



DEPARTMENT OF ACADEMIC UPGRADING

COURSE OUTLINE –WINTER 2021

BI0130 (A3): Biology Grade 12 Equivalent – 5 (5-0-2) 105 Hours for 15 Weeks

INSTRUCTOR: Nicoletta Harabor **PHONE:** 780-539-2794
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OFFICE HOURS: As posted on D2L

WINTER 2021 DELIVERY: Mixed Delivery – Remote and Onsite. This course is delivered remotely with some face-to-face/onsite components at the GPRC *Grande Prairie* campus.

- For the remote delivery components: students must have a computer with a webcam and reliable internet connection. Technological support is available through helpdesk@gprc.ab.ca.
- For the onsite components: students must supply their own mask [and/or face shield] and follow [GPRC Campus Access Guidelines and Expectations](#).

Note: GPRC reserves the right to change the course delivery.

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); MA0110 (Math 10C) or MA0123 (Math 20-3). A student may register in BI0130 if the student has achieved a mark of 60% or better in Alberta Education Biology 20 within the previous four years or consent of the instructor.

REQUIRED TEXT/RESOURCE MATERIALS: Inquiry into Biology-McGraw-Hill Ryerson. You must also print the lab manual which will be available on D2L.

DELIVERY MODE(S): Online classroom instruction and lab. Use of D2L 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. You may check to ensure the transferability of this course at the Alberta Transfer Guide main page <http://www.transferalberta.ca>.

**** 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 Exam 1.....	15%
Unit Exam 2.....	15%
Labs, Quizzes, Presentations.....	15%
Midterm.....	25%
Final	30%

All tests and exams **MUST** be written at the scheduled times. 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 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.

Note: The exams for this course must be taken online with the use of Respondus Lockdown Browser and Respondus Monitor exam proctoring software. Students must download Lockdown Browser and Respondus Monitor will automatically start with examinations through myClass. The proctoring software is a requirement to uphold academic integrity and is necessary to meet accreditation requirements.

Lockdown Browser and Respondus Monitor requires Windows or Mac desktop, laptop, or iPad platforms. Chromebooks, smart phones, and other tablets are not supported. If you do not have access to a Windows or Mac desktop, laptop or iPad, you can book a College PC via the GPRC App -> On-campus Reservations.

You can learn more about Respondus Lockdown Browser and Respondus Monitor here: <https://web.respondus.com/lockdownbrowser-student-video/>. It is important to note that the software recordings are automated systems and are designed to be less intrusive than in-person proctors. The software is only running while you are signed in during your exam. The exam administrators only review the recordings after the exam is submitted and only if it was flagged due to suspicious activity.

The collection and use of your personal information is in accordance with the Freedom of Information and Protection of Privacy (FOIP) Act S. 33 (c) which states that “*No personal information may be collected by or for a public body unless that information relates directly to and is necessary for an operating program or activity of the public body.*” In addition S. 39 (4) states, “*A public body may use personal information only to the extent necessary to enable the public body to carry out its purpose in a reasonable manner.*”

If you are unable to complete your examinations using the proctoring software you may request alternative accommodations to the online testing by contacting your instructor and the GPRC Testing Centre by telephone at 780-539-2212 to arrange to write your exam. Students must book their examinations no less than 2-weeks in advance of the test date and students are choosing to write the examination in the GPRC Testing Centre are responsible for the \$30 sitting fee.

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:

Tentative test and exam dates:

Unit Exam 1	15%	February 1
Midterm	25%	February 22
Unit Exam 2	15%	March 29
Final Exam	30%	April 14-22

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 lab time.

Labs and assignments: These are due on the day announced in class, lab or as posted on D2L. If you submit your assignment or lab late you may be docked 20% 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 Calendar at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at <https://www.gprc.ab.ca/about/administration/policies>