



DEPARTMENT OF ACADEMIC UPGRADING

COURSE OUTLINE – Winter 2018

BI0130 (A3 & B3): Biology Grade 12 Equivalent – 5 (5-0-1.5) HS 95 Hours 15 Weeks

INSTRUCTOR: Beatrice Amar **PHONE:** 780-539-2031
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OFFICE HOURS: As posted on my office door.

CALENDAR DESCRIPTION: The concepts in this course include nervous and endocrine systems; human reproduction and development; cell division, genetics and molecular biology; populations and community dynamics.

PREREQUISITE(S)/COREQUISITE: BI0120 (Biology 20); EN0120 (English 20-1 or 20-2) or EN0130 placement; MA0110 (Math 10C) or MA0123 (Math 20-3) or MA0120 placement. See also Academic Upgrading Science Requirements.

REQUIRED TEXT/RESOURCE MATERIALS: Inquiry into Biology-McGraw-Hill Ryerson. You must also print the lab manual, which will be available on Moodle.

DELIVERY MODE(S): Classroom instruction and lab. Use of Moodle required.

COURSE OBJECTIVES:

Detailed course objectives are found in the course syllabus that will be provided to you.

The course is divided into 4 units:

Unit 1: The Nervous and Endocrine Systems

Unit 2: Reproduction and Development

Unit 3: Cell Division, Genetics, and Molecular Biology

Unit 4: Populations and Community Dynamics

LEARNING OUTCOMES: As stated by Alberta Education, upon successful completion of this course the student will be able to:

- Explain how the nervous system controls physiological processes
- Explain how the endocrine system contributes to homeostasis
- Explain how survival of the human species is ensured through reproduction
- Explain how human reproduction is regulated by chemical control systems
- Explain how cell differentiation and development in the human organism are regulated by a

combination of genetic, endocrine and environmental factors.

- Describe the processes of mitosis and meiosis
- Explain the basic rules and processes associated with the transmission of genetic characteristics
- Explain classical genetics at the molecular level
- Describe a community as a composite of populations in which individuals contribute to a gene pool that can change over time
- Explain the interaction of individuals in a population with one another and with members of other populations and explain, in quantitative terms, the change in populations over time
- Lab Skill objectives (focus on scientific inquiry) Initiate, plan, perform record, analyze, interpret, communicate and work in a team

TRANSFERABILITY:

Please consult the Alberta Transfer Guide for more information

<http://alis.alberta.ca/ps/tsp/transferalberta.html>

**** 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:

Unit 1 Test.....	10%
Unit 2 Test.....	5%
Unit 3 Test.....	10%
Unit 4 Test.....	5%
Moodle Quizzes.....	5%
Labs, Quizzes, Assignments.....	15%
Midterm (Cover Units 1&2).....	25%
Final (Covers Units 3&4).....	25%

All tests and exams **MUST** be written at the scheduled times unless **PRIOR** arrangements have been made with the instructor. A missed test (exam) will result in a score of **ZERO** on that test (exam). In order to defer an exam due to illness you will require a medical note. Quizzes will be written in class or labs; no opportunity will be provided for missed quizzes and thus a missed quiz will result in an automatic 0. The final exam is 3 hours long and is scheduled by the registrars' office during GPRC Exam weeks.

GRADING CRITERIA: Please note that most universities will not accept your course for transfer credit **IF** your grade is **less than C-**.

Alpha Grade	4-point Equivalent	Percentage Guidelines	Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	90-100	C+	2.3	67-69
A	4.0	85-89	C	2.0	63-66
A-	3.7	80-84	C-	1.7	60-62
B+	3.3	77-79	D+	1.3	55-59
B	3.0	73-76	D	1.0	50-54
B-	2.7	70-72	F	0.0	00-49

COURSE SCHEDULE/TENTATIVE TIMELINE:

Biology 0130 consists of four units:

Unit 1: The Nervous and Endocrine Systems (4 weeks)

Unit 2: Reproduction and Development (2 weeks)

Midterm (Units 1 + 2)

Unit 3: Cell Division, Genetics, and Molecular Biology (5 weeks)

Unit 4: Populations and Community Dynamics (2 weeks)

Final Exam (Units 3 + 4)

Tentative test and exam dates:

10% January 31

5% February 9

25% February 13

10% March 21

5% April 6

25% April 17-26

STUDENT RESPONSIBILITIES:

Refer to the College Policy on Student Rights and Responsibilities at

www.gprc.ab.ca/d/STUDENTRIGHTSRESPONSIBILITIES

If you are late for a lab, you might not be permitted to do the lab as important safety concerns are always addressed at the beginning of each lab period. The lab is certified as a Level 2 biohazard facility and the regulations that apply will be given to you during your first lab. If you miss a lab, you will not have the opportunity for a make-up lab. You automatically receive a grade of 0 for that lab.

Attendance: If you miss 10 or more classes (including labs) you may be debarred from the final exam.

Lateness: Lateness will not be tolerated.

Cell Phone Use: Turn them off during class time.

Labs and assignments: These are due on the day announced in class, lab or as posted on Moodle. If you submit your assignment or lab late you may be docked 10% per day late. **A late assignment or lab will not be accepted once the assignment or lab has been returned to other students.**

Tests and Exams: Use of any electronic communication devices during Tests and Exams is not permitted.

STATEMENT ON PLAGIARISM AND CHEATING:

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, 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 <http://www.gprc.ab.ca/about/administration/policies/>