UNIVERSITY COLLEGE of the FRASER VALLEY

COURSE IMPLEMENTATION DATE:	September 1987
COURSE REVISED IMPLEMENTATION DATE:	January 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**

COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS
AGRI 228		**2**

Forage Crop Production
COURSE DESCRIPTIVE TITLE

CALENDAR DESCRIPTION:

The production and use of commonly grown forage crops will be covered. Topics include forage establishment, maintenance, harvest, and storage. Emphasis will be on maximizing the use of homegrown forages to meet the nutritional requirements of today's high-producing animals.

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: **60**

STRUCTURE OF HOURS:

Lectures:	**30**	Hrs
Seminar:		Hrs
Laboratory:	**20**	Hrs
Field Experience:	**10**	Hrs
Student Directed Learning:		Hrs
Other (Specify):		Hrs

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

MAXIMUM ENROLLMENT: **25**
EXPECTED FREQUENCY OF COURSE OFFERINGS: **Once a year, Winter 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): Paul Gumprich
Chairperson: Norma Senn *(Curriculum Committee)*
Department Head: Norma Senn
Dean: Wanda Gordon
UPAC Approval in Principle Date:
UPAC Final Approval Date: Mar. 30, 2007

LEARNING OBJECTIVES / GOALS / OUTCOMES / LEARNING OUTCOMES:

Upon successful competion of this course, students will be able to:
- describe the differences between legumes and grasses
- identify different grasses commonly grown in the Fraser Valley
- match a variety of appropriate species to individual site locations
- describe how to establish a forage crop
- choose appropriate equipment for forage establishment and culture
- make a harvesting plan for different forage crops
- make a pest management plan for Fraser Valley forage crops
- read and understand a forage analysis
- describe in detail the fermentation process needed to make silage
- describe in detail how good quality hay is produced

METHODS:

Lectures, field trips, discussions, in-class assignments.

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

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

METHODS OF OBTAINING PLAR:

Challenge exam, articulated agreements.

TEXTBOOKS, REFERENCES, MATERIALS:

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

References:
Plant Science - Janeck, Sherry, Woods
Principles of Crop Production - Acquaah
Modern Corn Production - Aldrich, Scott, Hoeft
Advanced Forage Management - Bittman, Schmidt and Cramer
Advanced Silage Corn Management - Bittman and Kowalenko

SUPPLIES / MATERIALS:

Forage samples brought from different farms, coveralls, field notebook, calculator, transportation to field trips.

STUDENT EVALUATION:

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

5 assignments - 75%
  Example of an assignment might be to write an essay on an assigned topic using scientific journals.
  Attendance required at all field trips; introducing/thanking guest speakers/field trip hosts.
Final exam - 25%

COURSE CONTENT:

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

Topics:

Types of forages
- grasses
  - different species
  - different varieties
- legumes
  - different species
  - different varieties

Crop establishment and growth
- soil (seedbed) preparation
- seed choice

- seeding rate
- seeding methods
- seeding innoculation
- time of seeding
- how a plant grows
- expected yields
- crop rotations
- cutting times
- regrowth parameters
- grazing techniques
- soil testing
- fertilizing and fertilizer programs

Pest management
- weeds
  - types
  - prevention
  - causes
  - cures
- insects
  - types
  - prevention
  - causes
  - cures
- diseases
  - types
  - prevention
  - causes
  - cures
- IPM programs
  - chemical control
  - biological control
  - mechanical control

Harvesting equipment

Feed inventories
- silage production and management
- hay production and management
- feed analysis for various livestock species