



DEPARTMENT OF ANIMAL SCIENCES

COURSE OUTLINE – FALL 2014

BK361: INTEGRATED PEST MANAGEMENT – 1.5(2.5-0-2) 36 HOURS

INSTRUCTOR: Eric Stromgren

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OFFICE HOURS: As posted

PREREQUISITE(S)/COREQUISITE:

BK200

REQUIRED TEXT/RESOURCE MATERIALS:

TBA

CALENDAR DESCRIPTION:

Focus on the integrated approach to manage pests, diseases, parasites and other threats to bees/colonies and an in-depth study of monitoring, control strategies, and the safe use and handling of chemicals used to maintain hive health.

CREDIT/CONTACT HOURS:

Course consists of 2.5 lecture hours and 2 lab hours per week for 8 weeks; total of 36 hours

DELIVERY MODES:

Course includes lectures, guest presentations, seminars, class discussions, readings, assignments, quizzes and a comprehensive final exam.

OBJECTIVES:

1. Understand integrated pest management approach as used in commercial beekeeping
2. Understand specific pesticides, organic acids, and other products used to manage pests, diseases, parasites, and other threats to colonies

3. Coordinate control strategies to prolong product efficacy while maintaining hive health
4. Understand hive hygiene, non-chemical approaches, cultural controls and genetic controls for hive health
5. Monitor mite levels, assess economic threshold, and treat as necessary using appropriate application methods
6. Understand the importance of research and ongoing learning at the individual beekeeper level to maintain current knowledge of pests, threats, options and trends.

GRADING CRITERIA:

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation
A⁺	4.0	90 – 100	EXCELLENT
A	4.0	85 – 89	
A⁻	3.7	80 – 84	FIRST CLASS STANDING
B⁺	3.3	77 – 79	
B	3.0	73 – 76	GOOD
B⁻	2.7	70 – 72	
C⁺	2.3	67 – 69	SATISFACTORY
C	2.0	63 – 66	
C⁻	1.7	60 – 62	
D⁺	1.3	55 – 59	MINIMAL PASS
D	1.0	50 – 54	
F	0.0	0 – 49	FAIL
WF	0.0	0	FAIL, withdrawal after the deadline

EVALUATIONS:

Class Participation	20%
Assignments	50%
Final Project	30%

STUDENT RESPONSIBILITIES:

- Students are expected to be on-time and present to complete this course. Requests to reschedule assignments or assessments will only be granted under extraordinary circumstances.
- Students must follow all safety guidelines and procedures.

STATEMENT ON PLAGIARISM AND CHEATING:

Refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at www.gprc.ab.ca/about/administration/policies/**

**Note: all Academic and Administrative policies are available on the same page.

COURSE SCHEDULE/TENTATIVE TIMELINE:

Schedule of topics to be announced in class

1. Overview of IPM
2. Varroa Mites
3. *Nosema ceranae*
4. Pesticides in Beekeeping
5. Colony Collapse Disorder