UNIVERSITY COLLEGE of the FRASER VALLEY

COURSE IMPLEMENTATION DATE: September 1987
COURSE REVISED IMPLEMENTATION DATE: January 2009
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 222		**3**
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS

Vegetable Crop Production
COURSE DESCRIPTIVE TITLE

CALENDAR DESCRIPTION:

Field production of commonly grown vegetable crops in British Columbia will be discussed. Topics include site selection as influenced by environmental and economic conditions, field preparation, variety selection, and cultivation practices. The culture of mushrooms and ginseng are covered as an essential part of the course. Field trips may be required outside regular class hours, including Saturdays. 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. Students should budget approximately $40 for field trips. This course is only offered in a traditional classroom format in even-numbered years, but may be taken online at other times.

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

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

SERVICE COURSE TO:
_____ *(Department/Program)*
_____ *(Department/Program)*

TOTAL HOURS PER TERM: **80**
STRUCTURE OF HOURS:

Lectures:	**45**	Hrs
Seminar:		Hrs
Laboratory:		Hrs
Field Experience:	**15**	Hrs
Student Directed Learning:	**20**	Hrs
Other (Specify):		Hrs

TRAINING DAY-BASED INSTRUCTION
LENGTH OF COURSE: _____
HOURS PER DAY: _____

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

AUTHORIZATION SIGNATURES:

Course Designer(s): Tom Baumann
Chairperson: Norma Senn *(Curriculum Committee)*
Department Head: Norma Senn
Dean: Harv McCullough
UPAC Approval in Principle Date:
UPAC Final Approval Date: May 23, 2008

LEARNING OBJECTIVES / GOALS / OUTCOMES / LEARNING OUTCOMES:

Upon successful completion of this course, students will be able to describe the general background requirements needed to grow a wide variety of vegetable crops and be able to apply this knowledge to the specific vegetable crops of economic importance to British Columbia.

At the end of the course, successful students will be able to:
- describe the preparatory work toward selecting a suitable site
- describe how to prepare the land and amend and improve it according to soil and other tests performed
- describe where and how to order plant material (selecting appropriate varieties)
- plant and implement a support structure where needed
- identify major weeds, diseases, and pests of the respective crops
- recommend appropriate fertilizer and application methodology
- describe general cultivation of the crop
- estimate yields
- describe when and how to properly harvest and market the most important vegetable crops in British Columbia
- describe post harvest procedures for each crop

METHODS:

Lectures, slides and video, problem solving, term paper in specific format, field tours, growers and specialists as guests, online supplementary course materials, and discussion groups. A major all day field trip in early September will give the student a broad overview of field production.

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

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

METHODS OF OBTAINING PLAR:

Challenge exam as well as critiquing a scientific paper related to vegetable crops will be used; articulated agreements.

TEXTBOOKS, REFERENCES, MATERIALS:

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

Required: BC Vegetable Guide for Commercial Growers - latest edition
References:
Knotts Handbook for Vegetable Growers by O.A. Lorenz and D.N. Maynard ISBN: 0471053228

SUPPLIES / MATERIALS:

Approximately $40 to cover field trips, appropriate clothing for field tours, field notebook, calculator.

STUDENT EVALUATION:

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

Assignment - 20%
Midterm - 40%
Final exam - 40%

COURSE CONTENT:

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

A. There will be a MANDATORY all day Saturday field trip. Information from this field trip will be examinable.

B. Background information for a variety of selected crops:

- site selection and preparation
- techniques and transplants
- irrigation systems
- climate
- propagation and culture from propagule to harvest, quotas

C. Crops selected from the following list, as time permits:

- potatoes
- tomatoes
- peppers
- sweet corn
- carrots
- cole crops
- onions
- garlic
- mushrooms
- ginseng

The following topics will be covered for each crop (which stands as an example for an entire group of crops):

- field preparation
- propagation
- planting
- crop timing
- disease, insect, and weed control
- harvest procedures and post-harvest handling