



## DEPARTMENT OF ANIMAL SCIENCES

### COURSE OUTLINE – WINTER 2015

#### BK122 INTRODUCTORY BOTANY – 1(1.5-0-1) 22.5 HOURS

**INSTRUCTOR:** Eric Stromgren

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**OFFICE HOURS:** As posted

#### **PREREQUISITE(S)/COREQUISITE:**

Admission to the beekeeping program

#### **REQUIRED TEXT/RESOURCE MATERIALS:**

*None required.*

#### **CALENDAR DESCRIPTION:**

This course is an introduction to the structures and functions of flowering plants, physiology of nectar and pollen, and crops that can be used in honey production.

#### **CREDIT/CONTACT HOURS:**

This course consists of 3 lecture hours and 2 lab hour per week for 4.5 weeks; total 22.5 hours.

#### **DELIVERY MODES:**

Course work includes lectures, discussions, assigned readings, lab exercises, a quiz, and a final exam.

#### **OBJECTIVES:**

Course focus is basic botany and background knowledge relevant to beekeepers, honey production and pollination.

Specific objectives:

1. To understand the basic structure and function of the flowering plant.
2. To understand the basic morphology and physiology of nectar and pollen production.
3. To understand crop production and the crops that can be used in honey production.

**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:**

Participation	20%
Assignments/Quizzes	20%
Laboratory Exercises (2 @ 10 % each)	20%
Final Exam	40%

## **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.

Assignments must be submitted on time in order to be eligible for grading. Late submission due to illness 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:**

- Quizzes in each class
- Laboratory assignment 1 due in week 2
- Laboratory assignment 2 due in week 4
- Final exam following course completion (week 5)

## **COURSE CONTENT**

- Introduction to botany as a discipline
- Plant and planetary evolution
- Morphology of plants
- Plant lifecycle
- Plant breeding and crop pollination
- Issues affecting crop pollination and honey bees