

COURSE IMPLEMENTATION DATE:	September 1982
COURSE REVISED IMPLEMENTATION DATE:	September 2008
COURSE TO BE REVIEWED:	March 2011
(Four years after UPAC final approval date)	(MONTH YEAR)

OFFICIAL COURSE OUTLINE INFORMATION

Students are advised to keep course outlines in personal files for future use.

Shaded headings are subject to change at the discretion of the department and the material will vary - see course syllabus available from instructor

FACULTY/DEPARTMENT:	Science, Health and Human Services - Agriculture Technology	
AGRI 138		3
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS
	Swine Production	
COURSE DESCRIPTIVE TITLE		

CALENDAR DESCRIPTION:

This course covers feeding, breeding, and management for commercial and purebred swine operations. Topics include production, marketing, facilities, equipment, swine herd health, and genetics. Students will be required to participate in the care of departmental livestock outside of regular class hours. Field trips are required; Saturday field trips will be held in conjunction with other Agriculture Department courses to provide students with an integrated overview of agriculture in British Columbia. This course is only offered in even-numbered years.

PREREQUISITES: **None**
COREQUISITES: **None**

SYNONYMOUS COURSE(S)	SERVICE COURSE TO:
(a) Replaces: _____ (Course #)	_____
(b) Cannot take: _____ for further credit. (Course #)	_____

TOTAL HOURS PER TERM: 90	TRAINING DAY-BASED INSTRUCTION
STRUCTURE OF HOURS:	LENGTH OF COURSE: _____
Lectures: 60 Hrs	HOURS PER DAY: _____
Seminar: _____ Hrs	
Laboratory: _____ Hrs	
Field Experience: 30 Hrs	
Student Directed Learning: _____ Hrs	
Other (Specify): _____ Hrs	

MAXIMUM ENROLLMENT:	25
EXPECTED FREQUENCY OF COURSE OFFERINGS:	Once every two years, in even-numbered years, Fall semester
WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

AUTHORIZATION SIGNATURES:

Course Designer(s): _____ Paul Gumprich	Chairperson: _____ Norma Senn (<i>Curriculum Committee</i>)
Department Head: _____ Norma Senn	Dean: _____ Wanda Gordon
UPAC Approval in Principle Date: _____	UPAC Final Approval Date: _____

LEARNING OBJECTIVES / GOALS / OUTCOMES / LEARNING OUTCOMES:

Participants who successfully complete AGRI 138 will be able to do the following and apply it to practical swine farm management:

- describe the Canadian and BC swine industry
- describe swine price cycles
- explain swine marketing and make the best economic decisions for the farm

Describe the proper use of records and analysis

- describe different record keeping systems
- explain the use of records
- describe how to analyze said records

Describe the breeding and selection of swine

- know and identify different breeds of pigs
- describe the principles of genetic improvement
- describe the different mating systems of swine
- understand and explain the reproductive cycle of the sow

Explain the basic concepts of nutrition

- describe the pig's digestive system
- explain and produce practical rations
- produce practical feeding programs

Describe swine management

- sow management
- gilt management
- boar management
- piglet management
- feeder management

METHODS:

Lectures, field trips to farms and agribusinesses related to swine production, group work.

Class participation/barn duties include:

- looking after department animals: feeding, cleaning, observation.
- participating in livestock handling (processing the animals) during class hours.
- asking questions on field trips and during guest lectures.
- introducing and thanking guest speakers and field trip hosts.

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Credit can be awarded for this course through PLAR (Please check:) Yes No

METHODS OF OBTAINING PLAR:

Challenge exam, Green Certificate in Swine Production, articulated agreements.

TEXTBOOKS, REFERENCES, MATERIALS:

[Textbook selection varies by instructor. An example of texts for this course might be:]

Swine Science - Ensminger
The Growing and Finishing Pig - English, Fowler, Baxter and Smith
Swine Nutrition Guide - Patience and Thacker

SUPPLIES / MATERIALS:

Coveralls, boots, calculator, notebook, transportation to field trips.

STUDENT EVALUATION:

[An example of student evaluation for this course might be:]

10 quizzes - 50%
Final exam - 30%
Class participation/barn duties - 20%
Application of course principles through the assigned and mentored care of department livestock. Attendance will be taken.

COURSE CONTENT:

[Course content varies by instructor. An example of course content might be:]

Swine production

- Introduction
- The swine industry
- The hog cycle
- Marketing hogs
- Principles of profitable swine production

Breeding and selection

- Swine breeds review
- Swine breeding terms
- Principles of genetic improvement
- Mating systems
- Herd improvement programs
- Record keeping
- Reproduction in the sow and boar
- Estrous cycle
- Fertilization, gestation, parturition, lactation, and fertility

Nutrition

- Basic concepts
- Digestion and absorption of nutrients
- Major nutrients
- Sources of nutrients
- Formulating and feeding practical rations

Facilities

- Housing and handling

Management

- Sow management
- Gilt management
- Boar management
- Piglet management
- Feeder pig management

Health and diseases

- Reproductive diseases
- Diseases of piglets
- Non-infectious diseases
- Infectious diseases
- Insect pests
- Herd health programs