

# Springbank Community High School

## Biology 30 Course Outline

**Teacher: Mr. Matthews**

**Text: McGraw-Hill; Replacement Cost: \$120.00**

**Tutorial Hours: Mondays 11:30am to 12:15pm**

**Office Hours: Tuesdays 3:15pm to 4:00pm**

### **Course Objectives:**

Biology 30 builds on the concepts and skills introduced in Biology 20 and Science 10. Common science themes of change, diversity, equilibrium and systems are developed further. We will investigate chemical and electrical systems that keep our bodies alive and in balance, the process of reproduction and development and genetics at the individual and population level. This course will allow us to investigate complexities of the human body and the truly amazing ways in which we cope with our environment. We will also examine topics such as chromosomes, DNA and genetics, which are becoming increasingly newsworthy and important in our lives.

### **Biology 30 consists of four units of study:**

#### **Unit 1: Human Homeostatic Systems**

- Nervous System
- Endocrine System

#### **Unit 3: Cells, Chromosomes, and DNA**

- Mendelian Genetics
- Molecular Genetics

#### **Unit 2: Reproduction and Development**

- Reproductive Systems
- Embryonic Development
- Mitosis and Meiosis

#### **Unit 4: Change Equilibrium in Populations/Communities**

- Population Genetics
- Population Interactions
- Population Dynamics

### **Course Evaluation:**

This is a departmental course, therefore please be aware that the in class evaluation is worth only 50% of your final mark. The remaining 50% comes from a diploma exam written at the end of this course.

### **Final Evaluation:**

Unit Exams:	55%
Quizzes:	20%
Assignments/Labs:	25%
Formative Assessment:	

Online Student Textbook: [https://paris.mcgraw-hill.com/sites/0070960526/information\\_center\\_view0/online\\_student\\_text.html](https://paris.mcgraw-hill.com/sites/0070960526/information_center_view0/online_student_text.html)

Username: biostudent Password: text07

**Expectations:**

Students are expected to be on time for class and have all the appropriate materials.

Students are expected to treat themselves, others and materials with respect.

Students are expected to make good use of class time to complete assigned tasks.

Please keep your IPOD's and cell phones turned off unless given permission.

**Homework and Assignments:**

Just do it! Expect to be spending 20 minutes (if using class time wisely) per school night working on biology homework, completing assignments, reading your text and going over material from the day's class. There is no such thing as a school night with no Bio homework! All assignments are to be handed in at the **beginning of class** on the day they are due. Do not wait until the night before an assignment is due to test your printer! Homework not completed will be assigned an NHI (not handed in) and you will need to meet with me during my tutorial hours in order to receive allocated marks for the assignment. **All homework will be posted on the calendar in my moodle page.**

**Lates and Absences:**

Please be on time for class. If you are late quietly wait at the door until you are let into class.

Quizzes will often be given at the beginning of class so if you are late you will have less time to finish. Excessive tardiness will be dealt with by administration if we are unable to resolve the issue. **If you are absent from class it is your responsibility to find out what you missed.** A missed class is not an excuse for not handing in assignments or being prepared for quizzes and tests. Frequent absences from class will make it difficult to be successful in this class.

**Exams and Quizzes:**

**If you are going to be away for an exam or quiz, you must notify the teacher prior to your absence, by way of a phone call, message, or telling the teacher you will be away. The phone call and/or message must reach the teacher prior to the class writing the exam or quiz.** An unexcused absence on the day of an exam or quiz will result in an incomplete. If you have been excused you are expected to write the exam the first day you are back in class and it is your responsibility to approach me about it. If the test is not written upon your return or at an agreed upon time an incomplete will be given.

**Lab Safety:**

Lab safety is of the utmost importance! Unsafe conduct will not be tolerated and may result in removal from the lab and an incomplete for the lab.

**Required Materials:**

Laptop, Pen, Pencil, Eraser, Ruler, Calculator, Paper, Binder, Textbook

**Extra Help:**

Extra help is available to those who show initiative and who cooperate and work well in class. Tutorials will be held at lunch on Mondays. If Monday's do not work please see me to arrange another time to get help.

If you have any questions, comments or concerns please come and see me in class or email me at [imattthews@rockyview.ab.ca](mailto:imattthews@rockyview.ab.ca). Your ideas, input and participation in class are valued and appreciated.