Dept. of Science Grande Prairie Regional College

BI 1050 The Organization & Diversity of Life

Course Outline Fall 2010-2011

<u>Instructor</u> Philip Johnson B.Sc., M.Sc., Ph.D., M.S.P.H. Office: J224 Phone: 539-2863 E-mail: *johnson@gprc.ab.ca* Description: A study of biological concepts and mechanisms illustrated by current examples of medical and environmental importance.

Schedule: Tuesdays & Thursdays 1130-1250 J201

Transfer: BIOL 204 – Athabasca University BIOL 1xx – Augustana University BIOL 1xx – University of Alberta BIOL 205 – University of Calgary BIOL 205 – Medicine Hat College BIOL 2205 – Mount Royal College BIOL 205 – Saint Mary's College

NOTE 1: BI 1050 is not accepted for credit to students whose Major or Minor is in the Biological Sciences at University of Alberta, University of Calgary or Augustana University.

NOTE 2: BI 1050 is not acceptable as a pre-requisite for any second year course in the Biological Sciences at Grande Prairie Regional College.

Pre-requisites: None

Textbook:	 K: "Essential Biology" (4th Edition, 2010) N.A. Campbell, J.B. Reece & E.J. Simon Pearson / Benjamin Cummings Publishers 		
Materials:	The following items are available as downloadable files (pdf) on the BI 1050 Moodle page:		
	Course Outline		
	Powerpoint slides used in class		
	Topic Objectives		
	Glossary of Terminology		

Practice quizzes/exams

Student Responsibilities: Since participation in lectures, and completion of assignments are important components of this course, regular attendance in class is strongly advised. Students who chose not to attend or complete assignments must assumed the risks involved. In this regard, your attention is directed to the Academic Guidelines of Grande Prairie Regional College as described in the Calendar, especially the sections dealing with plagiarism, cheating and the resultant penalties since these are serious issues and will be dealt with severely.

Evaluation:	Exam 1	33.3%
	Exam 2	33.3%
	Exam 3	33.3%
	Exam 4	33.3%

All exams will be NON-CUMULATIVE and held during scheduled class times. Final grade will be calculated from the three highest exam marks, based approximately on the following chart.

Grade	<u>Final Mark</u>	
A+	>90%	
А	87-90%	
A-	83-86%	
B+	79-82%	
В	74-78%	
B-	70-73%	
C+	69-74%	
С	65-68%	
C-	61-64%	
D+	55-60%	
D	50-55%	
F	<50%	

TOPIC OUTLINE

TOPIC	Textbook readings					
<u>10FR</u>	3 rd Edition	4 th Edition				
Introduction to BI 1050						
The Scientific Method	1-5, 13-18	1-6, 14-20				
Chemistry and Biological Molecules	22-27, 36-51	22-28, 37-53, 7-8				
Cell Structure	55-69, 80-84	54-73, 83-87				
EXAM I						
Introduction to Metabolism	73-79	75-82				
Respiration and Fermentation	88-100	90-105				
Photosynthesis	103-112, 114-116	106-118				
Cell Division and Reproduction	120-139	120-143				
EXAM II						
Structure and Function of DNA	172-189	7-8, 123-125,172-187				
Viruses and Procaryotes	189-195, 303-309	188-194, 299-305				
Biotechnology	208-211, 219-230, 235-238	218-227, 234-240, 207-210				
EXAM III						
Classification and Taxonomy	6-8, 286-291	285-291				
Protists	303-315	306-313				
Plants and Fungi	320-339	314-335				
Animals	343-366	336-362				
EXAM IV						

To improve understanding of the material covered during classes and to ensure successful completion of this course, it is strongly suggested that students read the relevant text pages in advance of the classes.

Students are encouraged to ask questions at any time during classes