

DEPARTMENT OF SCIENCE COURSE OUTLINE – Fall 2019 BI1050 A3 – THE ORGANIZATION AND DIVERSITY OF LIFE 3 (3-0-0) 45 HOURS FOR 15 WEEKS

INSTRUCTOR: Beatrice Amar, Ph.D. **PHONE:** 780 5302031

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OFFICE HOURS: Tuesdays 0830-1100 hrs

Wednesday 1300-1430 hrs

PREREQUISITE(S): None

REQUIRED TEXT/RESOURCE MATERIALS:

"Campbell Essential Biology" by Simon, Reece and Dickey, Pearson Publishing, 7th Edition, 2018 (or 6th edition, 2016). ISBN-13: 978-0-13-476503-7

CALENDAR DESCRIPTION:

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

CREDIT/CONTACT HOURS: 3 Credits (3-0-0) UT, 45 hours

DELIVERY MODE(S):

Lectures – Mondays and Wednesdays 8:30 – 9:50 Rm F207

OBJECTIVES:

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

TRANSFERABILITY:

Please refer to the ACAT transfer guide for transferability details.

- * Currently 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: Quizzes – 10%

Exam 1 - 20%

Exam 2 - 20%

Exam 3 - 20%

Exam 4 - 30%

All exams are non-cumulative. The dates of quizzes and exams will be announced in class.

STUDENT RESPONSIBILITIES: Students are expected to attend <u>all</u> classes, complete the assigned readings and write all quizzes and exams. Failure to write a quiz or exam will result in a grade of zero unless appropriate documentation is provided.

GRADING CRITERIA:

GRANDE PRAIRIE REGIONAL COLLEGE				
GRADING CONVERSION CHART				
Alpha Grade	4-point	Percentage	Designation	
	Equivalent	Guidelines		
\mathbf{A}^{\dagger}	4.0	90 – 100	EXCELLENT	
Α	4.0	85 – 89		
A ⁻	3.7	80 – 84	FIRST CLASS STANDING	
B⁺	3.3	77 – 79		
В	3.0	73 – 76	GOOD	
B ⁻	2.7	70 – 72		
C ⁺	2.3	67 – 69	SATISFACTORY	
С	2.0	63 – 66		
C_	1.7	60 – 62		
D ⁺	1.3	55 – 59	MINIMAL PASS	
D	1.0	50 – 54		
F	0.0	0 – 49	FAIL	
WF	0.0	0	FAIL, withdrawal after the deadline	

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/.

^{**}Note: all Academic and Administrative policies are available on the same page.

COURSE SCHEDULE:

Topics	Required Text Readings (6 th Edition)			
Introduction & the scientific method	2-20			
Chemistry and Biological Molecules	22-28, 37-53			
Classification and Taxonomy	286-291			
EX	KAM 1			
4. Cell Structure	54-73, 83-89			
5. Introduction to Metabolism	75-82			
6. Respiration and Fermentation	90-105			
7. Photosynthesis	106-118			
EXAM 2				
8. Cell Division and Reproduction	120-143			
9. Patterns of Inheritance	144-162, 165-169			
10. Structure and Function of DNA	170-185			
11. Biotechnology	205-208, 216-226,			
	234-237			
EXAM 3				
12. Evolution: how populations evolve	242-267			
13. Evolution: how biological diversity evolves	268-285			
14. Viruses and prokaryotes	186-192, 299-306			
15. Plants and Fungi	314-335			
16. Animals	336-360			
EXA	M 4			