

Poultry Science (MR)

Master's Degree Requirements

Code	Title	Hours
Required Courses		7
PO 601	Seminar	
PO 685	Master's Supervised Teaching	
ST 511	Statistical Methods For Researchers I	
or ST 512	Statistical Methods For Researchers II	
Elective Courses		23
"Elective Courses" that will be applied to reach 30 credit hours will be determined in conjunction with the faculty advisor. Students may need to take BCH 451 or BCH 553 as pre-requisites to another course.		
Students are encouraged to choose these courses from the "Graduate Elective Courses" listed below		
Total Hours		30

Recommended Graduate Elective Courses

Code	Title	Hours
Students are encouraged to choose from the following courses. This list of electives is not exhaustive. Students can work with their faculty advisor to select electives from other programs that meet their academic goals or that fulfill requirements for a co-major, minor, or graduate certificate:		
BCH 451	Principles of Biochemistry	4
PO 504	Avian Anatomy and Physiology	4
PO 506	Physiological Aspects of Poultry Management	3
PO 510	Poultry Product Safety	3
BSC 514	Studying Animal Behavior	3
PO 515	Comparative Nutrition	3
PO 524	Comparative Endocrinology	3
FM 525	Feed Manufacturing Technology	3
PO 533	Poultry Processing and Products	3
ANS 537	Precision Livestock Farming Systems	3
BCH 553	Biochemistry of Gene Expression	3
FM 560	Feed Mill Operations and Leadership	3
BIO 578	The Physiology of Stress	3
FM 580	Feed and Ingredient Quality Assurance	3
PO 590	Special Problems in Poultry Science	1-3
FM 594	Advanced Feed Mill Practicum	1
PO 620	Special Problems	1-6
FM 706	Vitamin Metabolism	3
IMM 757	Comparative Immunology	3
PO 775	Mineral Metabolism	3
FM 790	Advanced Feed Formulation	3

Plan Requirements

Code	Title	Hours
Required Courses		13
PO 601	Seminar	
PO 620	Special Problems	
PO 685	Master's Supervised Teaching	
ST 511	Statistical Methods For Researchers I	
or ST 512	Statistical Methods For Researchers II	
Professional Development (PLUS) Courses		9-12
Select a minimum of three courses from "Professional Development (PLUS) Courses" listed below		
Elective Courses		14-19
"Elective Courses" that will be applied to reach 36 credit hours will be determined in conjunction with the academic committee		
Students are encouraged to choose these courses from the "Graduate Elective Courses" listed below		
Total Hours		36

Professional Development (PLUS) Courses

Code	Title	Hours
Select a minimum of three courses below:		9-12
AEC 510	Machine Learning Approaches in Biological Sciences	
BAE 455/555	R Coding for Data Management and Analysis	
BAE 565	Environmental and Agricultural Analytics and Modeling	
BAE 578	Circular Approach to Manure Management	
BUS 420	Financial Management of Corporations	
BUS 460	Consumer Behavior	
BUS 461	Channel and Retail Marketing	
BUS 462	Marketing Research	
BUS 464	International Marketing	
BUS 465	Traditional and Digital Brand Promotion	
BUS 467	Product and Brand Management	
BUS 468	Marketing Strategy	
BUS 472	Operations Planning and Control Systems	
BUS 474	Logistics Management	
BUS 475	Purchasing and Supply Management	
BUS 590	Special Topics In Business Management	
COM 521	Communication and Globalization	
COM 527	Seminar in Organizational Conflict Management	
COM 530	Interpersonal Communication in Science and Technology Organizations	
CSC 440	Database Management Systems	
CSC/ST 442	Introduction to Data Science	
CSC 505	Design and Analysis Of Algorithms	
CSC 520	Artificial Intelligence I	
CSC 522/422	Automated Learning and Data Analysis	
CSC 530	Computational Methods for Molecular Biology	
CSC 540	Database Management Concepts and Systems	
CSC 541	Advanced Data Structures	

CSC/ECE 542 Neural Networks and Deep Learning	
FM 460	Feed Mill Operations and Leadership
FS 553/453	Food Laws and Regulations
GIS 532	
MBA 521	Advanced Corporate Finance
MBA 530	Leading People
MBA 541	Supply Management
MBA 542	Supply Chain Logistics
MBA 552	Data Engineering, Management and Warehousing
MBA 555	Product Design and Development
MBA 564	Business Relationship Management
MBA 576	Technology Entrepreneurship and Commercialization I
MBA 586	Legal, Regulatory and Ethical Issues in Life Science Industries
MBA 577	Technology Entrepreneurship and Commercialization II
MBA 610	Special Topics in Business Administration
MEA/GIS 584	Mapping and Analysis Using UAS
MIE 501	Strategic Management Foundations
PS 536	Global Environmental Law and Policy
ST 513	Statistics for Management and Social Sciences I
ST 525	Statistics and Computing for Agricultural Data Science
ST 563	Introduction to Statistical Learning
ST 751	Econometric Methods

Elective Courses

Code	Title	Hours
Students are encouraged to select from the courses below:		
BCH 451	Principles of Biochemistry	4
PO 504	Avian Anatomy and Physiology	4
PO 506	Physiological Aspects of Poultry Management	3
PO 510	Poultry Product Safety	3
PO 515	Comparative Nutrition	3
PO 524	Comparative Endocrinology	3
FM 525	Feed Manufacturing Technology	3
PO 533	Poultry Processing and Products	3
BCH 553	Biochemistry of Gene Expression	3
FM 580	Feed and Ingrdient Quality Assurance	3
PO 590	Special Problems in Poultry Science	1-6
FM 790	Advanced Feed Formulation	3
IMM 757	Comparative Immunology	3

Faculty

Department Head

Frank Siewerdt

Director of Graduate Programs

Kenneth E. Anderson

Department Research Leader

Matthew D. Koci

Department Extension Leader

Adam C. Fahrenholz

Director of Undergraduate Programs

Lynn Worley-Davis

Full Professors

Kenneth E. Anderson

Frank W. Edens

Peter R. Ferket

Jesse Lee Grimes

Hosni Moustafa Hassan

Aaron S. Keiss

Matthew D. Koci

Paul Edward Mozdziak

Edgar Orlando Oviedo-Rondon

Associate Professors

Lisa Bielke

Elaine Bohórquez

Adam C. Fahrenholz

Assistant Professors

Yan Campbell

Michael Vadakekara Joseph

Ramon D. Malheiros

Samuel Mwangi

Allison Pullin

Lin Walker

Lynn Worley-Davis

Research Scholars

Ishab Poudel

Adjunct Faculty

Lawrence Epling

Yewande Fasina

Dinabandu Joardar

Bartosz Kempisty

Michael Martin

Donald R. McIntyre

Basheer Nusairat

Hilary Pavlidis

Rasha Qudsieh

Muquarrab Qureshi

Hugo Romero-Sanchez

Ondulla Tyvette Toomer

Emeritus Faculty

Vern L. Christensen

Patricia A. Curtis

Warren J. Croom Jr.

Jimmy Dale Garlich

Winston Murry Hagler

Gerald B. Havenstein

James N. Petite

Brian W. Sheldon

Jason C. Shih

Thomas David Siopes

Charles Michael Williams

Michael Wineland

AREA SPECIALIZED AGENTS (Affiliate Graduate Faculty)

Marissa Cohen

Mary Helen Fosnaught