



Durham District School Board
Brooklin High School
Science Department
Course Outline: BIOLOGY, Grade 11, College

Department Head: D. O'Neill

Teacher: S. Kroekenstoel

Course Code: SBI 3C1 (Credit Value: 1.0)

Prerequisite: SNC 2P1 or 2D1

Overall Curriculum Expectations:

Students will study theory and conduct investigations in the areas of cellular biology, microbiology, genetics, anatomy of mammals and plants in their natural environment. They will develop the skills, strategies, and habits of mind required for scientific inquiry, and understand the basic concepts of biology.

Course Description:

This course focuses on the processes involved in biological systems. Students will learn concepts and theories as they conduct investigations in the areas 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 skills needed for further study in the various branches of life sciences and related fields.

Course Strands:

Scientific Investigation Skills and Career Exploration, Cellular Biology, Microbiology, Genetics, Anatomy of Mammals, and Plants in their Natural Environment.

Unit 1: Cellular Biology

Unit 2: Microbiology

Unit 3: Genetics

Unit 4: Anatomy of Mammals

Unit 5: Plants in their Natural Environment

Teaching Strategies:

A variety of teaching and learning strategies will be incorporated throughout the course.

Assessment & Evaluation:

Assessment and evaluation will encompass all four categories of achievement: **Knowledge and Understanding; Thinking/Inquiry; Communication; and Making Connections/Application.** This course will involve a number of assessment and evaluation strategies that will provide all students an opportunity to meet with success.

Term Work: 70%

Labs and Assignments	35%
Quizzes	10%
Tests	25%

Final Summative: 30%

Summative Project	5%
Final Exam	25%

Learning Skills and Work Habits:

The following Learning Skills and Work Habits are evaluated regularly using a scale of Excellent, Good, Satisfactory or Needs Improvement: **Responsibility, Organization, Independent Work, Collaboration, Initiative, Self-Regulation.**

Textbook: McGraw Hill Ryerson Biology 11 – College Preparation (replacement cost: **\$83.00**)

Class requirements: 3-ring binder, scientific calculator, pen, pencil, ruler