

UNIVERSITY COLLEGE OF THE FRASER VALLEY

COURSE INFORMATION

DISCIPLINE/DEPARTMENT: College & Career Preparation **IMPLEMENTATION DATE:** Winter 1996

Revised: _____

| | | |
|---------------------------------|-------------------------------------|---------------------|
| CHEM 071 | <u>Physical Sciences (Grade 10)</u> | |
| SUBJECT/NUMBER OF COURSE | DESCRIPTIVE TITLE | UCFV CREDITS |

CALENDAR DESCRIPTION:

RATIONALE: Science 071 has been traditional - laboratory lecture format course for 20 years. The content is split between Life Science with an emphasis on Human Biology and Introductory Chemistry both at the Grade 10 level. Our proposal is to modularize the course into two parts following the natural division that now exists in course content. This will allow adult students who need Chemistry 083 to take Science 071 - Chemistry for preparation and will increase student success in that course.

It will also allow those students who want an introduction to Human Biology but do not want Chemistry to access that part of the course.

The life science portion of the course will run 10 weeks and the physical science 7 weeks.

COURSE PREREQUISITES: None

COURSE COREQUISITES: None

| | | | | | | |
|--|-------------------------|----|-----|----------------------------------|--|---------------|
| HOURS PER TERM FOR EACH STUDENT | Lecture | 24 | hrs | Student Directed Learning | | hrs |
| | Laboratory | 8 | hrs | Other - specify: | | |
| | Seminar | | hrs | | | |
| | Field Experience | | hrs | | | |
| | | | | TOTAL | | 32 HRS |

MAXIMUM ENROLMENT: 25

Is transfer credit requested? Yes No

AUTHORIZATION SIGNATURES:

| | |
|---|---|
| Course Designer(s): Tom Davis/Donna Costello | Chairperson: Curriculum Committee |
| Department Head: | Dean: |
| PAC: Approval in Principle (Date) | PAC: Final Approval: November 22, 1995 (Date) |

CHEM 071

NAME & NUMBER OF COURSE

SYNONYMOUS COURSES:

(a) replaces Science 071
(course #)

(b) cannot take _____ for further credit
(course #)

SUPPLIES/MATERIALS:

Laboratory supplies produced by department.

TEXTBOOKS, REFERENCES, MATERIALS (List reading resources elsewhere)

Chemistry – Physical Science work – Text Amsco ISBN
Instructor Prepared Laboratory Manual.
Chemistry Videos.

OBJECTIVES:

To prepare students for Chemistry 083 with emphasis on the periodic table and chemical reactions.

METHODS:

Lecture/Small Group Discussion/Laboratories

STUDENT EVALUATION PROCEDURE:

Unit Tests and Final Examination
Homework and Laboratory Assignments
CHAPTER TESTS 60 points
Chemistry Final 25 points
Homework/Laboratories 15 points

CHEM 071

NAME & NUMBER OF COURSE

COURSE CONTENT

1. Matter: The Nature of Matter/The mixtures of matter/chemical/physical properties, chemical terms. Laboratories: Finding the Density of an object and chemical changes.
2. The Composition of Matter: Elements/compounds and mixtures. The structure of matter. Emphasis on the Periodic Table, types of bonding. Laboratories: A Product of burning, attraction and repulsion of matter.
3. The Chemistry of Elements, The Chemistry of Compounds, the Reactions of matter, Acids Bases and Salts. Laboratories: Decomposition of a compound; Testing for Acids and Bases.