



**DEPARTMENT OF WELDING, CTO, INSTRUMENTATION AND BEEKEEPING**

**COURSE OUTLINE – WINTER 2014**

**BK 132 HONEY BEE BIOLOGY- 3(4-0-3) 9 WEEKS; 63 HOURS**

**INSTRUCTOR:** Bob Walsh

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**OFFICE:** FTI 217

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**OFFICE HOURS:** As posted

**PREREQUISITE(S)/COREQUISITE:**

Admission to the beekeeping program.

**REQUIRED TEXT/RESOURCE MATERIALS:**

Mark Winston. *The Biology of the Honey Bee* (Harvard University Press, 1991).

**CALENDAR DESCRIPTION:**

This course provides an in-depth study of honey bees, their behavior and anatomy. Honey bee genetics, bee breeding and selection, and the colony will also be covered.

**CREDIT/CONTACT HOURS:**

Course consists of 4 lecture hours and 3 lab hours per week for 9 weeks; 56 hours total.

**DELIVERY MODES:**

The course work includes lectures, discussions, assigned readings, a biology report, and lab work.

**OBJECTIVES:**

1. To gain a thorough understanding of honey bee behaviour and anatomy the physiology of the digestive, respiratory, circulatory, and nervous systems.
2. To provide students with the basic knowledge on which colony management, disease control, and queen rearing decisions are made.

**GRADING CRITERIA:**

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

## EVALUATIONS:

Midterm Exam	25%
3 Quizzes	10%
Laboratory Exam	10%
Assignments	5%
Bee Biology Report	20%
Final Exam	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.

Assignments and reports must be submitted on time to be eligible for grading.

Late assignments and reports will be subjected to a 20% penalty per day. To avoid penalty, lateness for medical reasons must be documented with a doctor's note.

## 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/\\*\\*](http://www.gprc.ab.ca/about/administration/policies/**)

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

## COURSE SCHEDULE/TENTATIVE TIMELINE:

- Midterm exam will be in week 4. A detailed schedule will be distributed in class.
- Final Exam will be during the exam week (week 10). A detailed schedule will be distributed in class.
- Details of Quizzes and Assignments will be provided in advance during regularly scheduled classes.