

## CHEMISTRY 1406 LAB SYLLABUS, SPRING 2018

### Instructor Information

Hemantha K. Siyambalagoda

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*Office Hours:* Monday through Friday: 1:00-4:00 p.m.

(Please note that I may not sometimes be available in the given time periods, so that I would like to receive an e-mail ahead of time, and also I would prefer to answer to your questions by e-mail)

### Course Description and Objectives

This is the laboratory portion of the chemistry 1406. The lab course is designed to offer full of laboratory-based activities with the help of some chemistry experiments to understand and familiarize the basic and fundamental chemistry concepts better. This lab portion will count for 25% of the overall grade of CHEM 1406 course. Since the lab and lecture are no longer be separated courses, if you FAIL either the lab or lecture, you WILL REQUIRE TO RETAKE the both lab and lecture (combined) courses.

### Lab Course Manual

*You must have your own personal copy of this lab manual: Chemistry 1406—Inorganic and Environmental Chemistry Laboratory, that you should not share with others and I advise you to buy this book in time at the beginning of the semester.*

### Lab Locations

This laboratory portion of CHEM 1406 meets (the first floor of CFS building) one day a week for an hour and 50 minutes' session.

### Lab Course Requirements

To get credit, *you must attend to the section for which you registered* and you would see your location, section and lab meeting time in your class schedule. *You need the lab book before your labs begin*, as you need to be aware of lab safety rules, study for EXP 1 and QUIZ 1 for the first lab, and turn in your completed Pre-lab questions (section 1 and 2). Also, be aware that the bookstore sometimes runs out of the lab manuals. *In the laboratory, you must wear **safety glasses** or **goggles**. You must have a **proper dress-code** as described in following paragraph. You must obey all the safety rules, must follow your TA's instructions and must behave in a professional manner. Otherwise, you will be expelled from the lab and will receive a ZERO GRADE for that day*

lab. Announcements will be made through e-mail and through postings made on blackboard. Your TA does not set grading and attendance policies, does not receive or accept any absence documentation, does not make up or grade exams, and does not assign your final lab course grade. All of these matters should be discussed only with me, either by email or in person. The approved calculator for the final examination is TI 30, and you will need a SCANTRON FORM 882-E (50 multiple choices on each side) for the final exam.

## Lab Safety Requirements

Students are required to read, acknowledge, and sign their agreement to the safety rules for laboratory (printed in the lab manual). *Approved **safety goggles or glasses** (prescription safety glasses do NOT meet this standard) **must be worn for all experiments during the entire time you are in the laboratory**, except for 100% dry labs. This is an absolute REQUIREMENT.* You can buy goggles/glasses from the Chemistry Club (CFS lobby under the stairs during 1st week of lab) or at home improvement stores in the safety equipment section. While in the lab, you must also wear **pants (or long skirt)** that cover the whole leg and **shoes** that enclose the whole foot (**NOT sandals, backless or strappy shoes, shorts, or capris**). Long hair or loose flowing garments must be pinned back. There is to be **no food** or **drink** of any kind, and **no smoking**. Failure to follow ALL of the safety rules will result in expulsion from the laboratory and a zero for that day's grade. Even if you feel that your TA might not enforce the rules and make you leave, you can still be required to leave. Your TA does have my permission to do so.

## Conduct

*Students are expected to follow the TA's instructions, wear appropriate attire and safety equipment, treat others with respect, maintain honesty and integrity, and behave in a professional manner that is conducive to learning. There is to be no food or drink, no smoking, no use of cell phones, no loud talking, and no playing with chemicals or equipment in the laboratory.* Poor management of laboratory materials, abuse of equipment, sloppiness in the work area, improper *waste disposal*, and any other action the instructor feels is detrimental to the development of good laboratory skills may *result in a lowered lab grade*. If you check in to a lab drawer, it is mandatory that you check out (even if you drop the course). Failure to check out of your drawer may result in a fine in addition to any breakage that has accrued.

## Pregnancy

Most of the chemicals used in your class would be safe for you, but the few may create difficulties at the pregnancy, even if the risk is low. Therefore, we ask that pregnant students complete an altered lab experience. Make an appointment to talk with me about what you should and should not do in the lab. You will still be responsible for all the material in the regular lab manual, and will need to take the same final exam. If at any time during the semester you learn that you are pregnant, you should immediately inform your TA and me.

## Attendance and Grading

To earn credit for this course, students' attendance and participation are required for a minimum of 5 out of the 9 laboratory exercises. Because this is an activity based lab course, if you attend fewer than 5 labs, you will fail no matter how many points you earn overall. You must make at least a D in lab to pass the course. In other words, if you fail either the lab OR lecture, you will have to retake the entire combined course to get credit. *Instructions, safety issues, and quizzes are given by your TA at the beginning of a lab, so you need to arrive on time. If you miss a quiz due to tardiness, you will receive a zero for that quiz. If you cannot attend a lab for any reason, you will receive a zero for that lab. Due to time, space, and resource restraints, there are **NO MAKE-UP LABS**. Also, there are no make-up quizzes. You may **NEVER ATTEND** any other lab section to make up missed laboratories, and you are responsible for any material covered in a missed lab. Students who miss the final exam **MUST HAVE an official unavoidable documented reason**, and must send an email to make an appointment with me to discuss that situation as soon as they are aware of it.*

There are **9 labs in total** including an additional lab. All labs are worth **180 total points** (20 points per lab). **A total of 160 points is only counted** (needed) from lab participation, and is assigned by your TA. *IF you can participate for all 9 labs, you can earn extra 20 points as bonus to your lab attendance total (160+20=180).* **Each lab is worth 20 points:** four points will come from your submitted pre-lab exercise, six points will come from your quiz grade, and 10 points will be earned by your participation in the lab activities. Points for the pre-lab and quiz are earned only after (and with) active and full participation in the lab experiment. *Active participation includes, but is not limited to, attendance, exhibiting good conduct, adequate preparation, performing the lab activity, actively engaging in discussions relevant to the lab, completing the experiment write-up, and following all instructions and safety rules, etc. Quizzes may cover material from both the previous lab as well as the lab assigned for that day.* There are times when students must legitimately be absent from lab. As an additional lab is included in the schedule, you can miss one lab or up to 20 points before you begin to have a penalty to your grade. If you have attended for all 9 labs, the extra points count as bonus. Students involved in school competitions or excursions are advised to check their schedules for conflicts with lab, and consider taking the course at a different time or semester if there will be many unavoidable absences.

You should keep track of your daily grades posted on Blackboard The final exam will be comprehensive (will cover all 9 labs) and will be worth 100 points. Practice study questions are found in your manual at the end of each lab experiment to help you prepare for the final exam and practice with answering to the review test questions that will be posted on the blackboard at the end of the last lab week.. There are no answer keys for these. Answers may be found in your lab manual and by participating in the lab activity. Grades for pre-labs, quizzes, lab activity, and final exam grades will be posted on Blackboard. *Your TA does NOT assign your final course grade, so you do not ask him and discuss with your TA any concerns or problems you have about those. All misunderstandings and deficiencies must be cleared up with your TA before the week of the final exam. It is your responsibility to check your posted grades and reach an understanding with your TA about them. Unless you have discussed unresolved difficulties with me, I will assume the grades posted at the time of the final exam are correct and complete.*

If you have questions about how your grade is calculated, you may email me or come by my office. Please remember that there are almost 450 of you and only one of me, so it may sometimes take me awhile to respond to you.

<b>Lab Activity and Quizzes 160 points</b>	<b>Points</b>	<b>Lab Course Grade</b>
<b>Final Exam ----- 100 points</b>	<b>234 - 260-----</b>	<b>A (90%)</b>
<b>Total of grading scale -- 260 points</b>	<b>208 - 233-----</b>	<b>B (80%)</b>
<b>Bonus-----20 points</b>	<b>182 - 207-----</b>	<b>C (70%)</b>
	<b>156 - 181-----</b>	<b>D (60%)</b>
<b>Total (max) ----- 280 points</b>	<b>&lt;156 -----</b>	<b>F (&lt;60%)</b>

Please note that while you will be assigned a letter grade for lab on Blackboard, your percentage grade is reported to your lecture instructor for calculating your overall course grade.

**Tentative Lab Schedule: (may be changed and content is subject to revision)**

<b>DATE RANGE</b>	<b>ACTIVITY</b>
<b>2/5 to 2/9</b>	<b>EXP 1</b>
<b>2/12 to 2/16</b>	<b>CHECK-IN / EXP 2</b>
<b>2/19 to 2/23</b>	<b>EXP 3</b>
<b>2/26 to 3/2</b>	<b>EXP 4</b>
<b>3/5 to 3/9</b>	<b>EXP 5</b>
<b>3/12 to 3/16</b>	<b>SPRING RECESS</b>
<b>3/19 to 3/23</b>	<b>EXP 6</b>
<b>3/26 to 3/30</b>	<b>No LABS</b>
<b>4/2 to 4/6</b>	<b>EXP 7</b>
<b>4/9 to 4/13</b>	<b>EXP 9</b>
<b>4/16 to 4/20</b>	<b>EXP 8 / CHECK-OUT</b>
<b>4/23 to 4/27</b>	<b>COMPREHENSIVE FINAL EXAM</b>

All University policies and procedures will be adhered to so more detailed descriptions of these may be found at <http://www.shsu.edu/syllabus/>