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CHEM 0871: Chemistry 11 Part 2

EFFECTIVE DATE

October 2020

DEPARTMENT

CF - Science

DESCRIPTION

This course introduces students to the basic concepts of chemistry, including the scientific method and measurement, safety measures in a laboratory environment, early atomic theory and structure, modern atomic theory, chemical bonds, organic chemistry, water and liquids, solutions, acids-bases and salts and nuclear chemistry. Both Chemistry 0861 and Chemistry 0871 are required for completion of ABE Advanced level Chemistry. It is recommended that Chemistry 0861 be taken before or at the same time as Chemistry 0871

CREDITS

4.0

YEAR OF STUDY

ABE Advanced Level(Grade11)

PREREQUISITES

English 10 or equivalent Precalculus 11 (successfully completed within the last 3 years), or a minimum score of 72% on the Intermediate Algebra Math Assessment, or equivalent If the math prerequisite is not met, MATH 0861 and 0871 must be taken at the same time as CHEM 0861 and 0871.

COREQUISITES

None

COURSE LEARNING OUTCOMES

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

- Students will meet the learning outcomes for ABE Advanced Level Chemistry as stated in the most recent ABE Articulation Handbook. <https://www.bctransferguide.ca/search/abe> (2020 edition)

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 96

Lab: 64

INSTRUCTIONAL STRATEGIES

Chemistry 0871 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	5	
Lab Work	20	including formal and informal lab reports
Exam	65	four tests at 15% to 20% each.
Quizzes/Tests	10	5 quizzes for a total of 10%

COURSE TOPICS

- Scientific Method and Measurements
- Safety Measures in a Laboratory Environment
- Early Atomic Theory and Structure
- Modern Atomic Theory
- Chemical Bonds
- Organic Chemistry
- Water and Liquids
- Solutions
- Acids, Bases and Salts
- Nuclear Chemistry - 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>.

Broadway campus

1155 East Broadway
Vancouver, B.C. Canada
V5T 4V5

Downtown campus

250 West Pender Street
Vancouver, B.C. Canada
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Annacis Island campus

1608 Cliveden Avenue
Delta, B.C. Canada
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