

*BI 1050 Course Outline*  
*Fall 2002*

Dept. of Science & Technology  
Grande Prairie Regional College  
Course Outline  
BI 1050  
The Organization and Diversity of Life  
Fall 2002

Instructor  
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## ***BI 1050 Course Outline***

### ***Fall 2002***

Course Description: A study of biological concepts and mechanisms illustrated by current examples of medical and environmental problems.

Lecture Times: To Be Announced

Office Hours: To Be Announced

Pre-requisites: None

Note: BI 1050 is not open for credit to students whose Major or Minor is in the Biological Sciences.

Note: BI 1050 is not acceptable as a prerequisite for any of the second year courses in Biological Sciences.

Required Text: 'Biology: Concepts and Connections' (3<sup>rd</sup> Edition)  
Campbell, N.A., Mitchell, L.G. and Reece, J.B.  
Prentice Hall (2000)

Note: Earlier editions of the text, should they be available, will be adequate for this course.

Requirements: Since participation in lectures and completion of assignments are important components of this course, regular attendance at classes is advised. Those who chose not to attend must assume whatever risks are involved. In this regard, your attention is directed to the Academic Guidelines of Grande Prairie Regional College.

Evaluation: Mid-term I 30%

Mid-term II 30%

Final Exam 40%

Mid-term I will examine you on material presented during the first four weeks of the course.

Mid-term II will examine you on material presented during Weeks 5-8 of the course.

The Final Examination is cumulative but will emphasize material presented since Mid-term II.

## TOPIC OUTLINE

### topic text chapters

Course Introduction, The Scientific Method 1  
Taxonomy and Biodiversity 15.9 - 15.14, 16, 17, 18  
Cell Theory and Cell Biology 2, 3, 4  
Biochemistry 5, 6, 7  
Cell Division 8  
Inheritance and Human Genetics 9, 11  
DNA Technology and Genetic Engineering 12, 32.16  
Homeostasis and Organ Systems 20, 25  
Support and Locomotion 30  
Nutrition 21  
Gas Exchange 22  
Circulation 23  
Immune System 24  
Nervous System 28  
Endocrinology 26  
Evolution by Natural Selection 13, 14, 15  
Individual and Population Ecology, Predation,  
Competition and Mutualism 34, 35, 36.1 - 36.5  
Community and Ecosystem Ecology 36.6 - 36.20  
Behavioural Ecology 37, 38