

## Grade 11 Biology (University) SBI3U1

<b>Course Description:</b>  This course furthers students’ understanding of the processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biodiversity; evolution; genetic processes; the structure and function of animals; 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.	<b>Level:</b>	University
	<b>Credit Value:</b>	1.00
	<b>Pre-requisite:</b>	SNC2D1/3
	<b>Department:</b>	SCIENCE
	<b>Course Fees:</b>	None



<b>Textbooks &amp; Resources:</b> <ul style="list-style-type: none"> <li>· Growing Success: Assessment, Evaluation and Reporting in Ontario Schools</li> <li>· The Ontario Curriculum Grades 11 and 12 Science (Revised 2008)</li> <li>· Nelson Biology 11 (2011)</li> <li>· Please see pages from and hand-outs including: SATEC student agenda, “SATEC Science Department Evaluation Policy” &amp; “TDSB Science Laboratory Safety Rules and Lab Procedures”</li> </ul>
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<b>Course Evaluation:</b> Student Evaluation consists of three components...					
<b>1) Learning Skills &amp; Work Habits:</b> Students are evaluated on 6 Learning Skills & Work Habits and are evaluated on a scale of Excellent (E), Good (G), Satisfactory (S) & Needs Improvement (N) and reported on the report card.	<b>The skills and habits consist of:</b> <ul style="list-style-type: none"> <li>· Responsibility</li> <li>· Organization</li> <li>· Independent Work</li> <li>· Collaboration</li> <li>· Initiative</li> <li>· Self-Regulation</li> </ul>				
	Skills and work habits are <b>not</b> included in the student’s final mark unless specified in the curriculum expectations.				
<b>2) Term Mark (Assessment of Learning):</b> <i>It is the student’s responsibility to submit evidence of the term’s learning in a complete and timely manner.</i>  Student performance standards for knowledge and skills are described in the curriculum Achievement Chart. The curriculum is assessed in four categories:	<b>The term evaluation consists of:</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: none;"> <ul style="list-style-type: none"> <li>· Knowledge</li> <li>· Inquiry</li> <li>· Communication</li> <li>· Application</li> </ul> </td> <td style="border: none; text-align: center; vertical-align: top;">                 21% 21% 14% 14%             </td> <td style="border: none; text-align: center; vertical-align: middle; background-color: #cccccc;"> <b>70%</b> </td> </tr> </table>		<ul style="list-style-type: none"> <li>· Knowledge</li> <li>· Inquiry</li> <li>· Communication</li> <li>· Application</li> </ul>	21% 21% 14% 14%	<b>70%</b>
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<b>3) Final Evaluation (Assessment of Learning):</b> The <b>written exam</b> will be administered during the school’s final exam schedule. The final evaluation accounts for 30% of the final mark.	<b>The final evaluation consists of:</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: none;"> <ul style="list-style-type: none"> <li>· Written Exam</li> </ul> </td> <td style="border: none; text-align: center; vertical-align: middle; background-color: #cccccc;"> <b>30%</b> </td> </tr> </table>		<ul style="list-style-type: none"> <li>· Written Exam</li> </ul>	<b>30%</b>	
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<b>Final Mark = 70% Term Mark + 30% Final Evaluations</b>					
For a detailed description on Course Evaluation, see “How Did I Get That Mark!” at <a href="http://www.satec.on.ca">www.satec.on.ca</a>					
<b>Course Conduct Policies:</b> See Student Agenda.					

**Please retain this page in the front of your notebook for future reference.**



Scarborough Academy for Technology,

<b>Course Outline:</b>			
<b>Unit</b>	<b>Description</b>	<b>Approximate Length</b>	<b>Major Unit Evaluation</b>
<b>Genetic Processes</b>	Recent contributions have changed our understanding of genetic processes and there are both social and ethical implications of this continued research. Variability and diversity of living organisms is the result of meiosis and the probability of different outcomes can be calculated using different problem solving methods.	4 weeks	Genetics Lab/Project
<b>Evolution</b>	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 and continues to occur via natural selection and variety of other mechanisms. Technology that enables humans to manipulate the development of species has both positive and negative economic and environmental implications.	4 weeks	Evolution Lab/Project
<b>Diversity of Living Things</b>	All living things can be classified according to their anatomical and physiological characteristics. Human activities affect the diversity of living things in ecosystems.	3 weeks	Diversity Lab/Project
<b>Plants: Anatomy, Growth, and Function</b>	Plants have specialized structures with distinct functions that enable them to respond and adapt to their environment. The sustainable use of plants play an important role in Canadian society.	3 weeks	Plant Lab/Project
<b>Animals: Structure and Function</b>	The different groups of organs, with specific structures and functions, work together as respiratory, circulatory and digestive systems. These systems work together to impact the overall function of the animal. Any disorder impacting these systems will impact the overall animal. The development and uses of technology to maintain human health are based, in part, on the changing needs of society.	4 weeks	Project and Dissections: Heart & Fetal Pig
<b>Skills &amp; Careers</b>	Scientific investigation skills and career exploration.	Present in each unit.	
<b>Note:</b>	<b>At least 4 of the above 5 projects will be assigned.</b> <b>All of the above units will also include tests and quizzes.</b>		
<b>Note: The order in which units are delivered may change due to student needs and resources available during the course.</b>			
<b>General Information:</b>		<b>Science Department deadlines and plagiarism policy.</b>	
<p>1 – As per SATEC school policy students are expected to come to class:</p> <ul style="list-style-type: none"> <li>a) in uniform and,</li> <li>b) with cell phones, mp3 players etc... unseen and not in use during class time.</li> </ul> <p>2- To be successful in Science, students are expected to:</p> <ul style="list-style-type: none"> <li>a) come to class prepared with pen/pencil, paper binder and resources for your particular Science course,</li> <li>b) demonstrate academic honesty with their own work and when working with others,</li> <li>c) complete assignments in a timely manner and,</li> <li>d) follow necessary safety rules and procedures of a Science Lab.</li> </ul> <p>Note: For clarification of any of the above issues please see the SATEC agenda along with our own SATEC Science Department Evaluation Policy and/or the TDSB defined Science Laboratory Safety Rules and Lab Procedures presented the first week of class and stored at the front of your notebooks for future reference.</p> <p>3- To seek extra help:</p> <ul style="list-style-type: none"> <li>a) speak to your Science Teacher and schedule a time to meet,</li> <li>b) use the school's homework club to access peer tutors and/or,</li> <li>c) speak to your guidance councillor to arrange for a tutor.</li> </ul>		<p>Each assignment will have a due date. Handing in an assignment <b>after the due date may result in a deduction of marks</b> at the discretion of the teacher.</p> <p>Students must be in class on dates of any major assessments. IF you miss a major assessment (i.e. unit test, exam, presentation) you must give your teacher a note <b>written and signed by your doctor or parent</b> stating the health reasons that kept you from class. Without a doctor's note, you will receive a mark of <b>zero</b> for that missed major assessment.</p> <p>-If you know ahead of time that you will have an appointment, field trip, game, etc at the same time as the major assessment, you must either arrange with your teacher to complete the assessment before the scheduled date, or cancel your other plans so you can attend the evaluation.</p> <p><b>Plagiarism includes:</b> copying another student's work, buying essays, copy/paste web info and call it your own work, using information from print or internet media without identifying the source. To avoid plagiarism:</p> <p>Do not cheat; Do not copy. Keep your eyes on your own paper during tests and exams. Do not steal intellectual property. Reference information properly (MLA)</p> <p>We only need to <u>suspect</u> cheating to penalize you.</p> <p>There will be no warnings, only marks of <b>zero</b>.</p>	
<p><b>This course meets Environment and ICT SHSM program requirements.</b></p> <div style="display: flex; justify-content: center; align-items: center;">   </div>			

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