**Health Science 20 – Year Plan 2015/16**

Ms. Vanessa Warnock

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| **Unit** | **Timeline** | **Outcomes** | **Materials/Resources** | **Evaluations** |
| Unit 1: Organization of Life | 6 weeks | **BI30-OL1** Investigate cell structure and processes, including energy transfer, and transport of materials,  in unicellular and multicellular organisms.  **BI30-OL2** Explore how the dynamic nature of biological classification reflects advances in scientific  understanding of relationships among organisms.  **BI30-OL3** Compare the anatomy and physiology of organisms which are representative of different  kingdoms. | * Sunwest Moodle course by Amy Lafontaine | Formative:   * New Patient * Kahoot Quiz Reviews * Discussion Fill Ins * Question Checks   Summative   * Unit 1 Test * Cell Structure Lab * Cell Structure Labelling * Unit Project |
| Unit 3: Genetics | 4 weeks | **BI30-GB1** Investigate the mechanisms and patterns of inheritance.  **BI30-GB2** Investigate the storage, transmission, and expression of genetic information at the  chromosomal level.  **BI30-GB3** Investigate the storage, transmission, and expression of genetic information at the molecular  level. | * Sunwest Moodle course by Amy Lafontaine | Formative   * Kahoot Quiz Reviews * Discussion Fill Ins * Question Checks   Summative   * Unit 3 Test |
| Unit 2: Life and Evolution | 4 weeks | **BI30-LI1** Explore historical and contemporary understandings of the nature of life from scientific and  other perspectives.  **BI30-LI2** Examine the processes and patterns of evolution and the significance of evolution as a key  unifying theme in biology.  **BI30-LI3** Assess the implications of applications of biology and biotechnology on self, society, and the  environment | * Sunwest Moodle course by Amy Lafontaine (notes) | Formative   * Kahoot Quiz Reviews * Discussion Fill Ins * Question Checks   Summative   * Unit 2 Test * Labs |
| Final Project | 2 weeks (time also given through semester) | **BI30-SDS1** Create and carry out a plan to explore one or more topics of personal interest relevant to Biology 30 in depth. |  | Formative:   * Steps 1 through 4 of project plan * Rough draft   Summative   * Final project |

Formative Assessments:

* Exit Slips
* Kahoot Quiz Reviews
* Discussion Fill Ins
* Question Checks

Summative Assessment – 60%

* Labs – 20%
* Projects – 20%
* Other Small Assignments – 20%
* Student Directed Study – 20%
* Unit Test – 20%

Departmental – 40%

**Instructional Strategies**

Teacher led; class and group discussion; small group collaboration; smartboard lessons; experiential/hands-on; inquiry projects; video; virtual learning games

**Differentiation**

Notes done together; (Visual, oral and written); Choice of Final Project; one to one instruction when needed;