

## COURSE OUTLINE

**COURSE:** Chemistry 112

**TEACHER:** Mr. Finnamore BSc. Bed. (I may be reached at school at 575-6020)

**TEXT:** Prentice Hall Chemistry (*These books are over \$100 to replace*)

**EQUIPMENT:** pencil, scientific calculator, three ring binder, ruler.

**EVALUATION:**

- Assignments/Labs/Quizzes 30%
- Tests 40%
- Final Exam 30%

**PREREQUISITES:** Science 10; NRF & GMF Math 10

**PRE/CO-REQUISITE:** Foundations Math 110

**OVERVIEW:** Chemistry 112 is recommended for students who may be pursuing science, engineering or a related field at the university level. This course is the first of two sequential Chemistry courses and exposes students to the development of atomic theory, the classification and structure of matter, elements and compounds, bonding, molecular shape, the mole, chemical changes, stoichiometry and gases. Students will be expected to complete several lab activities. Curriculum Documents may be found at [www.gnb.ca/0000/anglophone-e.asp](http://www.gnb.ca/0000/anglophone-e.asp)

- (1) Assignments are normally one or two per week. If an assignment is not handed in the relevant test will be worth more. Extensions will be granted for illness (bring a note) or at the discretion of the teacher.
- (2) If you know that you will not be present on the day that an assignment is due, make arrangements with me before that day, **NOT** after.
- (3) If I determine that you are habitually missing assignments, your parents maybe informed by a letter or phone. However, you are a young adult and will be treated with respect. Your schooling is your responsibility and this course is designed to prepare you for university, should you decide to go.
- (4) For full value you must **SHOW ALL YOUR WORK** (an answer is not enough since you will have access to the answers before the assignment is handed in). Give your answer in a **COMPLETE SENTENCE** when doing word problems. Some questions may require you to write more than a single sentence.
- (5) *If you miss 3 labs you will not receive credit for the course.*
- (6) Extra help can be obtained at noon or Monday, Wednesday and Thursday after school.
- (7) School polices will be sent home by synervoice. Paper copies are available by request.

- RULES:**
1. Do not be late. If you are habitually late you may not be allowed into class when you are late.
  2. Have all of the equipment that you need. If you habitually leave needed items in your locker, you may not be allowed to get them.
  3. Hand in assignments on time. See above.
  4. If you miss a class without a valid excuse you will lose credit for any test or assignment done or due that day.
  5. Be polite and respect others and do not talk while I or others are talking.
  6. Do not waste class time. This only makes homework more difficult to complete.

<b>TOPICS:</b>	Chapter	2	Matter	1 week
	Chapters	4,5,6	Elements & Atoms	2 weeks
	Chapters	7,8	Chemical Bonds	2 weeks
	Chapter	9	Naming Compounds	2 weeks
	Chapter	10	Chemical Quantities	2 weeks
	Chapter	11	Chemical Reactions	2 weeks
	Chapter	12	Stoichiometry	3 weeks
	Chapters	13,14	Gases	3 weeks
	Chapters	15,16	Solutions	2 weeks

**LABS AND DEMONSTRATIONS:**

- Chapters 4,5,6 - Flame Test Text book p.142
- Chapters 7,8 - electrical conductivity lab Nelson p.95  
 - building molecular models
- Chapter 10 - Determine the valance of a metal Merrill #7  
 - Determine the formula of a hydrated crystal Merrill #8  
 - Hoffman apparatus
- Chapter 11 - Evidence of chemical reactions Nelson p.136  
 - Conservation of mass Merrill Lab 2  
 - Balanced chemical reactions Alchem 10 C20
- Chapter 12 - Mole relationship in a chemical Merrill #11  
 - Decomposing Malachite Nelson p.221
- Chapters 13,14- Boyle's Law  
 - The molar mass of butane Nelson p.214
- Chapters 15,16- Determine the concentration of a solution.

Parent Signature: \_\_\_\_\_