

**Course Outline for Science 20F**  
**Biology Lab**  
 Ms. Kerelchuk January 2020

<b>Units</b>	<b>Approximate Timeline</b>
Unit 1: Chemistry in Action	30 classes
Unit 2: Dynamics of Ecosystems	14 classes
Unit 3: In Motion	30 classes
Unit 4: Weather Dynamics	11 classes

### Objectives

<b>Unit:</b>	Chemistry in Action
Topics:	chemical reactions, naming binary compounds, balancing chemical equations, classifying reaction types, acids and bases, environmental implications
<b>Unit:</b>	Dynamics of Ecosystems
Topics:	relationships in ecosystems, sustainability, population dynamics, biodiversity, biogeochemical cycles, bioaccumulation in food chains
<b>Unit:</b>	In Motion
Topics:	the physics of motion, relationships among displacement, velocity, acceleration and time, inertia, force, impulse and momentum, car collisions and braking distance
<b>Unit:</b>	Weather Dynamics
Topics:	meteorological information, climate change, severe weather phenomena

### Evaluation

Task	Weighting
Knowledge and Understanding	70%
Scientific Skills and Inquiry	25%
Science, Technology, Society and the Environment	5%
<b>Final Exam</b>	<b>20% (not included in the above weighting)</b>

### Materials

Bring the following materials to **every** class: your science binder, red and blue pens, pencil, eraser, a scientific calculator and a ruler. You may also be asked to bring other materials for specific activities or assignments. You will not be signing out a textbook. You will use one in class from time to time and will be able to sign it out if necessary.

## A Few Things You Need to Know About Me....

### Who...

- I graduated from university in 2005 with my science degree (biology, mathematics) and in 2008 with my education degree. I have been at Stonewall Collegiate since the fall of 2008.

### Where...

- I can be found in the Biology Lab.
- Our class will be set up on Edmodo. I will put important information, announcements, and answer keys on there.

### When...

- Drop by the Bio Lab in the morning or at lunch if you need help, have a question, or want to chat.
- I am happy to help you out at lunch. Please set up an appointment with me because sometimes I may have meetings or other commitments!
- If you miss a day, please check in with me, on Edmodo, or with a friend before our next class. Do not wait to ask me for what you missed when you return. This will help you to not fall behind.

### What...

- In order to make the most of our time together, I have a few important rules:

#### **1. The Golden Rule**

- Treat others as you wish to be treated. In this classroom, we treat each other kindly and with respect. We listen to what other people are saying, we use our manners and we cooperate with one another.
- Using manners includes...
  - knocking on the door if you are late and wish to come in
  - saying please and thank you
  - cleaning up after yourself
  - returning borrowed items directly to me/my desk
  - appropriate use of cell phones
    - Cell phones are a major disruption to our learning. They will not be permitted during class time unless I give you permission to use it for an educational purpose (access Edmodo, research a topic being discussed in class, etc). Please keep your cell phone away in a phone pouch provided. Also, please remember that you must never take photos or videos of people without their permission.

#### **2. Set Yourself Up to Succeed**

- Come to class regularly and participate. I can guarantee that you will do well if you show up and put in an effort.

#### **3. Take Responsibility**

- Let me know ahead of time if you will be missing a test.
- Schedule a time to make up missed work.
- Don't allow yourself to fall behind. Set up a time with me if you are having difficulty before it affects your mark.

#### **4. Safety First**

- The science lab is a potentially dangerous place. Always follow lab safety rules and treat every chemical as though it were hazardous.
- Do not touch equipment unless you receive instructions to do so.
- No food or drink in the lab, other than bottled water.

### **Completion of course work (assignments, projects, labs, quizzes, tests, etc.)**

1. Your work needs to be handed in on the due date, unless prior arrangements have been made with me.
2. Any work not submitted by the communicated due date will be considered late and you will need to abide by SCI's assessment policy (see below). This includes work missing from when you have had any absences, excused or unexcused.
3. If you have been away, you should
  - a. see me immediately upon return to the building to arrange to complete missed work.
  - b. be prepared to write any quizzes or tests upon your return.
4. Late original assignments will not be accepted after the procedure below has been carried out.

The following is taken from SCI's assessment policy and will be adhered to in this course:

#### **Creating the Grade:**

- Grades will be based only on the demonstration of an individual student's knowledge and skills of the outcomes for each course:
  - Only items marked by the teacher will determine a student's grade
  - Grades are based on individual student achievement, not group achievement
- When determining a grade, the teacher will decide whether there is sufficient evidence of achievement. If not, the mark can be reported as an "*IN*" (incomplete). Teachers will determine with students and parents/guardians a plan for completion of work.

#### **Establish, communicate, and apply consequences for late and missing work:**

Students must understand that there will be consequences for not completing assignments that provide evidence of learning or for submitting those assignments late. If, after establishing and clearly communicating expectations regarding assignments, setting and communicating timelines for assignments, and supporting student learning using the strategies provided above, student work is still late or missing; teachers will apply the following strategies:

- confer with the student and, where appropriate, with the student's parent/guardians about the reasons for not completing the assignment, and consider the legitimacy of reasons;
- develop an agreement with the student to complete the work;
- require the student to complete missing work during lunch by attending the Assessment Completion Centre (ACC).

If, after completing the steps above, the student does not hand in the assessment by the agreed upon deadline, a zero may be used as a mark as the student has not demonstrated any knowledge or skill of the outcome.

The consequence for not completing work is to complete the work. Late marks will not be subtracted from an assignment as it is purely punitive and doesn't measure learning. The assignment will either be completed or given a zero.

The full policy is available on the SCI website under "Student Handbook."