

# Henry Street High School

## SBI 4U1 (Grade 12 Biology, University Preparation) **COURSE OUTLINE**

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |     |                        |     |             |     |               |     |           |     |                            |     |
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| <b>COURSE DESCRIPTION</b>        | <p><i>This course is intended for students interested in studying biological sciences at the university level. Students will study theory and conduct investigations in the areas of metabolic processes, molecular genetics, homeostasis, evolution and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and refined skills needed for further study in the various branches of the life sciences and related fields.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |     |                        |     |             |     |               |     |           |     |                            |     |
| <b>UNITS OF STUDY</b>            | <p><b>UNIT 1</b> – Biochemistry<br/> <b>UNIT 2</b> – Metabolic Processes<br/> <b>UNIT 3</b> – Molecular Genetics<br/> <b>UNIT 4</b> – Homeostasis<br/> <b>UNIT 5</b> – Population Dynamics<br/> <b>UNIT 6</b> – Scientific Investigation Skills and Career Exploration</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |     |                        |     |             |     |               |     |           |     |                            |     |
| <b>ASSESSMENT AND EVALUATION</b> | <p><b>ASSESSMENT AND EVALUATION</b><br/> Each unit may include the following strategies:</p> <ul style="list-style-type: none"> <li>❖ Quizzes</li> <li>❖ Lab Activities</li> <li>❖ Assignments</li> <li>❖ Computer Activities</li> <li>❖ Tests/Unit Tests</li> </ul> <p><b>SUMMATIVE EVALUATION</b><br/> Summative evaluations will include marks from at least one of the following categories:</p> <table style="margin-left: 40px;"> <tr> <td>Knowledge</td> <td style="text-align: right;">40%</td> </tr> <tr> <td>Thinking/Investigation</td> <td style="text-align: right;">35%</td> </tr> <tr> <td>Application</td> <td style="text-align: right;">15%</td> </tr> <tr> <td>Communication</td> <td style="text-align: right;">10%</td> </tr> </table> <p><b>FINAL EVALUATION</b></p> <table style="margin-left: 40px;"> <tr> <td>Term Work</td> <td style="text-align: right;">70%</td> </tr> <tr> <td>Final Summative Evaluation</td> <td style="text-align: right;">30%</td> </tr> </table> | Knowledge | 40% | Thinking/Investigation | 35% | Application | 15% | Communication | 10% | Term Work | 70% | Final Summative Evaluation | 30% |
| Knowledge                        | 40%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |     |                        |     |             |     |               |     |           |     |                            |     |
| Thinking/Investigation           | 35%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |     |                        |     |             |     |               |     |           |     |                            |     |
| Application                      | 15%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |     |                        |     |             |     |               |     |           |     |                            |     |
| Communication                    | 10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |     |                        |     |             |     |               |     |           |     |                            |     |
| Term Work                        | 70%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |     |                        |     |             |     |               |     |           |     |                            |     |
| Final Summative Evaluation       | 30%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |     |                        |     |             |     |               |     |           |     |                            |     |
| <b>OTHER INFORMATION</b>         | <p><b>TEXTBOOK</b> – Nelson Biology 12 University Preparation - \$80<br/> <b>EQUIPMENT</b> - Binder, calculator, pen, pencil, ruler, paper, graph paper</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |     |                        |     |             |     |               |     |           |     |                            |     |