UCFV
UNIVERSITY COLLEGE of the FRASER VALLEY

OFFICIAL UNDERGRADUATE COURSE OUTLINE (page 1)

COURSE IMPLEMENTATION DATE: September 2008
COURSE REVISED IMPLEMENTATION DATE:
COURSE TO BE REVIEWED: February 2012
(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 139	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 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 138, AGRI 236**
(b) Cross-listed with:
(c) Cannot take: for further credit.

SERVICE COURSE TO: *(department/program)*

TOTAL HOURS PER TERM: **70**

STRUCTURE OF HOURS:

Lectures:	**40**	Hrs
Seminar:		Hrs
Laboratory:	**10**	Hrs
Field experience:	**10**	Hrs
Student directed learning:	**10**	Hrs
Other (specify):		Hrs

TRAINING DAY-BASED INSTRUCTION:
Length of course:
Hours per day:

OTHER:
Maximum enrolment: **25**
Expected frequency of course offerings: Every other year
(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): **Paul Gumprich**
Department Head: **Rose Morrison** Date approved: **January 2008**
Supporting area consultation (UPACA1) Date of meeting: **January 18, 2008**
Curriculum Committee chair: **Rose Morrison** Date approved: **January 2008**
Dean/Associate VP: **Harv McCullough** Date approved: **March 6, 2008**
Undergraduate Program Advisory Committee (UPAC) approval Date of meeting: **February 1, 2008**

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): Green Certificate in Swine Production, articulated agreements

☐ 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
Commercial Chicken Production Manual
Poultry Breeding and Genetics
BC Chicken Marketing Regulations

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