

# SYLLABUS for CHEM 1406 fall 2017

*(Introductory Inorganic and Environmental Chemistry)*

*Tentative. Subject to change. Changes will be announced in class.*

## **Brief description of the course**

CHEM 1406 is the first semester of the two-semester chemistry sequence that aims to provide a basic understanding of chemistry for non-science majors. This course will examine the relevancy and importance of chemistry to our daily lives and to relate the discipline of chemistry to other areas of study such as agriculture or nursing. Topics found in the media will be related to subject matter studied in the class. This course is for non-science majors.

### *Semester Goals:*

- Develop interest in science, and in learning science.
- While learning about science learn to value scientific literacy for its impact on society.
- Describe and explain the relationship between structure and reactivity of molecules.
- Develop critical thinking and problem-solving skills as applied to chemistry and science in general.
- Be able to interpret the chemical significance of new information and ideas acquired in the future.
- Develop and use teamwork abilities (among them communication).

**Lectures:** Monday-Wednesday-Friday 4:00 PM to 4:50 PM, CFS 103

**Instructor:** Dr. Timea Gerczei Fernandez

*Office Hours for Dr. Gerczei Fernandez*

Location: CFS 310

Times: after class or please make an appointment via e-mail; [timea@shsu.edu](mailto:timea@shsu.edu).

## **Required texts and equipment:**

- 1) General, Organic, and Biological Chemistry: Structures of Life, Karen Timberlake, 5th edition.
- 2) Calculator: recommended type is TI-30X.
- 3) Recommended (if available): portable computer device such as smart phone, iPad or small laptop for viewing PDF and PowerPoint files.
- 4) Scantrons (Form 882-E) for the exams.

## **General information:**

1. *Attendance:*
  - a. Your attendance at all scheduled class meetings and laboratory sessions is required. Each class and laboratory session will have activities that contribute toward your grade.
  - b. If you have to miss class due to a valid reason (severe weather, illness, death in the family) please make sure you contact me via e-mail. If you contact me in this manner I will not count your missed in-class activities against you.
2. *Homework:* Online homework problems will be assigned to help you master the concepts learned in class. These problems should take you 30-60 min to complete. Generally, you will have a week to complete these problems.
3. *Exams:* Exam will last 40-50 min and consist of multiple-choice questions.
  - a. Chapter objectives
  - b. In-class problems
  - c. Homework problems

**Laboratory: The laboratory portion of this course counts for 25% of the overall grade. In order to make a D or higher in this course, you must earn at least a D in both the lecture portion of the course AND in the laboratory portion of the course.**

### GRADING POLICY

Percentages are distributed as shown below. Letter grades are calculated from percentages according to the cutoff values shown below. **There is no extra credit in this course.**

Letter Grade	Final Average
A	90 – 100%
B	80 – 89%
C	70 – 79%
D	60 – 69%
F	< 60%

A weighted percentage will be used to determine the overall course grade.

Homework, in class activity	100 pts
Exam 1	100 pts
Exam 2	100 pts
Exam 3	100 pts
<b>Final exam</b>	<b>100 pts and replaces your worst exam grade</b>

**Student Advising and Mentoring Center (SAM CENTER)**

The SAM Center offers academic counseling and enrichment services to all undergraduate and graduate students. The Center offers advising aid, help with time management and/or study skills, career testing, tutoring and workshops on an array of academic and technological resources. The SAM Center can be contacted by e-mail at [SAMCENTER@SHSU.EDU](mailto:SAMCENTER@SHSU.EDU) or by telephone, (936) 294-4444.

### TENTATIVE SCHEDULE

DATE	SUBJECT	TEXT CHAPTERS
8/23/17 - 9/22/17	<b>Metric Conversions</b> <b>Matter and Energy</b> <b>Exam 1: 9/27/17</b>	2-3
9/25/17 - 10/20/17	<b>Atoms</b> <b>Nuclear Chemistry</b> <b>Ionic and Molecular Compounds</b> <b>Exam 2: 10/25/2017</b>	4-6
10/23/17 - 11/10/17	<b>Chemical Reactions</b> <b>Gases</b> <b>Solutions</b> <b>Exam 3: 11/15/2017</b>	7-9
11/13/17 - 11/28/17	<b>Reaction Rates and Chemical Equilibrium</b> <b>Acids and Bases</b>	10-11
12/01/2017	<b>Review for the Final</b>	

### UNIVERSITY POLICIES

Please follow the links below to review University Policies that apply to this course:

<http://www.shsu.edu/syllabus/>

<http://www.shsu.edu/dept/dean-of-students/policies/>

### **Academic Dishonesty**

All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials. For a complete listing of the university policy, see: Dean of Student's Office <http://www.shsu.edu/dept/dean-of-students/index.html>.

### **Students with Disabilities**

It is the policy of Sam Houston State University that individuals otherwise qualified shall not be excluded, solely by reason of their disability, from participation in any academic program of the university. Further, they shall not be denied the benefits of these programs nor shall they be subjected to discrimination. Students with disabilities that might affect their academic performance should register with the Office of Services for Students with Disabilities located in the Lee Drain Annex (telephone 936-294-3512, TDD 936-294-3786, and email [disability@shsu.edu](mailto:disability@shsu.edu)). They should then make arrangements with their individual instructors so that appropriate strategies can be considered and helpful procedures can be developed to ensure that participation and achievement opportunities are not impaired.

SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Services for Students with Disabilities and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. NOTE: No accommodation can be made until you register with the Services for Students with Disabilities. For a complete listing of the university policy, see: <http://www.shsu.edu/dotAsset/7ff819c3-39f3-491d-b688-db5a330ced92.pdf>

### **Student Absences on Religious Holy Days Policy**

Section 51.911(b) of the Texas Education Code requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. Section 51.911 (a) (2) defines a religious holy day as: "a holy day observed by a religion whose places of worship are exempt from property taxation under Section 11.20...." A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.

University policy 861001 provides the procedures to be followed by the student and instructor. A student desiring to absent himself/herself from a scheduled class in order to observe (a) religious holy day(s) shall present to each instructor involved a written

statement concerning the religious holy day(s). The instructor will complete a form notifying the student of a reasonable timeframe in which the missed assignments and/or examinations are to be completed. For a complete listing of the university policy, see: <http://www.shsu.edu/dept/academic-affairs/documents/aps/students/861001.pdf>

**Visitors in the Classroom**

Only registered students may attend class. Exceptions can be made on a case-by-case basis by the professor. In all cases, visitors must not present a disruption to the class by their attendance. Students wishing to audit a class must apply to do so through the Registrar's Office.