



Durham District School Board
Brooklin High School
Science Department
Course Outline: BIOLOGY, Grade 12, University

Department Head: D. O'Neill

Teacher:

Course Code: SBI 4U1 (Credit Value: 1.0)

Prerequisites: SBI 3U1

Overall Curriculum Expectations:

Students will further develop their problem-solving and investigation skills as they investigate biological processes, and will refine their ability to communicate scientific information.

Course Description:

This course enables students to explore concepts and processes that occur in biological systems through the study of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics.

Course Strands:

Scientific Investigation Skills and Career Exploration, Biochemistry, Metabolic Processes, Molecular Genetics, Homeostasis, and Population Dynamics,

Units of Study:

- Unit 1: Biochemistry
- Unit 2: Molecular Genetics
- Unit 3: Metabolic Processes
- Unit 4: Homeostasis
- Unit 5: Population Dynamics

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	30%
Tests & Quizzes	35%
ISU	5%

Final Summative: 30%

Final Exam	30%
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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 Biology 12 (replacement cost: \$84.00)

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