

COURSE OUTLINE

COURSE: Chemistry 122

TEACHER: Mr. Finnermore 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%

PREREQUISITE: Chemistry 112; Foundations Math 110

OVERVIEW: Chemistry 122 is recommended for students who are interested in pursuing science, engineering or related field at the postsecondary level. Students must have previously completed Chemistry 11 and Math Foundations 11 as previous concepts will be applied to new topics including thermochemistry, kinetics & equilibrium, acids & bases and organic chemistry. Students will be expected to complete several lab reports. Curriculum Documents may be found at 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 may be informed by a letter or phone call. You will be treated as a young adult and with respect. Your schooling is your responsibility and this course is designed to prepare you for university, if you should 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 or Thursday after school.
- (7) School polices will be sent home by synervoice. Paper copies are available by request.

TOPICS:	Chapter 17 Thermochemistry	4 weeks
	Chapter 18 Reaction Rates & Equilibrium	3 weeks
	Chapter 19 Acids Bases & Salts	3 weeks
	Chapter 20 Redox reactions	2 weeks
	Chapter 22, 23 Organic Chemistry	3 weeks

- 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.

LABS AND DEMONSTRATIONS:

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|-------------|---------------------------------------------------------------------|
| Chapter 17 | - Specific of a metal - Merrill Lab 5 |
| | - Energy and the physical state of water |
| | - Molar Enthalpy of Solution - Nelson investigation p. 357 use NaOH |
| | - Enthalpy of a chemical reaction - Merrill Lab 31 |
| | - Hess's Law - Nelson investigation p. 379 |
| Chapter. 18 | - Le Chatelier's Principle - Nelson investigation p. 494 |
| Chapter 19 | - Testing Arrhenius's Definitions - Nelson investigation 518 |
| | - Titration of an Acid - Nelson investigation p. 246 |
| Chapter 20 | - Several demos |
| Chapter 22 | - Organic Compounds using Model Kits - Nelson investigation p. 292 |
| | - Isomers - Nelson investigation p. 305 |

Parent/Guardian: _____