|  |  | **Course Outline and Evaluation Summary**  **Course Code** | |  |
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|  | Title of Course: SBI3U1 | 416-395-3210 | |
|  | Department: Science |  | |

| **Course Description** |
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| In this course, students will deepen their understanding of the processes that occur in biological systems. Students will study theory and conduct investigations in the areas of genetic processes, evolution, the structure and function of animals, biodiversity, and the anatomy, growth, and function of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation.  **Prerequisite:** SNC2D1, Grade 10 Academic Science |

| **Course Evaluation**  Course evaluations incorporate one or more of the achievement categories (KICA). A brief description of each category can be found [here](https://www.dcp.edu.gov.on.ca/en/assessment-evaluation/categories-of-knowledge-and-skills). The final grade is calculated using the weighted percentages below. | | | | | |
| --- | --- | --- | --- | --- | --- |
| **Term Work:** | **A variety of tasks where you show your learning and have marks assigned using the Achievement Categories/Strands** | | **Summative**  **Evaluation:** | **Marked summative tasks which assess your learning on the entire course** | |
| 70% | 20% | Knowledge & Understanding | 30% | 10% | Culminating Task |
| 20% | Thinking & Inquiry |
| 15% | Application | 20% | Final Written Exam |
| 15% | Communication |

| **Learning Skills** |
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| Learning skills provide information to help students understand what skills, habits & behaviors are needed to work on to be successful. These are not connected with any numerical mark. A brief description of each skill can be found [here](http://www.edu.gov.on.ca/eng/policyfunding/growsuccess.pdf#page=17).  **Responsibility, Organization, Independent Work, Collaboration, Initiative and Self-Regulation**  E – Excellent G – Good S – Satisfactory N – Needs Improvement |

| **Required Materials:** Any educational resource required for this course will be provided by the school. It is the student’s responsibility to come to class with these materials. Students should have a binder with lined paper/notebook, writing tools of different colors, calculator and ruler. |
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| **School/Departmental/Classroom Expectations** |
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| **Attendance:** The student is expected to attend class on time. Parents/guardians will be contacted if lates/attendance becomes an issue/hindrance. If the student knows about an absence in advance, they should contact the teacher.  **Plagiarism/Cheating:** A mark of 0 will be assigned for any work submitted that does not belong to the student. A mark of 0 will be assigned to a student who was found to have cheated. Parents/guardians will be informed.  **Missed Work:** If a student is absent from class, (e.g. illness, sports team) it is **their** responsibility to find out what they have missed and to catch up. The student is responsible for completing all of the work that was missed due to an absence. **If a student misses an assignment or test without a legitimate explanation and documentation, marks up to and including the full value of the evaluation may be deducted.** Make-up tests must be arranged to be written.  **Late Work:** Late work may result in a deduction of marks up to and including the full value of the evaluation. |

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**Textbook Access:**

Textbooks will be accessed online. To access the course textbook, follow these instructions:

1. go to earlhaig.ca 7. Username: biology
2. go to departments tab 8. Password: biology123
3. click on science
4. click on downloads
5. click on Biology
6. click on Biology Password File

| **Course Assessment Tasks** | | | |
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| ***Unit/Topic/Strand*** | ***Big Ideas*** | ***Major Assignments / Evaluations*** | ***Estimated Duration*** |
| Unit 1:  Genetic Processes | * genetic and genomic research can have social and environmental implications * variability and diversity of living organisms result from the distribution of genetic materials during the process of meiosis | Quizzes  Chapter Tests  Assignments  Case Study | 28hours |
| Unit 2:  Evolution | * evolution is the process of biological change over time based on the relationships between species and their environments * the theory of evolution is a scientific explanation based on a large accumulation of evidence * technology that enables humans to manipulate the development of species has economic and environmental implications | Chapter Tests  Assignments  Lab | 20 hours |
| Unit 3:  Animals: Structure and Function | * groups of organs with specific structures and functions work together as systems, which interact with other systems in the body * the development and uses of technology to maintain human health are based, in part, on the changing needs of society | Assignments  Case Studies  Lab  Unit Test | 28 hours |
| Unit 4:  Diversity of Living Things | * all living things can be classified according to their anatomical and physiological characteristics * human activities affect the diversity of living things in ecosystems | Quizzes  Project | 20 hours |
| Unit 5:  Plants: Anatomy, Growth, and Function | * plants have specialized structure with distinct functions that enable them to respond and adapt to their environment * plant variety is critical to the survival and sustainability of ecosystems | Labs  Unit Test | 14 hours |
| Culminating Task(s) | Students will either: select appropriate resources to plan a presentation with oral, visual, and written communication to demonstrate their knowledge and understanding of course content and to investigate roles in ecosystems OR complete a practical exam to demonstrate their skills and knowledge from the units studied . | Project/Practical Exam |  |
| Final Written Exam | A written exam that takes place during the exam schedule and assesses students’ knowledge of course materials. | Final Written Exam |  |