

POULTRY SCIENCE - BS, INDUSTRY EMPHASIS

Growth of the poultry industry has created the need for scientific, technical and business knowledge in the various fields important to successful poultry production. In few fields of science is an understanding of the basic sciences, nutrition, genetics, physiology, diseases, biotechnology, processing and marketing more rewarding than in the modern, intensive methods of poultry and food production. Students are trained in the necessary background, analytical skills, problem solving and leadership for complex production units, hatcheries, integrated feed mills, processing plants and research laboratories. Rapid industry growth provides many career opportunities for graduates. Students are given two emphasis areas in which to specialize their education toward their selected career goals. The University Core Curriculum courses and the Poultry Science Core courses are required for both emphases. Students then complete a BS degree in either emphasis area by completing the respective emphasis area courses. All students are strongly encouraged to get early and frequent academic counseling which is readily available.

Students completing a BS degree in the industry emphasis find employment with the poultry and food industries in positions such as corporate management, quality assurance, sales or technical support in live production, processing or marketing. Students in this emphasis also get positions with pharmaceutical and equipment companies, with industry trade publications and in various university and public service positions.

Students completing a BS degree in the technical emphasis are prepared for advanced study in biochemistry, nutrition, physiology, molecular genetics, reproduction, processing technology, microbiology or environmental science and for eventual professional employment in research, teaching or public service. This curriculum can be easily tailored to meet the veterinary medicine preprofessional requirements.

Program Requirements

First Year

Fall		Semester Credit Hours
AGEC 105	Introduction to Agricultural Economics	3
BIOL 111 or BIOL 107	Introductory Biology I or Zoology	4
POSC 201	General Avian Science	3
POSC 302	Avian Science Laboratory	1
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)		3

Semester Credit Hours 14

Spring

CHEM 119	Fundamentals of Chemistry I	4
POSC 319	Breeder and Hatchery Management	3
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ¹		3

Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) ¹		3
Mathematics (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics)		3

Semester Credit Hours 16

Second Year

Fall

POSC 308	Avian Anatomy and Physiology	3
POSC 309	Poultry Meat Production	4
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ¹		3
Mathematics (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics)		3
General elective ²		3

Semester Credit Hours 16

Spring

POSC 381	Investigation of Professional Development in Poultry Science	2
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)		3
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) ¹		3
Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science)		3
General elective ²		3

Semester Credit Hours 14

Third Year

Fall

AGEC 314 or ACCT 209	Marketing Agricultural and Food Products or Survey of Accounting Principles	3
ANSC 326/ FSTC 326	Food Bacteriology	3
POSC 326	Commercial Egg Industry	3
POSC 414	Avian Genetics and Breeding	3
POSC 427	Animal Waste Management	3

Semester Credit Hours 15

Spring

CHEM 222	Elements of Organic and Biological Chemistry	3
POSC 429	Advanced Food Bacteriology	4
Select one of the following:		3
ACCT 210	Survey of Managerial and Cost Accounting Principles	
AGEC 340	Agribusiness Management	
AGEC 344	Food and Agricultural Law	
ECON 202	Principles of Economics	
ECON 203	Principles of Economics	
ISTM 209	Business Information Systems Concepts	

MGMT 209	Principles of Business Regulations and Law	
MGMT 309	Survey of Management	
MGMT 311	Legal and Social Environment of Business	
MGMT 312	Commercial Law for Accountants and Managers	
Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science)		3
General elective ²		3
Semester Credit Hours		16
Fourth Year		
Fall		
POSC 405	Egg and Poultry Meat Processing	3
POSC 411	Poultry Nutrition	3
POSC 481	Poultry Science Systems	2
General electives ²		6
Semester Credit Hours		14
Spring		
POSC 406	Poultry Further Processing	4
POSC 412	Poultry Feed Formulation	1
STAT 301 or STAT 302	Introduction to Biometry or Statistical Methods	3
VTPB 334	Poultry Diseases	4
General elective ²		3
Semester Credit Hours		15
Total Semester Credit Hours		120

¹ The Graduation requirements include a requirement for 3 hours of International and Cultural Diversity courses and 3 hours Cultural Discourse (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/>) courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. See academic advisor.

² To be utilized by students to enhance the science and/or business aspects of their undergraduate program.