



**LEARNING OUTCOMES:**

1. Students should know and apply the principles of scientific enquiry
2. Students should know the principles and evidence for evolution.
3. Students should know taxonomic characteristics of eukaryotic organisms.
4. Students should be able to identify members of each taxon.

**COURSE OBJECTIVES:**

1. To gain an understanding of the evolution of life on earth.
2. To gain a knowledge of the various taxa of eucaryotic organisms.

**CREDIT/CONTACT HOURS:** 3 credits (3-1-3)

<b>DELIVERY MODE(S):</b>	Classes	Tuesdays & Thursdays	0830-0950 (J229)
	Labs:	L1 Fridays	1430-1720 (J130) or
		L2 Wednesdays	1430-1720 (J130)
	Seminars:	S1 Fridays	0830-0920 (J226) or
S2 Mondays		1130-1220 (J226)	

**OBJECTIVES:** To provide the student with a thorough understanding of current evolutionary theory; to show how the evolutionary process has produced a wide variety of organisms both extinct and extant.

**SUPPLEMENTS:** Copies of the Lecture Powerpoint presentations will be available as handouts. They can be downloaded from the BI 1080 Moodle page. Other learning resources will be added to the page during the semester.

Mastering Biology Web site

Students can gain access to this resource using the Student Access Kit provided with the text book. The Study Area of this site provides many useful tools including animations, videos and practice quizzes.

**TRANSFERABILITY:**

BIOL 108 University of Alberta

**EVALUATIONS:**

Lab. Work	30%
Seminar	10%
Mid-term Exam	20%
Final Exam	40%

**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>A</b>	<b>4.0</b>	<b>85 – 89</b>	
<b>A<sup>-</sup></b>	<b>3.7</b>	<b>80 – 84</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>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>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>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>

**\*\* 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**

**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/)

All cell phones should be switched off while students are in class. Should a cell phone ring during class, the first instance will result in a warning to all students; further instances will result in the owner of the cell phone being asked to leave that day's class.

Students will be allowed to use standard non-programmable calculators in exams. **All other electronic devices are prohibited** and should not be brought into exams. Students found to be using a prohibited electronic device during an exam will be required to leave immediately and will receive a mark of zero for that exam.

In order to succeed in Biology 1080:

- it is advisable to attend all classes and laboratory sessions, and complete all assignments in full and on time.
- students should be active participants in class discussions
- students should ask any questions that will clarify the material being presented.

**BI 1080**  
**TOPIC OUTLINE & TEXT READINGS**  
**Winter 2017-2018**

TOPIC	Readings (pages) (Campbell's Biology)	
	1 <sup>st</sup> Canadian Edition	2 <sup>nd</sup> Canadian Edition
Introduction to BI 1080		
Unifying themes in Biology	1-30; 353-354	1-28; 355-356
Taxonomy, Phylogeny & Systematics	576-594	579-602
Evolutionary Principles	484-501	492-509
Evolution of Populations	502-521	510-529
Origin of Species	522-541	530-549
History of Life	542-545; 548-573	550-554; 557-581
Protists	616-643	625-651
Plants – Colonization of Land	644-663	652-671
Plants – Seed & Flowering plants	664-683	672-691; 867-871
Fungi	684-702	692-711
Animals - Overview	703-715	712-725
Animals – Invertebrates	716-747	726-758
Animals - Chordates	748-775	759-784