

## **Illinois Community Colleges**

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# Illinois Central College

## Course Description:

### *AGRI 111 Pork Production:*

This course introduces the student to the pork industry and the basic principles of pork production. The technical and scientific fields of breeding, selecting, feeding, housing and management are studied as they apply to the swine enterprise.

**Swine Production Curriculum:** Swine Production Class Only

## Materials Used:

**Location:** East Peoria, IL

## Contact:

Grant Grebner

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Phone: 309-694-8443

## Website:

<http://www.icc.edu/>

# Joliet Junior College

## Course Descriptions:

### **AGRI 108 Artificial Insemination of Swine:**

Hands-on laboratory work will be used to train people to artificially inseminate swine. In addition to spending time learning the specific insemination technique, management practices to insure a successful program will be presented

### **AGRI 202 - Swine Confinement Management 3-0-3:**

A comprehensive study of swine confinement production, including capitol needs, herd health, waste management, and selection of breeding stock.

## **Swine Production Curriculum:** Associate and Certification

**Materials Used:** Pork Industry Handbook, Purdue University; Various CDs from the Pork Education Resource Center

**Location:** Joliet, IL

## Contact:

Bill Johnson

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Phone: 815-280-2273

## Website:

<http://www.jjc.edu>

# John Wood Community College

## Course Descriptions:

### ***SWC 150 - Computers in Swine Business:***

An overview of the various facets of pork production systems currently available. Particular emphasis is given to computer usage and software used in swine production systems. An introduction to word processing, spreadsheet applications, Pig Champ, and the Internet is given.

### ***SWC 152 - Swine Management I:***

Covers factors used to select and manage a breeding herd. Emphasis on the skills and practices necessary for maximizing reproductive performance in confinement. The course includes choosing replacement females, selecting boars, crossbreeding, artificial insemination, pen and hand breeding, and genetics. Covers the science and reasoning behind the application of the above topics.

### ***SWC 154 - Animal Diseases and Health:***

An opportunity for the student to examine the cause, nature, and methods of control for a variety of health problems related to the production of animals. Such problems as internal and external parasites, scours, M.M.A., pseudorabies and atrophic rhinitis are discussed.

## **Swine Production Curriculum:** Associate and Certification

## Materials Used:

**Location:**Quincy, IL

## Contact:

Jeff Galle

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Phone: 217-236-4711 or 217-641-4558

## Website:

<http://www.jwcc.edu/instruct/agriculture/default.asp>

# Lake Land Community College

## Course Descriptions:

### ***AGR 070 Swine Production Skills-***

Prepares students with the necessary skills required in modern swine production, the different methods and tools used to perform these skills, understanding herd health, and looking at and making swine environmental decisions.

### ***AGR 071- Swine Reproduction/ A.I.-***

Trains individuals to understand reproductive physiology, semen collection and artificial insemination.

### ***AGR 072- Swine Herd Health Management-***

Prepares students to better manage, diagnose and treat common swine health problems caused by viruses, bacteria and parasites. Topics will include respiratory and reproductive diseases, parasites, disease prevention and diagnosis, and the future of swine

### ***AGR 073- Swine Production Systems-***

Designed to give swine-interested students a working knowledge of various swine production facilities. Discussion topics will include housing and housing ventilation, waste management, employee safety and EPA regulations affecting the swine industry

### ***AGR 074- Swine Facility Maint/Repair-***

Provides students with an extensive knowledge of facility maintenance and repair as it relates with modern swine facilities. Discussion topics include the maintenance and repair of various equipment used in swine facilities with labs providing hands-on experience

### ***AGR 075- Swine Herd Management-***

Focuses on the introduction of swine breeding and selection and the various stages of herd management. These stages include breeding and gestation management, parturition, farrowing and nursery management, growing and finishing management, and swine mark

### ***AGR 076- Swine Nutrition-***

Provides the general study of feedstuffs, feeding and the digestive system. Students will increase their working knowledge of ration formulation, nutritional requirements of swine at different stages of growth and development including breeding, gestation, and farrowing.

### ***AGR 077- Swine Records/Bus Analysis-***

Provides students with an extensive background in swine record-keeping and analysis of swine data. Computer software package use will entail a large portion of the class including use of PIG CHAMP, STAGES, HERDSMAN and PIGS Record-keeping Systems.

## **Swine Production Curriculum:** Associate and Certification

**Location:**Mattoon, IL

## **Contact:**

**John Althaus**

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**Phone:** 217-234-5360

## **Website:**

<http://www.lakeland.cc.il.us/models/crtlvst.htm>

# Ellsworth Community College

## Course Descriptions:

### ***AGS 505 Swine Unit Maintenance (1 credit)***

COURSE DESCRIPTION: This course will develop the skills and knowledge necessary for maintenance of swine equipment and buildings: Ventilation equipment, feed systems, emergency backups, heaters, water medicator maintenance and adjustment, power washer safety and operation and manure handling equipment.

### ***AGS 225 Swine Production (3 credits)***

COURSE DESCRIPTION: This course instructs the student in day-to-day management of swine operations with emphasis on breeding, farrowing, nursery and finishing management. The structure of the swine industry will also be examined with an interpretation of the future based on current trends. The student will also attain PQA Plus Certification and TQA Certification.

### ***AGS 946 Swine Management Seminar (1 credit)***

COURSE DESCRIPTION: Bring together the knowledge and skills students have obtained for application in future positions in the swine industry. Discuss cooperative field experiences and utilize media to explore other swine industry opportunities.

### ***AGS 510 Swine Housing Systems (2 credits)***

COURSE DESCRIPTION: This course introduces the student to the different types of swine housing systems. Open-air and mechanically ventilated systems will be explored and evaluated for all stages of pig production. Different systems will be analyzed in class and on-site. Environmental considerations such as space allotment, temperature control, ventilation and other aspects of pig comfort are studied.

### ***AGA 159 Livestock Nutrient Management (2 credits)***

COURSE DESCRIPTION: This course instructs the student in proper management and utilization of livestock nutrients (by-products). Odor control, collection and storage alternatives, nutrient values, application rates and techniques will be studied. Construction and size requirements of storage facilities will be explored through facility planning and design projects.

### ***AGS 515 Swine Management Skills (1 credit)***

COURSE DESCRIPTION: This course provides the student with a hands-on introduction to some of the manual skills necessary in swine handling and management. Includes baby pig processing, health assessments, farrowing management, breeding management, feeding methods, loading, unloading, sorting, grading and handling techniques.

### ***AGS 520 Swine Records and Analysis (3 credits)***

COURSE DESCRIPTION: Keeping specialized swine records, calculating swine efficiency records, analyzing of records, using records for planning purposes, analytical tools for evaluating profitability and feasibility of swine operations

### ***AGS 907 Coop Field Experience: Swine Management (4 credits)***

COURSE DESCRIPTION: Gain practical knowledge through training in a unit or swine-related industry; required skills training list to be completed. Work under the direction of a supervisor.

## **Swine Production Curriculum:** Associate and Certification

**Location:** Iowa Falls, IA

**Contact:**

Patrick Hosch

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**Website:**

<http://www.iavalley.edu/ecc/>

# Hawkeye Community College

## Course Description:

AGS 225 - This course provides an understanding of the principles involved with comprehensive swine management; selection marketing. Emphasis will be placed on business aspects, production systems, facilities, health, record systems, and analysis. Field trips and guest speakers will be included. Hands-on training will be included through the swine-teaching herd.

**Materials Used:** ISU extension material and a variety of internet information

**Swine Production Curriculum:** Swine production classes only

**Location:** Waterloo, IA

## Contact:

Ole Cleveland

Animal Science Instructor

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Animal Science Instructor

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Phone: 319-296-2329 x1084

## Website:

[www.hawkeyecollege.edu](http://www.hawkeyecollege.edu)

# Iowa Lakes Community College

## Course Descriptions:

### ***AGS-400 Swine Production I, 2 cr.***

A study of various aspects of swine production followed by in-depth units on farrowing management and production skills and techniques.

### ***AGS-510 Swine Confinement Systems, 2 cr.***

Course deals with swine management concerns in confinement operations.

### ***AGS-511 Advanced Swine Confinement Mgt, 2 cr.***

Basic introduction to swine confinement systems and management, including operation of equipment, ventilation systems and record keeping.

### ***AGS-520 Swine Records & Analysis, 3 cr.***

Feeding, nutrition, diseases, marketing and economic principles of swine production.

### ***AGS-522 Swine Grower/Finisher Management, 2 cr.***

Basic swine production skills and theory including nutrition, feeding, feed budgeting and feed handling, and general swine management practices to achieve successful grower-finisher and wean-to-finish management.

### ***AGS-529 Swine Reproduction & Mgmt, 2 cr.***

Provides an in-depth background for utilizing basic swine management principles

### ***AGS-565 Farm Enterprise Swine Tech, 1 cr.***

A hands on lab were students gain skills in basic production practices needed in the swine life cycle. (Breeding, farrowing, nursery and finishing)

### ***AGS-566 Farm Enterprise Swine Management, 1 cr.***

A hands on lab were students gain skills needed to effectively manage Technician level employees. Also includes production record data input, records analysis and development of work lists to manage the swine operation

**Swine Production Curriculum:** Associate and Certification

**Location:** Algona, Esterville, Emmetsburg,- IA

### **Contact:**

Kristin Hammen

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### **Website:**

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# Kirkwood Community College

## Course Descriptions:

### **AGS 225 - Swine Science:**

Instruction on current practices and strategies needed to profitably produce food animals. Lab exercises provide hands-on exposure to management decisions involved in pork production

### **AGC 425 - Swine Systems Management:**

Instruction on the development of a complete business plan for a swine production system outlined by the student. Lab exercises concerning management decisions involved in pork production

## Swine Production Curriculum: Associate

**Location:** Cedar Rapids, IA

## Contact:

Rich Rourke

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Phone: 319-398-4900

## Website:

<http://www.kirkwood.edu/site/index.php?d=497>

# Muscatine Community College, Eastern Iowa Community College District

## Course Descriptions:

### **AGS 400 - Swine Production 1 -**

First of two courses that together provide a basic foundation for someone planning to operate a profitable swine enterprise. Swine facilities of all types are analyzed with special emphasis on the economic, social, environmental and physical demands of sustainability. Included are the fundamentals of swine care, selection, breeding and reproductive management as well as disease prevention and control.

### **AGS 410 - Swine Production 2:**

Continuation of AGS 400 with emphasis on production systems and swine nutrition. Major course objectives include human resource and environmental management, grow and finish production phases and the economic and financial considerations of an enterprise.

## **Swine Production Curriculum:** Certification and Specialization

**Materials Used:** Pork Industry Handbook, Purdue University; Pig Production. Biological Principles and Applications, McGlone and Pond, Thompson-Delmar Learning; Improving Your Ability to Compete in the Pork Industry, cd and dvd series Programs 1-4 and multiple Volumes. Pork Checkoff Information Gateway cd series: 1) Swine Welfare Assurance Program 2) Quality Assurance 3) Effective Handling 4) Breeding and Gestation Management 5) Farrowing Management 6) Segregated Early Weaning 7) Grower-Finisher Management 8) On-farm Euthanasia of Swine

**Location:** Muscatine, IA

## **Contact:**

Bill Parli

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Phone: 563-288-6018

or

Paul Martin

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Phone: 563-288-6019

## **Website:**

<http://web.eicc.edu/mcc/ag/index.html>

# Barton County Community College

## Course Description:

### **AGRI 6122 - Swine Production:**

Application of basic scientific principles to the production of pork. Recommendations are made in breeding, reproduction, nutrition, health, housing, marketing and general overall management of swine production units of varying sizes.

**Swine Production Curriculum:** Swine production class only

**Materials Used:** Pork Industry Hand Book - Kansas State University

**Location:** Great Bend, KS

## Contact:

Stephen L. Portoff

Instructor

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Phone: 620-792-9207

## Website:

<http://www.bartonccc.edu/agriculture/>

# Cloud County Community College

## Course Description:

### **AG 124 Swine Science (2)-**

Is a study of the basic principles of animal agriculture specifically related to the swine industry. Prerequisite: Animal Science

**Swine Production Curriculum:** Swine Production Class Only

**Location:** Concordia, KS

## Contact:

Bill McGuire

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Phone: 785-243-1435

## Website:

<http://www.cloud.edu/>

# North Central Missouri Community College

## Course Description:

### ***AG 109 Pork Production and Management 3 credits***

A study of management decisions related to the breeding, feeding, marketing and management of commercial and purebred swine. (DD)

**Swine Production Curriculum:** Swine production class only

**Location:** Trenton, MO

## Contact:

David Nowland

Instructor

Email: [dnowland@mail.ncmissouri.edu](mailto:dnowland@mail.ncmissouri.edu)

Phone: 620-792-9207

## Website:

[http://www.ncmissouri.edu/programs/course\\_descriptions/a-g.htm#Agric](http://www.ncmissouri.edu/programs/course_descriptions/a-g.htm#Agric)

# Northeast Community College

## Course Description:

### *AGRI 2280 Swine Production Management.... 2*

A study of the role of swine in the world and their functions. Methods of establishing a swine enterprise through selection and performance testing are also studied. Management as a factor in the cost and efficiency of production is given special attention. The importance of feed costs, nutrient requirements of swine, and processing of feeds are also demonstrated.

**Swine Production Curriculum:** Swine production class only

**Location:** Norfolk, NE

## Contact:

Mike Roeber

Instructor

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Phone: 402-844-7183

## Website:

[www.northeast.edu](http://www.northeast.edu)

# Southeast Community College

## Course Description:

### *AGRI2254 Advanced Swine Production*

Prerequisite: AGRI1141. Study of profitable swine production. Consolidates swine production, marketing, meat processing and sales to consumers of pork products.

**Swine Production Curriculum:** Swine production class and specialization

**Location:** Beatrice, NE

## Contact:

Jeff Jensby

Email: [jjensby@southeast.edu](mailto:jjensby@southeast.edu)

Phone: 402-228-8206

## Website:

<http://www.southeast.edu/>

# James Sprunt Community College

## Course Descriptions:

### ***ANS 140: Swine Production -***

This course provides an introduction to the swine industry. Topics include basic skills for breeding, farrowing, nursery, and grower/finisher. Upon completion, students should be able to demonstrate a basic understanding of swine production practices and the economic impact of the swine industry in North Carolina.

### ***ANS 142: Swine Records & Analysis -***

This course introduces production records utilized by the swine industry. Topics include types of records needed, establishing production goals, calculating production efficiencies, understanding computer applications in record keeping, and interpreting production data. Upon completion, students should be able to establish production goals, calculate production efficiencies, complete a production summary, and interpret data from computer printouts.

### ***ANS 143: Swine Health Management -***

This course covers all aspects of swine disease and health management. Emphasis is placed on disease identification and treatment, biosecurity and herd health plans, routine swine health practices, and laws and regulations applying to swine. Upon completion, students should be able to identify and recommend treatment for major diseases, develop a herd health plan, and describe the appropriate uses for medications.

### ***ANS 144: Swine Housing & Waste Management -***

This course includes the areas of swine waste management and confinement facilities for swine. Emphasis is placed on types of waste management systems, types of building systems used, and managing the internal environment in confinement buildings. Upon completion, students should be able to identify types of waste systems used, determine waste application rates, and identify types of housing and ventilation systems.

**Swine Production Curriculum:** Swine production class, Certification and Specialization

**Materials Used:** Pig Production: Biological Principles & Applications. John McGlone & Wilson Pond. NPB Breeding, Farrowing and Nursery Management CDs; An Outline of Swine Diseases: A Handbook, 2nd ed. Cowart & Casteel; Factsheets from National Pork Board website on biosecurity and various diseases; North Carolina Animal Waste Operator Manual; Swine Housing & Equipment Handbook, Midwest Plan Service MWPS-8; Mechanical Ventilating Systems for Livestock Housing, MWPS-32; PigChamp Program

**Location:** Kenansville, NC

## Contact:

Nicole Thompson

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## Website:

<http://www.jamesprunt.edu/>

# Sampson Community College

## Course Descriptions:

### ***ANS 140 Swine Production 2 2 3***

Prerequisites: None

Corequisites: None

This course provides an introduction to the swine industry. Topics include basic skills for breeding, farrowing, nursery, and grower/finisher. Upon completion, students should be able to demonstrate a basic understanding of swine production practices and the economic impact of the swine industry in North Carolina.

### ***ANS 141 Swine Herd Management 2 0 2***

Prerequisites: None

Corequisites: None

This course is designed to expand topics covered in ANS 140. Emphasis is placed on management techniques as they relate to breeding, farrowing, nursery, and grower/finisher. Upon completion, students should be able to analyze and respond to management and production problems as they occur on the farm.

**Swine Production Curriculum:** Swine production class, Associate, Certification and Specialization

**Materials Used:** Pork Industry Handbook, Purdue University; Pig Production by McGlone and Pond

**Location:** Clinton, NC

## Contact:

Steve Mathis

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## Website:

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# Wayne Community College

## Course Descriptions:

### ***ANS 140 Swine Production***

Prerequisite: None Corequisite: None

This course provides an introduction to the swine industry. Topics include basic skills for breeding, farrowing, nursery, and grower/finisher. Upon completion, students should be able to demonstrate a basic understanding of swine production practices and the economic impact of the swine industry in North Carolina. (Sp.)

### ***ANS 141 Swine Herd Management***

Prerequisite: ANS 140 Corequisite: None

This course is designed to expand topics covered in ANS 140. Emphasis is placed on management techniques as they relate to breeding, farrowing, nursery, and grower/finisher. Upon completion, students should be able to analyze and respond to management and production problems as they occur on the farm. (F.)

### ***ANS 160 Animal Waste Management***

Prereq: None

This course introduces proper animal waste management. Emphasis is placed on waste management practices, environmental laws and issues relating to animal waste, soil and water conservation, and dead animal disposal. Upon completion, students should be able to calculate proper application rates, apply best management practices, and identify methods of animal waste collection, storage, and utilization

**Swine Production Curriculum:** swine production class only

**Materials Used:** Certified Training for Operators of Animal Waste Management Systems North Carolina Cooperative Extension; Swine Science, Ensminger and Parker: Seventh Edition, ISBN 0-13-113461-2;

**Location:** Goldsboro, NC

## Contact:

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