physics I or Conceptual Physics	14 3 1 3 1 3 3 14 3 1 3 3 4
Spring Semester CH 221 CH 222 ST 311 GEP Health and Exe undergraduate/gep-ostudies/) GEP Humanities (htt category-requirement Free Electives Third Year Fall Semester CH 223 CH 224 PO/ANS/FS 322 or PO 433 PO/ANS 415 PY 211 or PY 131	Organic Chemistry I Organic Chemistry I Lab Introduction to Statistics precise Studies (http://catalog.ncsu.edu/ category-requirements/gep-health-exercise- p://catalog.ncsu.edu/undergraduate/gep- tts/gep-humanities/) Hours Organic Chemistry II Organic Chemistry II Lab Muscle Foods and Eggs ¹ or Poultry Processing and Products Comparative Nutrition ¹ College Physics I or Conceptual Physics	14 3 1 3 1 3 3 14 3 1 3 3 4

Select one of the f	ollowing:	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 category-requirem	://catalog.ncsu.edu/undergraduate/gep- ents/)	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
	ary Perspectives (http://catalog.ncsu.edu/ o-category-requirements/gep-interdisciplinary-	3
ACC/ARE/BUS/EC	C Electives (p. 2)	3
	Hours	14
Spring Semester		
PO 435	Poultry Incubation & Breeding ¹	4
PO 401	Poultry Diseases	4
	ary Perspectives (http://catalog.ncsu.edu/ o-category-requirements/gep-interdisciplinary-	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.

Careers

- Live Operations
- Food Safety
- · Sales or Marketing
- · Geneticist, Nutritionist or Veterinarian (with Advance Degrees)
- Research

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/explorecareers/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/)