

Introduction

**Welcome to Biology 12**, the senior Biology course which concentrates on **Cellular Processes** and **Human Biology**. You will find that this is a **challenging course** in which you will learn innumerable interesting and exciting facts and theories about the processes of life.

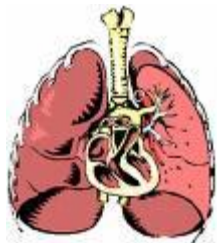
The work load, you will soon find, is **considerably higher** than in Biology 11. This is a course that contains a **great deal of information**, and is designed to prepare the student for the **standards and content of university level** Biology and Biochemistry. Hence, the standards and expectations found in this course are similar to those in a university introductory Biology course. **With perseverance, hard work, and good study habits**, you will do well in Biology 12.

It is my hope that you will leave this course with a greater appreciation for the importance of Biology, and a stronger personal interest in all the processes of life. As the material in this course can be intellectually challenging, I **strongly urge** you to **keep up with all homework, reading, and assignments** and, **most importantly**, see me for extra help and clarification as necessary. I wish you the **best of luck** in this most worthwhile endeavour!



Classroom Expectations

1. Arrive on time and be prepared to participate
2. Complete all assignments on time and attend all classes
3. Respect a working and learning environment
4. Practice safe lab procedures to maintain personal and peer safety
5. No food, musical devices or cell phones are permitted (healthy drinks are allowed)



Materials

Highlighters, pencils, erasers, pens, pencil crayons, glue stick, scissors, binder, and dividers. Here are suggestions for divider headings:

1. Course Overview/Safety & Review/Learning Outcomes	8. Digestion
2. Biological Molecules	8. Circulation and Blood
3. DNA and Protein Synthesis	9. Respiration
4. Cell Structure and Functions	10. Excretion
5. Enzymes and Cellular Respiration	11. Nervous System
6. Cell Membrane and Transport	12. Reproduction
7. Midterm Review	13. Final Exam Review

## Biology 12 Topics and Chapter Sequence (subject to change)

Topic	Chapter	Classes allotted
1. Biologically Important Molecules	1, 2	8
2. DNA, Protein Synthesis, Recombinant DNA	25, 26	9
3. Cell Organelles	3	6
4. Cell Membrane and Transport	4	5
5. Enzymes, Cellular Respiration	6	5
6. Digestion, Human Nutrition	12	8
7. Circulation	13	7
8. Blood	14	4
9. Respiration	15	4
10. Excretion	16	6
11. The Nervous System	17	8
12. Reproductive System	21	6
13. Review		8
*based on <i>Inquiry Into Life, 11<sup>th</sup> Edition, by Sylvia Mader</i>	Total	85

### Evaluation

- Your overall mark in Biology 12 is based on two separate marks: the mark you earn in class with me (worth **80% of your overall mark**) for the course. Allow me to call this 80% your "in-school mark." Your **Final Exam** will count for the other **20% of your overall mark**.
- For your in-school mark, **tests and quizzes will account for 75%**.
- Labs and assignments** will account for the remaining **25%** of your in-school mark.
- The following will be the marks breakdowns:  
A=86-100%, B=73-85%, C+=67-72%, C=60-66, C-=50-59%, D=40-49%, E=0-39%

### Important notes

- Marks will not be given for assignments handed in after the work has been reviewed in class.** You are responsible for catching up and asking for missed work if you were away.
- Missed exams can only be made up if i) you call or email your teacher with a **VALID** reason before the exam *or* ii) your parent or guardian **phones or emails to confirm you are sick** the day of the exam *and* iii) you produce a note from your parent, guardian, or physician which acceptably explains your absence (subject to verification). Regardless of the validity of the excuse, you will may be required to write a **different** test. **DON'T MISS TESTS!** You will receive a zero otherwise.

My email address is: [mangat\\_m@sd36.bc.ca](mailto:mangat_m@sd36.bc.ca)

I can be reached at: (604) 595-8890. Please leave a message on my voicemail if needed.

**Good Luck! I wish you much success and enjoyment in your studies!**