

# Chemistry 11-2

Course Outline<sup>1</sup>  
2020-2021

Bonar Law Memorial School  
C. Wilson  
carolyn.wilson@nbed.nb.ca

## Course Description

This course explores the structure of matter and the fundamentals of atomic bonding. It also introduces students to a quantitative aspect of chemistry through molecular mass and stoichiometry. The course focuses on three families of outcomes including knowledge, skills and science, technology, society and the environment (STSE).

## Key Units of Discussion

Unit 1 – From Structures to Properties

Unit 2 – Stoichiometry

## Evaluation<sup>2</sup>

Tests and Quizzes – 40%

Assignments – 10%

Projects, presentations and reports – 20%

Exam or Final Assessment – 30%

## Our Core Values

**Grit** – Work harder than you think you need to! Try your best on days that you aren't in-school.

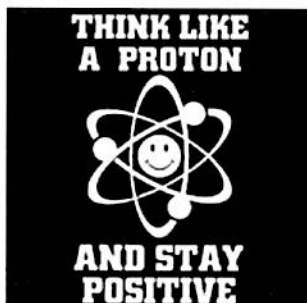
**Empathy** – Listen to others. Go out of your way to help someone who is struggling.

**Accountability** – Own your successes and failures. Arrange extra-help if you need it.

**Respect** – Respect other students, the teacher and course materials.

<sup>1</sup>Course outline subject to change

<sup>2</sup>Late Assignment Policy – For every late day, 10% will be deducted from the mark. If a student is absent on a due date, a written legitimate excuse from a parent or guardian must be presented upon the students' return, or the late-date policy will apply. A students' mark cannot be lower than 60% given that the student deserves a passing grade. All work must be handed in NO LATER than one week after the given due date. Due dates will be clearly posted on-line and in-class.





# Chemistry 12-2

Course Outline<sup>1</sup>

2020-2021

Bonar Law Memorial School

C. Wilson

[carolyn.wilson@nbed.nb.ca](mailto:carolyn.wilson@nbed.nb.ca)

## Course Description

This course builds on stoichiometric fundamentals covered in Chemistry 11-2. Main areas of study include thermochemistry, reaction kinetics, and organic chemistry. Throughout the semester, student learning will be balanced between the development of chemistry-related knowledge and skills, as well as the developing an understanding of the interactions between chemistry, society and technology (STSE). Student assessment will include traditional pen-and-paper testing, researching projects that introduce students to primary peer-reviewed scientific literature and experimental work requiring basic data analysis, protocol development and troubleshooting.

## Key Units of Discussion

Unit 1 – Thermochemistry (September to Mid-October)

- Reference: Prentice Hall Chemistry (2008) Chapter 17

Unit 2 – Reaction Kinetics & Equilibrium (Mid-October to November)

- Reference: Prentice Hall Chemistry (2008) Chapter 18

Unit 3 – Organic Chemistry (December and January)

- Reference: Prentice Hall Chemistry (2008) Chapter 22 and 23

## Evaluation<sup>2</sup>

Tests and Quizzes – 40%

Assignments – 10%

Projects, Presentations and Reports – 20%

Exam or Final Assessment – 30%

## Our Core Values

**Grit** – Work harder than you think you need to! Try your best with distance learning.

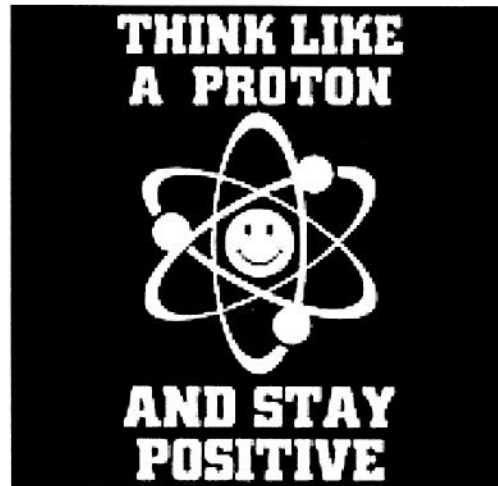
**Empathy** – Listen to others. Go out of your way to help someone who you see is struggling.

**Accountability** – Own your successes and failures. Arrange extra-help if you need it – there will be time available at lunch for extra-help upon request.

**Respect** – Respect other students, the teacher and course materials.

<sup>1</sup>Course outline subject to change

<sup>2</sup>**Late Assignment Policy** – For every late day, 10% will be deducted from the mark. If a student is absent on a due date, a written legitimate excuse from a parent or guardian must be presented upon the students' return, or the late-date policy will apply. A students' mark cannot be lower than 60% given that the student deserves a passing grade. All work must be handed in **NO LATER** than one week after the given due date. Due dates will be clearly posted on-line and in-class.



# **Foundations of Mathematics 110**

Course Outline<sup>1</sup>

Bonar Law Memorial School

2020-2021

C. Wilson

[carolyn.wilson@nbed.nb.ca](mailto:carolyn.wilson@nbed.nb.ca)

## **Texts and Resources**

- Foundations of Mathematics 11 (Nelson 2011)
- Pens, pencils, erasers, binder, loose leaf and graph paper
- A **scientific calculator** is ESSENTIAL!

## **Units of Study**

### **Unit 1 – Relations and Functions (RF)**

RF1 – Model and solve problems that involve systems of linear inequalities in two variables.

RF2 – Demonstrate an understanding of the characteristics of quadratic functions, including vertex, intercepts, domain and range, axis of symmetry.

### **Unit 2 – Geometry (G)**

G2 – Solve problems that involve the properties of angles and triangles.

### **Unit 3 – Number (N)**

N1 – Analyze costs and benefits of renting, leasing and buying.

### **Unit 4 – Logical Reasoning (LR) (throughout semester)**

LR1 – Analyze and prove conjectures using logical reasoning, to solve problems.

LR2 – Analyze puzzles and games that involve numerical reasoning, using problem-solving strategies.

## **Evaluation<sup>2</sup>**

Semester – 70%

- Tests & Quizzes – 85%
- Assignments – 15%

Exam or Final Assessment - 30%

## **Our Core Values**

**Grit** – Work harder than you think you need to! Try your best with distance learning!

**Empathy** – Listen to others. Go out of your way to help someone in need, especially if you see them struggling.

**Accountability** – Own your successes and failures. Arrange extra-help if you need it - there will be opportunities for extra help at lunch.

**Respect** – Respect other students, the teacher and course materials.

<sup>1</sup>Course outline subject to change

<sup>2</sup>Late Assignment Policy – For every late day, 10% will be deducted from the mark. If a student is absent on a due date, a written legitimate excuse from a parent or guardian must be presented upon the students' return, or the late-date policy will apply. A students' mark cannot be lower than 60% given that the student deserves a passing grade. All work must be handed in NO LATER than one week after the given due date. Due dates will be clearly posted on-line and in-class.



**Good luck and have fun!**

# Human Physiology 110

Course Outline<sup>1</sup>

Bonar Law Memorial School

2020-2021

C. Wilson

carolyn.wilson@nbed.nb.ca

## Course Description

The goal of this course is to build an understanding of the physiology of the human body and a complex dynamic organism that is self-contained but impacted by and responsive to the outside world. The study of the human body is placed in the context of overall health and the interaction between mental, social, and physical wellness, making links with previous studies of nutrition and fitness. The course focuses on developing an understanding of the structure and function of each human body system with relation to other systems and the overall health of the student.

## Resources

Students must have a binder or duo tang, in which handouts can be placed, pens/pencils, a ruler and eraser

## Units of Study

Unit 1: Wellness

Unit 2: Human Digestive System

Unit 3: Human Skeletal, Muscular and Integumentary Systems

Unit 4: Human Circulatory and Respiratory Systems

Unit 5: Human Endocrine and Reproductive Systems

Unit 6: Human Nervous System

## Evaluation<sup>2</sup>

Tests and Quizzes: 30%

Assignments, Projects and Lab Reports: 30%

Personal Wellness Plan: 10%

Exam or Final Assessment: 30%

## **Our Core Values**

**Grit** – Work harder than you think you need to! Try your best on days that you aren't in-school.

**Empathy** – Listen to others. Go out of your way to help someone who is struggling.

**Accountability** – Own your successes and failures. Arrange extra-help if you need it.

**Respect** – Respect other students, the teacher and course materials.

<sup>1</sup>Course outline subject to change

<sup>2</sup>Late Assignment Policy – For every late day, 10% will be deducted from the mark. If a student is absent on a due date, a written legitimate excuse from a parent or guardian must be presented upon the students' return, or the late-date policy will apply. A students' mark cannot be lower than 60% given that the student deserves a passing grade. All work must be handed in NO LATER than one week after the given due date. Due dates will be clearly posted on-line and in-class.