

# Poultry Science (MS)

## Degree Requirements

Code	Title	Hours
<b>Required Courses</b>		<b>7</b>
PO 601	Seminar	
PO 685	Master's Supervised Teaching	
ST 511	Statistical Methods For Researchers I	
or ST 512	Statistical Methods For Researchers II	
<b>Graduate Electives / Research Courses</b>		<b>29</b>
Select courses from "Elective Courses" and "Research Courses" listed below to reach 36 credit hours determined in conjunction with the academic committee. Students may need to take BCH 451 or BCH 553 as pre-requisites to another course.		
<b>Total Hours</b>		<b>36</b>

## 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 advisory committee 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
NTR 775	Mineral Metabolism	3
FM 790	Advanced Feed Formulation	3

## Research Courses

Code	Title	Hours
PO 693	Master's Supervised Research	1-9
PO 695	Master's Thesis Research	1-9
PO 699	Master's Thesis Preparation	1-3

## Accelerated Bachelor's/Master's Degree Requirements

The Accelerated Bachelors/Master's (ABM) degree program allows exceptional undergraduate students at NC State an opportunity to complete the requirements for both the Bachelor's and Master's degrees at an accelerated pace. These undergraduate students may double count up to 12 credits and obtain a non-thesis Master's degree in the same field within 12 months of completing the Bachelor's degree, or obtain a thesis-based Master's degree in the same field within 18 months of completing the Bachelor's degree.

This degree program also provides an opportunity for the Directors of Graduate Programs (DGPs) at NC State to recruit rising juniors in their major to their graduate programs. However, permission to pursue an ABM degree program does not guarantee admission to the Graduate School. Admission is contingent on meeting eligibility requirements at the time of entering the graduate program.

## 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

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## Associate Professors

Lisa Bielke

Elaine Bohórquez

Adam C. Fahrenholz

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## Assistant Professors

Yan Campbell

Michael Vadakekara Joseph

Ramon D. Malheiros

Samuel Mwangi

Allison Pullin

Lin Walker

Lynn Worley-Davis

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## Research Scholars

Ishab Poudel

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## 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

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## Emeritus Faculty

Vern L. Christensen

Patricia A. Curtis

Warren J. Croom Jr.

Jimmy Dale Garlich

Winston Murry Hagler

Gerald B. Havenstein

James N. Petitte

Brian W. Sheldon

Jason C. Shih

Thomas David Siopes

Charles Michael Williams

Michael Wineland

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## AREA SPECIALIZED AGENTS (Affiliate Graduate Faculty)

Marissa Cohen

Mary Helen Fosnaught