

## Course Outline: Biology, Grade 11 College Preparation

**Course Code:** SBI 3C

**Credit Value:** 1.0

**Prerequisite:** Science, Grade 10, Applied or Academic

### Course Description:

This course focuses on the processes that occur in biological systems. Students will learn concepts and theories as they conduct investigations in the area of cellular biology, microbiology, genetics, the anatomy of mammals, and the structure of plants and their role in the natural environment. Emphasis will be placed on the practical application of concepts, and on the skills needed for further study in various branches of the life sciences and related fields.

**Textbook:** (Nelson) *Biology 11* and Williams. *Biology For You*

Curriculum Strands:	Units of Study:
Scientific Investigation Skills And Career Exploration	Unit 1: Life processes and cells
Cellular Biology	Unit 2: Human as an organism
Microbiology	Unit 3: Variation, inheritance and biotechnology
Genetics	Unit 4: Microorganisms
Anatomy of Mammals	Unit 5: Plants as organisms
Plants In The Natural Environment	

### Assessment & Evaluation:

Term Work:	70%	Final Summative:	30%
Knowledge and Understanding	= 35 %		
Thinking/Inquiry	= 25 %		
Application	= 20 %		
Communication	= 20 %		

**Within each Curriculum Strand, the following Achievement Chart Categories will be used for individual evaluations:** Knowledge/Understanding, Thinking/Inquiry, Application, Communication

**Learning Skills and Work Habits:** The following Learning Skills and Work Habits are evaluated regularly using a scale of Needs Improvement, Satisfactory, Good or Excellent:

- Responsibility
- Independent Work
- Initiative
- Organization
- Collaboration
- Self-Regulation

**Growing Success:** Students will be assessed through a combination of conversation, observation, and product. Success criteria, exemplars and ongoing descriptive feedback will be used to support student learning. Assessment will be varied in nature, and administered over a period of time to provide multiple opportunities for students to demonstrate the full range of their learning. The final grade should reflect the student's most consistent level of achievement, with special consideration given to more recent evidence. (*Growing Success, 2010*)

**Teaching Strategies:** A variety of teaching and learning strategies will be incorporated throughout the course.