

COURSE IMPLEMENTATION DATE:	Winter 1996
COURSE REVISED IMPLEMENTATION DATE:	Sept 2005
COURSE TO BE REVIEWED:	Nov 2008
(Four years after implementation date)	(MONTH YEAR)

OFFICIAL COURSE OUTLINE INFORMATION

Students are advised to keep course outlines in personal files for future use.
Shaded headings are subject to change at the discretion of the department and the material will vary - see course syllabus available from instructor

FACULTY/DEPARTMENT:	College And Career Preparation	
CHEM 071	N/A	2
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS
	Physical Sciences (Grade 10)	
COURSE DESCRIPTIVE TITLE		

CALENDAR DESCRIPTION:

This half-semester course consists of science and technology in the areas of introductory chemistry and physics. Laboratory exercises are included.

PREREQUISITES: **Individual CCP assessment**
COREQUISITES: **none**

SYNONYMOUS COURSE(S)	SERVICE COURSE TO:
(a) Replaces: none	N/A
(Course #)	(Department/Program)
(b) Cannot take: none for further credit.	N/A
(Course #)	(Department/Program)

TOTAL HOURS PER TERM: 45	TRAINING DAY-BASED INSTRUCTION
STRUCTURE OF HOURS:	LENGTH OF COURSE: 7.5 weeks
Lectures: 22.5 Hrs	HOURS PER DAY: 3
Seminar: Hrs	
Laboratory: 11.25 Hrs	
Field Experience: Hrs	
Student Directed Learning: 11.25 Hrs	
Other (Specify): Hrs	

MAXIMUM ENROLLMENT:	24
EXPECTED FREQUENCY OF COURSE OFFERINGS:	once each semester
WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

AUTHORIZATION SIGNATURES:

Course Designer(s):	Chairperson:
Greg St. Hilaire	(Curriculum Committee)
Department Head:	Dean:
Vicki Grieve	D.J. Sandhu
PAC Approval in Principle Date:	PAC Final Approval Date: November 26, 2004

LEARNING OBJECTIVES / GOALS / OUTCOMES / LEARNING OUTCOMES:

SCIENCES: CHEMISTRY

Goal Statement

Chemistry is an essential part of the everyday world. A knowledge and understanding of its principles is the base on which applications in health, the environment, and industrial development are founded. The chemistry course will foster understanding of science as a vital part of a sustainable society and provide a basis for further academic and career/vocational training.

Learning Outcomes

Chemistry learners will:

- Obtain the prerequisite body of knowledge and skills that will provide a basis for further academic and career/ vocational training
- Appreciate and apply the chemistry of everyday life
- Apply the scientific method to investigations of all phenomena
- Communicate effectively, particularly to the scientific community, using the language of chemistry
- Carry out all duties in an ethical, professional manner, including the collection and treatment of data
- Work effectively as a member of a team
- Handle equipment and chemicals in a safe and effective manner with regard to their own safety and the safety of others

METHODS:

Lecture/Small Group Discussion/Laboratories

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Credit can be awarded for this course through PLAR (Please check:) Yes No

METHODS OF OBTAINING PLAR:

Challenge Exam

TEXTBOOKS, REFERENCES, MATERIALS:

[Textbook selection varies by instructor. An example of texts for this course might be:]

Physical Science Work Text. Text Amsco ISBN 0-087720-020-3
Instructor Prepared Laboratory Manual
Chemistry Videos

SUPPLIES / MATERIALS:

Laboratory specimens/supplies produced by department

STUDENT EVALUATION:

[An example of student evaluation for this course might be:]

Chapter Tests: 50 %
Final Biology Exam: 25 %
Homework/Laboratories: 25 %

COURSE CONTENT:

[Course content varies by instructor. An example of course content might be:]

1. Matter:
 - the nature of matter
 - the mixtures of matter
 - physical properties and chemical termsLaboratory: Finding object density and chemical changes
2. Composition of matter:
 - elements, compounds and mixtures
 - structure of matter
 - the Periodic Table and types of bonding

Laboratory: A product of burning; Attraction and repulsion of matter

3. Chemistry of elements and compounds

- reactions of matter

- acids, bases and salts

Laboratory: Decomposition of a compound; Testing for acids and bases