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## CHEM 0983: Chemistry 12 - Part 1

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### EFFECTIVE DATE

January 2017

### DEPARTMENT

CF - Science

### DESCRIPTION

This course examines the properties of matter. Core topics include safety in a laboratory environment, thermochemistry, the gas laws and reaction kinetics. Optional topics include the electronic structure of atoms, the periodic table and properties of elements, chemical bonding and molecular shapes. Chemistry 0983 and Chemistry 0993 may be taken at the same time or in any order. Chemistry 0983 and Chemistry 0993 are required for completion of ABE Provincial level Chemistry.

### CREDITS

4.0

### YEAR OF STUDY

ABE Provincial Level(Grade12)

### PREREQUISITES

English 10 or equivalent; Chemistry 11 or equivalent; Pre-calculus 11 successfully completed within the last 3 years, a minimum score of 72% on the Intermediate Algebra Math Assessment, or equivalent. If the Math prerequisite is not met, MATH 0861 must be taken at the same time as CHEM 0983. English 11 strongly recommended

### COREQUISITES

None

### COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Students will meet the learning outcomes for ABE provincial Level Chemistry as stated in the most recent ABE Articulation Handbook.

## PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

## HOURS

Lecture: 96

Lab: 96

## INSTRUCTIONAL STRATEGIES

Class-based: Chemistry 0983 uses a lecture based model. A significant amount of class time will be spent on hands-on activities, concept-development worksheets and problem solving. A minimum of four labs will be conducted and will relate to the core topics.

## GRADING SYSTEM

Letter Grade (A-F)

## PASSING GRADE

D

## EVALUATION PLAN

Type	Percentage	Assessment activity
Assignments	10	
Lab Work	25	including formal and informal lab reports
Exam	45	three tests at 15% each
Quizzes/Tests	20	a number of quizzes for a total of 20%

## COURSE TOPICS

- Safety Measures in a Laboratory Environment
- Thermochemistry
- Gases
- Reaction Kinetics
- Electronic Structure of Atoms - optional
- Periodic Table and Properties of Elements - optional
- Chemical Bonding - optional
- Molecular Shapes - optional

## LEARNING RESOURCES

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:  
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

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