IB Biology II Syllabus

Spring 2017

Teacher: Kelly Dillman

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**Background:** IB Biology is a college level course that is taught over two semesters. In this half of the course topics will include molecular biology, cellular biology, and genetics. This course covers large amounts of material at a fast pace. You must be able to keep up with reading, video materials, labs, and assignments. It is important that you ask questions and seek help when you need it.

**Juniors:** It is your responsibility to keep up with your materials from IB Biology II if you are planning on, or even thinking about, taking the IB exam for this course. You are required to take IB Biology III if you want to take the exam. We will discuss the nature of the exam during the IB Biology III course.

Subject outline:

1. Molecular Biology (Topic 2 and 7)
   1. Carbon and Water
   2. Carbohydrates and Lipids
   3. Proteins and Enzymes
   4. Nucleic Acids
2. Cellular Biology (Topic 1)
   1. Cell Origins
   2. Cell Types
   3. Ultrastructure of Cells
   4. Membrane Structure and Transport
   5. Cell Division
3. Photosynthesis and Respiration (Topic 2 and 8)
   1. Metabolism
   2. Cellular Respiration
   3. Photosynthesis
4. Genetics (Topic 3 and 10)
   1. Genes and Chromosomes
   2. Meiosis
   3. Inheritance
   4. Biotechnology

**Assessment:** There will be a test on each of the four major units. Quizzes will be given periodically between tests. Students will also be formally assessed on their lab work.

**Lab Work:** Students will be expected to write formal lab reports. The requirements for a lab reports are attached. It is expected that students follow this format for every lab unless otherwise stated. Most labs in IB Biology II will only require parts that the students complete parts of the lab report.

All labs are required. Students who do not complete labs in IB Biology II will not be eligible for examination in the spring of 2018. IBO requires 60 hours of lab work to be completed by each student in order to assess their knowledge of the scientific process. All labs should be kept by the students electronically over the course of both semesters. I will also keep a paper copy and an electronic copy.

**Academic Honesty:** Students are not permitted to cheat or plagiarize. If you make this choice, be prepared for the consequences. Cheating and plagiarism includes class assignments and homework. Group labs may include collaboration but all reports are individually written.

**Notes and Class Assignments:** All notes, and most class assignments, can be found on my webpage. Students may print the notes and bring them to class. In order to be successful, it is recommended that students add on to these notes during class.

**Late Work**: If you are in class there is no reason for your work to not be on time. Absentee work is expected to be made up within three days. Exceptions can be made for extenuating circumstances upon request. It is important that labs are made up in a timely matter since students are required to have 35 hours completed by the end of the semester.

**Grade Policy:**

* + Test: 100 points
  + Classwork: 5 – 20 points
  + Quizzes: 25 – 50 points
  + Projects: 100 points
    - There will be one project each six weeks
  + Lab: 25 – 50 points

**Classroom Technology Rules:**

Rules:

1. Students will not use electronic devices, for any purpose, during teacher led instruction
2. Students will be granted usage permission at the discretion of the teacher
3. In cases of personal or family emergencies, the teacher must be notified prior to the beginning of class
4. Students must ask permission before charging any devices

**Please keep this copy of the syllabus for your records. There will also be a copy online. Complete the portion below and return it in class.**

**Parent Name(s):**

**Parent Email:**

**Parent Phone Number(s):**

**Preferred form of contact:**