## Course Outline: ANATOMY & PHYSIOLOGY (BIOLOGY) 12

Teacher: **Mrs. Towers** Email: **jtowers@wvschools.ca**

Classrooms: **W204** Office**: Careers office** Website: <http://mrstowers.weebly.com/>

 **Welcome to Anatomy & Physiology 12!**

Anatomy and Physiology 12 focuses on cell and human biology, allowing you to develop an interest in and understanding of science by investigating how the human body systems are integrated to maintain *homeostasis*.

**Course Objectives & Content**: This course addresses a wide variety of learning outcomes across three main topic areas, as described in the 2016-2017 Draft Curriculum: (<https://curriculum.gov.bc.ca/curriculum/10-12>)

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| **TOPIC AREA** | **RELATED CONCEPTS** |
| **Homeostasis** | Cellular Compounds & Biological Molecules, Dehydration & Synthesis Reactions, Enzymes & Metabolic Pathways, Feedback Loops |
| **DNA & Cells** | Cell Structure, DNA Replication, Protein Synthesis, Genetic Mutations & Technologies, Transport Across the Cell Membrane, Surface Area to Volume Ratio |
| **Organization** | Tissue types, Digestive, Cardiovascular, Lymphatic, Respiratory, Nervous, Endocrine, Urinary, and Reproductive Systems. |

The Science Curricular Competencies (*questioning/predicting, planning/conducting, processing/analyzing, evaluating, applying/innovating, and communicating*) are integrated throughout Anatomy & Physiology 12. Students build competency through activities and assignments such as published lab exercises, student-designed labs, dissections, research-based presentations, and creative projects.

**Required Materials (to be brought to every class):**

* Binder with loose leaf paper
* Agenda (digital or book)
* Pens (various colours), pencils, and ruler
* Wi-fi accessible device (laptop preferably)

**Textbook**

 Students will be issued a copy of *Inquiry Into Life, 13th Edition* by Sylvia Mader. (replacement cost: $145)

**Expectations**

Anatomy & Physiology 12 is a demanding course. You should be prepared to do homework every day to keep up with labs, assignments and readings. Daily review of course material at home is essential for success. Each term will consist of daily HW, approximately 3 assignments/lab reports, 6 checkpoints and 2 unit tests.

**Most importantly:** **Own your learning.** At the end of the day, YOU are the one who controls your success in this course. Stay on top of your work and recognize when you need to ask for help.

**Website**

I maintain a class website <http://mrstowers.weebly.com/> where you can find:

* *A day-by-day summary of class activities (including handouts, assignments & due dates)*
* *Announcements, contact information, and additional resources*

**Lates and Absences**

All absences from the class must be excused by a phone call by parent or guardian to the office **on** the day you are absent (before 8:25 a.m.). If you **know in advance** that you’ll be missing class, please **let me know as soon as possible** so that we can create a plan for you to stay caught up while you’re away. Lates and unexcused absences negatively impact your work habits assessment.

It is **YOUR responsibility** to obtain completed notes, handouts, due dates and to catch up with any material missed. My website is a helpful resource but you will need to copy notes from a classmate. I try to reduce paper waste, so please print any handouts from the site before returning to class as there may not always be extra copies available.

**Deadlines**

It is expected that you hand in your completed assignments by the due date *at the beginning of class*.  Late assignments collected up to the following class will be marked as late but will receive full assessment. Any assignments handed in after that point will be used to determine pass or fail for the term. If special extensions are needed, please ask well in advance of the due date.

Rockridge holds a zero tolerance policy for academic misconduct. Copied or plagiarized work will result in a mark of **ZERO** for all individuals involved and will be brought to the attention of school administration.

**Assessment**

In this course, you will take an active role in assessment and be responsible for your own learning. With the help of your teacher and peers, you will develop the ability to understand what you have already learned, determine what you have yet to learn, and decide how you can best improve your understanding. We will assess your work using **performance-based rubrics** with clear criteria.

**GOOGLE CLASSROOM** – Lab reports and other written assignments will be collected via google classroom.

Class Code: **tn3gxtj**). All other assignments will be submitted as hard copies. Assignments will not be accepted via e-mail**.** Students are required to notify their teacher of any assignments submitted late.

**Missed Tests**

If you have an excused absence due to sudden illness or extenuating circumstances on a test day, you will be given the opportunity to write an alternate test at a time arranged with your teacher when you return to school.
***NOTE: Make-up tests are only available to students who have both sent an e-mail in advance themselves and have also had their parent/guardian send a follow-up e-mail or note***. If you are absent on the date of a checkpoint, you will miss the opportunity to write that checkpoint.

**Evaluation**

The content of this course will be tested in late May/early June through an in-class School Final Exam worth 25% of the overall course grade.

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| Term marks will be calculated as follows: Checkpoints & Learning Logs 10%Tests 60%Labs & Assignments 30% | Overall Course Mark: Term 1 20%Term 2 30%Term 3 25%School Final Exam 25% |

**Extra Help**

Please come and see me if you have questions or need extra help! I am usually available before or after school in W204 or the careers office. It’s best to e-mail me in advance to ensure I’m available to meet.

 **Anything Else?** *If you have any other questions or concerns, please do not hesitate to talk to me during class or contact me through email. I’m looking forward to a fun, exciting, and rewarding year of Anatomy & Physiology 12 with you! ☺*