

OFFICIAL UNDERGRADUATE COURSE OUTLINE (page 1)

COURSE IMPLEMENTATION DATE: September 2009
 COURSE REVISED IMPLEMENTATION DATE: _____
 COURSE TO BE REVIEWED: February 2013
(four years after UPAC approval) (month, year)

OFFICIAL UNDERGRADUATE 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 – see course syllabus available from instructor

AGRI 256	Trades and Technology - Agriculture Technology	3
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UCFV CREDITS
	Management and Production of Poultry and Swine	
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. This course will also cover the poultry industry in Canada, mainly in the Fraser Valley at the farm level.

The basics of feeding, breeding, and management of different types of poultry will also be covered. Students will be required to participate in the care of departmental livestock outside of regular class hours. Field trips are required.

PREREQUISITES: None
 COREQUISITES: None
 PRE or COREQUISITES:

SYNONYMOUS COURSE(S):

- (a) Replaces: **AGRI 139**
 (b) Cross-listed with: _____
 (c) Cannot take: _____ for further credit.

SERVICE COURSE TO: *(department/program)*

TOTAL HOURS PER TERM: 50

STRUCTURE OF HOURS:
 Lectures: 39 Hrs
 Seminar: _____ Hrs
 Laboratory: 6 Hrs
 Field experience: 5 Hrs
 Student directed learning: _____ Hrs
 Other (specify): _____ Hrs

TRAINING DAY-BASED INSTRUCTION:

Length of course: _____
 Hours per day: _____

OTHER:

Maximum enrolment: 25
 Expected frequency of course offerings: Annually
(every semester, annually, every other year, etc.)

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only) Yes No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department) Yes No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE: Yes No

Course designer(s): <u>Paul Gumprich</u>	Date approved: _____
Department Head: <u>Rose Morrison</u>	Date of meeting: <u>January 30, 2009</u>
Supporting area consultation (UPACA1)	Date approved: <u>February 2009</u>
Curriculum Committee chair: <u>Rose Morrison</u>	Date approved: <u>February 2009</u>
Dean/Associate VP: <u>Harv McCullough</u>	Date of meeting: <u>February 27, 2009</u>
Undergraduate Program Advisory Committee (UPAC) approval	

LEARNING OUTCOMES:

Upon successful completion of this course, students will be able to:

Describe the Canadian and BC swine industry

- describe swine price cycles
- explain swine marketing and make the best economic descisions 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

Know the basics of raising and working with the various classes of poultry

Understand the marketing system in Canada

Understand the important aspects of raising poultry to meet consumer acceptance

Describe on-farm food safety as it relates to the poultry industry.

METHODS: *(Guest lecturers, presentations, online instruction, field trips, etc.)*

Lectures, field trips to farms and agribusinesses related to swine & poultry 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.

METHODS OF OBTAINING PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Examination(s) Portfolio assessment Interview(s)

Other (specify):

PLAR cannot be awarded for this course for the following reason(s):

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

Poultry Production 12th edition

Poultry Nutrition Handbook

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.

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

The Poultry Industry – local, B.C., Canadian, world

- marketing poultry in Canada

Poultry sectors – broilers, broiler breeders, layers (table eggs), turkeys, ducks and geese, other poultry species

Biology of the fowl – Skeletal, musculature, digestive system, reproductive system

Poultry breeding and genetics – an overview

Principles of poultry nutrition – nutrient requirements by species, actual feeding and feedstuffs, feeding equipment

Brooding and rearing

Diseases and parasites – treatments, prevention, various diseases

Hatchery management – production cycles of various species

Included in each section is a subsection (or a comparison) of organic production methods