

Swine Science (Certificate)

The Undergraduate Certificate in Swine Science program is the study of pork production and is available to post-secondary students interested in the pork industry. NCSU Animal Science majors can only complete the certificate by counting the courses to their Free Elective requirements as these courses will not count toward any Animal Science major requirements. The certificate is available via distance education. Students completing the certificate will have knowledge of all aspects of pork production, the pork industry, and factors that impact swine production and management. In addition, the U.S. Polk Center of Excellence located in Des Moines, Iowa will issue a certification of completion which is recognized in the pork industry as proficiency of swine practices.

Student Learning Outcomes

- Have a comprehensive knowledge of pork production and describe where pork production list within the animal agriculture industries in the United States and North Carolina.
- Describe production practices for all phases of production of swine, including the impacts of nutrition, physiology, and genetics on these practices.
- Understand diseases that affect swine and develop programs to eliminate or mitigate their impact.
- Identify key factors impacting the profitability of the pork industry, understand key records that need to be maintained in a production setting, and describe the markets available for swine and pork products.
- Understand the issues of pork production and effectively communicate with various constituencies regarding pork, pork production, and animal agriculture.

Registration Information

Contact the Program Coordinator.

Program Coordinator

Dr. Kenneth L. Esbenshade
Department of Animal Science
Box 7621; 466B Riddick Hall
Raleigh, NC 27695-7621
919.515.9702
kesbensh@ncsu.edu

Academic Structure

Term Effective: 1/2018
Plan Code: 11SWSCCTU/32SWSCCTU
CIP Code: 01.090

Plan Requirements

Code	Title	Hours	Counts towards
ANS 260	Basic Swine Science ¹	2	
ANS 261	Swine Health and Biosecurity	1	

ANS 268	Employee Management for the Swine Industry	1
ANS 269	Internship in the Swine Industry	1
ANS 262	Swine Breeding and Gestation Management	1
ANS 263	Farrowing Management	1
ANS 264	Swine Nursery and Finishing Management	1
ANS 265	Contemporary Issues in the Swine Industry	1
ANS 266	Swine Environment Management	1
ANS 267	Swine Manure and Nutrient Management	1
ANS 270	Pork Export Markets from a Swine Production Perspective	1
ANS 271	Swine Nutrition	1
FM 272	Swine Feed Mill Management	1
ARE 260	Marketing and Risk Management in the Pork Industry	1
Total Hours		15

¹ ANS Students may use suitable substitute approved by certificate coordinator