

Mrs. Dupre

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Grade 10 Science 20F

Science 20F – Course Outline

Credit Value: 1 Credit**Course Code:** 0120**Prerequisites:** None**Required Materials:** Binder, paper, pen, calculator**Textbook:** Ritter, B et. al. (2001). *Science 10*. Nelson Thomson Learning.
Scarborough, Ontario.

Tidbits of wisdom from the world of science...

“The most exciting phrase in science is not “Eureka, I’ve found it!”, but rather “Hmm, that’s not supposed to happen”.

- Isaac Asimov

“The goal of science and engineering is to build better mousetraps. The goal of nature is to build better mice”

- Author Unknown

Course Description

Grade 10 science covers a wide variety of scientific topics from each of the major science disciplines. There are sections on ecosystems and animal diversity, chemistry and chemical applications, physics and motion, and weather. The course is designed to continue building upon the idea of the scientific process, as well as to help foster the practice of scientific inquiry.

Through various research, presentation, and practical assignments, students will develop a better understanding of the world around them through the scientific lens. The goal of the course is to develop student’s basic understanding of scientific principles, while fostering an interest in further studies.

Course Timeline

Unit 1 Ecology

**Food webs and ecosystems*

**Population Dynamics*

Unit 2 Chemistry In Action

**Period Table*

**Balancing Equations*

**Classifying Reactions*

Unit 3 Physics – In Motion

**Graphing Motion*

**Problem Solving*

**Forces of Motion*

Unit 4 Weather

**Climate*

**Storm Formation*

**Climate Change*

Assessment – curriculum available at <https://www.edu.gov.mb.ca/k12/cur/index.html>
Course Work (70%) – Each topic will have multiple formative assessments to help students recognize areas of strength and areas to continue to improve on. We will also complete a performance assessment in most of the topics, some of which will be marked using a rubric, while others are used as formative feedback. There will also be at least one summative assessment in each topic that will be weighted based on the amount of time spent on that section. Larger sections that the class finds interesting will have larger assessments worth a greater percentage of the course mark. Students will have the opportunity to complete a number of research projects throughout the course. Final mark will be a percentage grade.

Final Exam (30%) – The final exam is cumulative, and will focus on material covered on various topic assessments. There will also be questions regarding the performance assessments as well as research projects.

Classroom Expectations

- Arrive on time and be prepared to learn, work hard and have fun.
- Complete all homework assignments. Homework will be assigned when students are not able to complete their assignments in class or if students are absent.
- Following the deadline of any assignment, the student's mark will be recorded as zero. Upon completion of the assignment, it will be graded and recorded. At reporting periods, a final deadline will be given for the evaluations to take effect on the report card for that reporting period.
- If you are absent (due to illness) or know you will be absent (due to a field trip or for personal reasons), it is your responsibility to catch up. If you are absent on the day of a test, it is your responsibility to arrange a time to write the test on another date. This should be done immediately on your return to school.
- Plagiarism will not be tolerated and any student found to have plagiarized work will receive a mark of zero until the assignment is redone. Any plagiarism will result in a conversation with the student, classroom teacher, parents/guardians, and possibly administration.
- Extra Help – If students need extra help, I am available during most lunch hours upon request, and arrangements can also be made before and after school.
- Know and abide by the code of conduct (available in the student handbook).
- As per the student code of conduct, senior students are only allowed to use cell phones during their spares, breaks, at lunch, or if prior permission for an activity has been granted by the Principal. Cell phones are to be handed in at the beginning of all classes, and will be returned at the end of class.