UNIVERSITY OF THE FRASER VALLEY

OFFICIAL UNDERGRADUATE COURSE OUTLINE (page 1)

COURSE IMPLEMENTATION DATE: September 2012
COURSE REVISED IMPLEMENTATION DATE:
COURSE TO BE REVIEWED: August 2018
(six years after UEC 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 490	**Agriculture Technology**	3
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UFV CREDITS

Directed Studies in Agriculture
COURSE DESCRIPTIVE TITLE

CALENDAR DESCRIPTION:

Under the guidance of one of the agriculture faculty members, students may pursue an advanced research project in agriculture. Regular reports will be required as the project develops, and a final written report must be presented to the supervising faculty member.

Note: Students are expected to perform at a higher level for this course than for AGRI 390.

PREREQUISITES: 60 credits that apply to an Agriculture program, a minimum overall GPA of 2.5, and instructor's permission.
COREQUISITES:
PRE or COREQUISITES:

SYNONYMOUS COURSE(S):
(a) Replaces:
(b) Cross-listed with:
(c) Cannot take: for further credit.

SERVICE COURSE TO: *(department/program)*

TOTAL HOURS PER TERM: 45

STRUCTURE OF HOURS:

Lectures:		Hrs
Seminar:		Hrs
Laboratory:		Hrs
Field experience:		Hrs
Student directed learning:	35	Hrs
Other (specify): faculty interact	10	Hrs

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

OTHER:
Maximum enrolment: 5
Expected frequency of course offerings: yearly
(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):	**Tom Baumann**		
Department Directo	**Rolf Arnold**	Date approved:	**June 2012**
Supporting area consultation		Date of meeting:	**June 15, 2012**
Curriculum Committee chair:		Date approved:	**August 8, 2012**
Dean/Associate VP:	**John English**	Date approved:	**August 9, 2012**
Undergraduate Education Committee (UEC) approval		Date of meeting:	**August 24, 2012**

LEARNING OUTCOMES:

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

1. outline project selected in consultation with faculty
2. describe the usefulness of field/lab/greenhouse or literature work
3. plan and implement a research plan
4. apply the science background (biology, physics, chemistry) to specific designs and crops
5. design and describe appropriate experimental design and statistical treatments
6. compare and contrast null hypothesis vs. alternate hypothesis
7. identify problem areas and seek help to solve them
8. propose appropriate methodology
9. determine appropriate timing for research work
10. present outcomes of research in literature background

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

Problem solving exercises, field/greenhouse/library work, consultation with industry specialists.

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:]

Required: outline, provided readings by instructor
Reading (in library): statistics guides, guides to writing a scientific publication (ASHS example in writing centre inn Chilliw

SUPPLIES / MATERIALS:

As needed expenses for physical experimentation in lab, greenhouse, nursery or field.

STUDENT EVALUATION:

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

Planning of research project	20%
Layout and execution of trials	40%
Reading of provided materials	10%
Written report in scientific format	30%

COURSE CONTENT:

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

Varies greatly with project objectives:

1. Outline
2. Project objectives and design
3. Execution of trials/search
4. Scientific paper written
5. Problem solving
6. Debriefing