

SYLLABUS for CHEM 1407 Spring 2018

(Introductory Inorganic and Environmental Chemistry)

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

Brief description of the course

CHEM 1407 is the second semester of the two-semester chemistry sequence that aims to provide a basic understanding of chemistry for non-science majors. This course gives a survey of organic chemistry so that we can address the basic structure and function of biomolecules as it relates to health, agriculture and everyday life. Topics found in the media will be related to subject matter studied in the class.

CHEM 1406 or equivalent is a mandatory pre-requisite for this course.

Semester Goals:

- Recognize different kinds of organic compounds and how they are named.
- Be familiar with basic properties of organic compounds like solubility and reactivity.
- Understand what proteins and enzymes are, and how they work in the body.
- Understand what lipids are, and the role they play in the cell and our diet.
- Understand what nucleic acids are, and how they store genetic information.
- Gain familiarity with some basic features of human metabolism.

Lectures: Tuesdays and Thursdays

Early Bird Section 8:00-9:20AM

Afternoon Section 2:00-3:20PM

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.

Required texts and equipment:

- 1) General, Organic, and Biological Chemistry: Structures of Life, Karen Timberlake, 5th edition. Older editions are good too, but the 5th edition will be our reference book. An eText is available for about 50% of the cost of the printed edition on Coursesmart.com.
- 2) **iClicker Remote or iClicker App** (“Reef Polling”) for smart phones. The cost of the app for one semester is \$15.
- 3) Recommended: Bring a printout of the relevant lecture Powerpoint File for straightforward note-taking or follow the lecture Powerpoint file on a portable computer device such iPad or small laptop.

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. Moreover, I'm required per University Policy to record attendance on each class. This record will be forwarded to the University and is used for Financial Aid and other purposes.
 - 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:* Homework problems will be assigned to help you master the concepts learned in class using Blackboard or on paper. These problems should take you 30 min to complete. Generally, you will have a week to complete these problems. **Homework assignments will contribute 7.5% toward your grade.**
3. *Lecture activities (iClicker):* You are required to bring your functioning iClicker or Reef app to each lecture to participate in lecture activities. iClicker questions will help you prepare for the exams and contribute to your grade. **iClicker scores will contribute 7.5% toward your grade.**
4. *Exams:* Exam will last 40-50min and consist of multiple-choice questions, short-answer questions and calculations.
 - a. Chapter objectives
 - b. In-class problems (worked problems, iClicker questions)
 - c. Homework problems
 - d. Problems assigned during review sessions

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 and iClicker scores together are worth as much as an exam.

Homework 7.5%

iClicker Scores 7.5%

Your worst exam score is dropped (NOT including the Final).

Exams 1, 2, 3 and 4 40%

Final Exam (comprehensive) 20%

Laboratory 25%

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 or by telephone, (936) 294-4444.

TENTATIVE SCHEDULE

DATE	SUBJECT	TEXT CHAPTERS
1/18/18 - 2/22/18	Introduction to Organic Chemistry Alkanes Unsaturated Hydrocarbons Alcohols, Phenols, and Thiols Exam 1: 2/22/18 Review: 2/20/18	12, 13
2/26/18 - 3/22/18	Aldehydes, Ketones, and Chirality Carbohydrates Exam 2: 3/22/18 Review: 3/20/18	14, 15
3/27/18 - 4/12/18	Carboxylic Acids and Esters Lipids Exam 3: 4/12/18 Review: 4/10/18	16, 17

4/16/18 - 5/3/18	Amines and Amides Amino Acids and Proteins Enzymes (Highlights from metabolism) Exam 4: 5/3/18 Review: 5/1/18	18, 19, 20 (21-24)
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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). 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.