



# U.S. INTERNATIONAL CHRISTIAN ACADEMY

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<http://www.usicahs.org/Library.html>

<http://www.usicahs.org/Curriculum.html>

## USICA Course Outline/Syllabus

**Grade/Course: CHEMISTRY I and Lab 2003340**

**Grade Level: 12<sup>th</sup> High School**

**A)TEXT BOOK: Chemistry I : CHEMISTRY 2012 STUDENT EDITION by Savvas Learning Co (Author)**

**ISBN-13: 978-0132525763 - ISBN-10: 0132525763**

<b>Order No.:</b> 1	<b>Code:</b> CHE2003	<b>Class Type:</b> Online
<b>Resources:</b> Text book Teacher works CD Teacher interactive online Links Skype  Skype Conference Zoom, Social Media	<b>Length:</b> 1 year	<b>Instructional Supports:</b> Textbook, Magazines, Journals, Websites Links, Video Conference, Comprehensive Reading Plan, NASA, Discovery Channel, Royal society of Chemistry, Public Television, Nova T.V., Smithsonian Museum, National Science Museum N.Y., Science foundation, NSTA, Skype, Zoom, e-Library, Social Media
<b>Area:</b> Science	<b>Credits:</b> 1	<b>Total Numbers of class hours:</b> 300 hrs
<b>Type:</b> Mandatory	<b>Standards:</b> Florida Standards <a href="http://www2.dadeschools.net">www2.dadeschools.net</a>	<b>Prerequisite:</b> Students must have successfully passed a Science class in middle/high school.

## **B) Description:**

This one-year course of emphasizes the study of the properties and nature of matter and energy. This course explores the periodic table, chemical bonding and including chemical equations, reaction kinetics, and the processes of reactions. This course offers a solid understanding of the fundamentals concepts of chemistry. Problem solving is presented logically one step at a time.

## **C) Objectives:**

1. To develop in all students an appreciation and solutions to all types of Chemistry based interactions and problems.
2. To promote in all students an introduction to the study of Chemistry.
3. to promote the technology tools designed to inspire today's chemistry students.

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## E. Methodology

E) Academic Methodology:	
Tests	30%
Writing Reports	20%
Homework	5%
Class Work	20%
Reading Assignment	25%

## F) Book Reference:

1. Chemistry: Concepts and Problems: A Self-Teaching Guide (Wiley Self-Teaching Guides) [Paperback] Clifford C. Houk and Richard Post (Authors)
2. Homework Helpers: Chemistry [Paperback] Greg Curran (Author)
3. Chemistry [Hardcover] by Steven S. Zumdahl (Author)
4. Chemistry, Grades 9 - 12 (The 100+ Series) Paperback – January 15, 1999 by Joan Distasio (Author)

## H) Web Reference:

[www.acs.org](http://www.acs.org)  
[www.Chemistry.com](http://www.Chemistry.com)  
[www.chemistry24.com](http://www.chemistry24.com)  
[www.sciencespot.net/Pages/kdzchem.html](http://www.sciencespot.net/Pages/kdzchem.html)  
[www.chemtopics.com/links.htm](http://www.chemtopics.com/links.htm)  
[www.iv.ac.uk/Chemistry/Links/links.html](http://www.iv.ac.uk/Chemistry/Links/links.html)  
[www.tvmuse.eu/tv-shows/Chemistry\\_26950](http://www.tvmuse.eu/tv-shows/Chemistry_26950)  
[www.chem.ucla.edu/chempointers.html](http://www.chem.ucla.edu/chempointers.html)  
[www.chemtopics.com/wwwchem.htm](http://www.chemtopics.com/wwwchem.htm)  
[www.101science.com/Chemistry.htm](http://www.101science.com/Chemistry.htm)

## I. Journals:

American Scientist  
Science  
Scientific American  
Chemistry Today

### **J. Magazines:**

Smithsonian magazine, published by the Smithsonian Museum  
American Scientist magazine  
Discover magazine

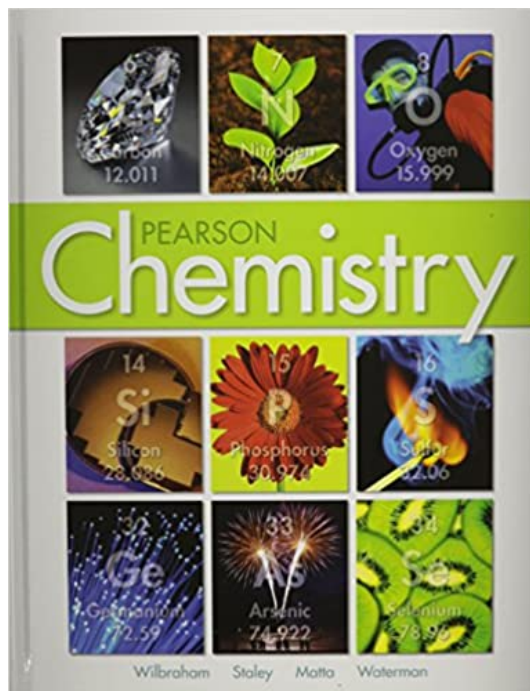
### **K. Organizations**

Science Foundation  
National Chemistry Association  
Association of Chemistry Teachers  
N.A.S.A.

### **M. Comprehensive Reading Plan**

Students are required to read at least 1 book or their equivalent during each class as independent reading at-home. Students must also read for 30 minutes at home as part of their daily homework assignment in all subjects. Check your Class Reading Assignment at [www.USICAhs.org/CURRICULUM](http://www.USICAhs.org/CURRICULUM) and check free e-books at [www.openlibrary.org](http://www.openlibrary.org).

**BOOK:**



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**ACADEMIC MISCONDUCT:**

Academic misconduct includes cheating (using unauthorized materials, information, or study aids in any academic exercise), plagiarism, falsification of records, unauthorized possession of examinations, intimidation, and any and all other actions that may improperly affect the evaluation of a student's academic performance or achievement, or assisting others in any such act or attempts to engage in such acts. Academic misconduct in any form is inimical to the purposes and functions of the school and therefore is unacceptable and prohibited.

Any faculty member, administrator or staff member may identify an act of academic misconduct and should report that act to the department head or administrative supervisor.

Students violating the standards of academic honesty are subject to disciplinary action including reduction of a grade(s) in a specific course, assignment, paper, or project; a formal or informal reprimand at the professorial, dean, or academic vice president level; expulsion from the class in which the violation occurred; expulsion from a program; or expulsion from the school.

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