



**DEPARTMENT OF SCIENCE**

**COURSE OUTLINE – FALL 2011**

**BI1050 – THE ORGANIZATION AND DIVERSITY OF LIFE**

**INSTRUCTOR:** Dr. Shauna Henley, **PHONE:** 539-2439  
PhD

**OFFICE:** J215 **E-MAIL:** SHenley@gprc.ab.ca

**OFFICE HOURS:** Wednesday 12:45-2:15; Friday 10:30-12:00

**PREREQUISITE(S)/COREQUISITE:** None

**REQUIRED TEXT/RESOURCE MATERIALS:**

“Campbell Essential Biology”, 4<sup>th</sup> edition (2010) by Simon, Reece and Dickey, Benjamin Cummings Publishing.

**CALENDAR DESCRIPTION:**

A study of biological concepts and mechanisms illustrated by current examples of medical and environmental importance.

**CREDIT/CONTACT HOURS:** 3 Credits (3-1-3) UT, 45 hours

**DELIVERY MODE(S):**

Lectures – Tuesdays and Thursdays  
11:30 – 12:50  
Rm D208

**OBJECTIVES:**

Students will gain an understanding of basic biological concepts with a focus on cell biology, genetics, evolution and ecology.

**TRANSFERABILITY:** University of Alberta  
University of Calgary  
University of Lethbridge  
Athabasca University  
Augustana Faculty, University of Alberta

\* BI1050 is not accepted for credit to students whose major or minor is in the Biological Sciences at the University of Alberta, University of Calgary or Augustana University.

\*\* Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability.

**EVALUATIONS:** Exam 1 – 25%  
Exam 2 – 25%  
Exam 3 – 25%  
Exam 4 – 25%

All exams are non-cumulative.

**STUDENT RESPONSIBILITIES:** Students are expected to attend **all** classes, complete the assigned readings and write all exams. Failure to write an exam will result in a grade of zero unless appropriate documentation is provided.

**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.

**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>

## **COURSE SCHEDULE:**

<b>Topics</b>	<b>Required Text Readings (pages)</b>
1. Introduction to BI 1050	---
2. Chemistry and Biological Molecules	7-8, 22-28, 37-53
3. Cell Structure	54-73, 83-89
4. Introduction to Metabolism	75-82
5. Respiration and Fermentation	90-105
6. Photosynthesis	106-118
<b>EXAM 1 (October 4)</b>	
7. Cell Division and Reproduction	120-143
8. Patterns of Inheritance	144-161, 165-171
9. Structure and Function of DNA	172-197
10. Biotechnology	207-210, 218-227, 234-237
<b>EXAM 2 (October 27)</b>	
11. Evolution	242-254, 260-267
12. Classification and Taxonomy	285-291
13. Prokaryotes and Protists	299-313
14. Plants and Fungi	314-335
15. Animals	336-362
<b>EXAM 3 (November 17)</b>	
16. Biosphere	372-390, 394-401
17. Population Ecology	402-423
18. Communities and Ecosystems	424-437, 444-452
<b>EXAM 4 (to be held during the scheduled exam period)</b>	