### CHEM 1406 SYLLABUS HIGHLIGHTS

# Full syllabus available on Blackboard SUBJECT TO CHANGE! Changes will be announced as we go along.

- Can NOT be substituted for CHEM 1411. Recommended course for students preparing for education, nursing and other allied health fields (NOT pre-professional fields).
- **Instructor:** Dr. Laci Alexander, Office S116, 716-2322, email: lalexander@southplainscollege.edu

#### · Materials:

- o To purchase:
  - Textbook –Recommended, Chemistry: An Introduction to General, Organic, and Biological Chemistry by Timberlake 13<sup>th</sup> Edition
  - Lab Manual Required, CHEM 1406, obtained from bookstore
  - Safety Goggles Required, obtained from bookstore
  - Calculator Required, must be scientific, CELL PHONES NOT ALLOWED
  - Scantrons Required, will need 4 or 5 total
  - MasterChemistry Access Code
- To print from Blackboard:
  - Power Point Notes Optional but highly recommended
  - Practice Problems Optional but highly recommended
  - Periodic Table Required

### Five Major Exams

- SCANTRON is required, available at the bookstore, Apperson Form 29240
- NO MAKEUPS
- All Multiple Choice questions
- o Each Exam is worth 100 points with the possibility of bonus points
- Calculators will have their memory cleared and proof of memory clearing must be shown to the instructor before the Exam can be started
- Cheating
  - If a student is caught cheating on any of the Major Exams they will receive a 0 for that Exam <u>and</u> be required to take the Final Exam regardless of absences or average. In the case of cheating, the Final Exam will <u>NOT</u> replace the lowest Exam score (the 0 stands and cannot be replaced)

#### Comprehensive Final Exam

- Possible Exemption
  - If you have 0 or 1 absence **AND** an 'A' or 'B' average, then you may optout of the Final Exam. If you have 2 or more absences or less than a 'B' average, then the Final Exam is required of you.
- Replacement Option
  - If the final exam is taken it can replace the lowest exam score (In this
    option the Final Exam ends up counting twice)
- o 50 Multiple Choice questions, 100points with the possibility of bonus points
- o Scantron is required, available at the bookstore

#### Notecards

 A 3X5 notecard will be permitted for Exams 1-5 and a 4X6 notecard may be used for the final exam. Both sides of the notecard may be used and maybe handwritten or typed. Notecards should contain formulas, definitions, and constants, or any other information allowed by the instructor announced in class. Notecards CAN NOT contain any worked examples from class notes, in-class worksheets, practice problems, or any other examples found online. A student should also not write any questions on the notecard.

For each unauthorized example found on the notecard points will be deducted from the exam. The length of the exam and the amount of unpermitted information will determine the number of points deducted. Any bonus points for that exam will also be deducted from the exam total. Any unauthorized material on the notecard is classified as cheating therefore the cheating policies in the syllabus will also be followed.

### Pre-Lab Exercises, Lab Worksheets, Experiments

- A student will NOT be able to enter the lab without the proper attire (closed toed shoes, long pants, shirts with sleeves, long hair pulled back, and safety goggles). A student that is not dressed appropriately for lab will not be able to perform the experiment and therefore will receive a 0 for that Lab Worksheet.
- Pre-Lab Exercises
  - Must be <u>TYPED on the form provided</u> on Blackboard and turned in BEFORE the Experiment can be done
  - Each Pre-Lab Exercise is worth 50 points.
  - Pre-Lab Exercises will be turned in on blackboard

### <u>Lab</u> Worksheet

- Each Lab Worksheet must be filled out during the Experiment and turned in before the student leaves the lab
- Each lab group will turn in 1 Lab Worksheet with all group members name on it, all members will receive the same grade
- Each Lab Worksheet is worth 50 points.

### Experiments

- The Pre-Lab Exercise plus the Lab Worksheet is what makes up the student's grade for that Experiment.
- A missed Lab results in a **0** for the Lab Worksheet.
- Make-Ups for missed Lab Experiments are NOT allowed.

#### Chapter Homework

 Each chapter will have a homework section on Mastering Chemistry. These will be turned in one to two class days after the chapter material has been finished.
 The date will be announced on the syllabus and on Mastering Chemistry.

#### Dropped Grades

- Lowest two Grades Dropped
  - At the end of the semester the Instructor will automatically drop the lowest two grades from the total of the lab and homework. The lowest TWO grades will be dropped.

#### Cell Phone and Laptop Computer Policy

- Cell Phones and Laptops may be taken up and kept during lecture and lab if they are a distraction to the student, the instructor or the class
- The only exception will be due to Special Services recommendations and those will be handled on an individual student to student basis

#### Attendance

- 4 absences max and I drop you with an 'F'
- Last Day to Drop is \_\_\_\_\_\_

- Grading:
  - Exams are 70%
  - Lab Reports count 30%

Natatorium

- Diversity Statement: In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.
- Disability Statement: Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland (Student Health & Wellness Office) 806-716-2577, Reese Center (Building 8) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.
- Note to students with disabilities: If you have a disability-related need for reasonable
  academic adjustments in this course, you must provide the instructor with a letter of
  accommodation from the Disability Services Office. If you need immediate
  accommodations or physical access, please arrange to meet with the Disability Services
  Office before the next class meeting.
- Campus Carry: South Plains College permits the lawful carry of concealed handguns in accordance with Texas state law, and Texas Senate Bill 11. Individuals possessing a valid License to Carry permit, or the formerly issued Concealed Handgun License, may carry a concealed handgun at all campus locations except for the following.
  - For a complete list of campus carry exclusions zones by event, please visithttp://www.southplainscollege.edu/campuscarry.php
- Title X Pregnancy Accommodations: If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education. To activate accommodations you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Director of Health and Wellness. Once approved, notification will be sent to the student and instructors. It is the student's responsibility to work with the instructor to arrange accommodations. Contact Chris Straface, Director of Health and Wellness at 806-716-2362 or email cstraface@southplainscollege.edu for assistance.

# CHEMISTRY 1406 (4:3:3)

# INTRODUCTORY CHEMISTRY I

INSTRUCTIONAL AREA: CHEMISTRY

DEPARTMENT: SCIENCE

**DIVISION: ARTS AND SCIENCES** 

SOUTH PLAINS COLLEGE

**SPRING 2019** 

INSTRUCTOR: L. ALEXANDER

### Course Description

CHEM 1406: (4:3:3) Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for allied health students and for students who are not science majors. Basic laboratory experiments supporting theoretical principles presented in lecture; introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports. This course may not be substituted for CHEM 1411. Semester Hours: 4 Lecture Hours: 3 Lab Hours: 3 Note: This course may **not** be substituted for CHEM 1411.

### Instructor:

Dr. Laci Alexander

Office: S116, Science building

Phone: 716-2322

Email: lalexander@southplainscollege.edu

Office Hours: MW: 8:00 – 9:30 AM

TR: 1:00 – 2:00 PM F: 9:00 AM – 12:00 PM

Office hours can also be made by appointment.

### Tutor:

Room S121

#### Textbook:

### **REQUIRED**

Available at the Bookstore

Chemistry: An Introduction to General, Organic, & Biological Chemistry by Timberlake, 13<sup>th</sup> Edition

#### Lab Manual:

#### REQUIRED

CHEM 1406 Lab Manual

Lab manual is available for purchase only at the Levelland bookstore.

### Safety Goggles:

### **REQUIRED**

You must have your own safety glasses for wear in the laboratory, NO EXCEPTIONS. They may be purchased at the SPC bookstore or borrowed from the instructor.

### Calculator:

### **REQUIRED**

You will need a scientific calculator for this course. An inexpensive model will be just fine. You are responsible for learning how to use your calculator. Cell phones **CAN NOT** be used for calculators. Calculators WILL be cleared before an Exam can be taken! It is the student's responsibility to know how to clear the calculator's memory.

### Scantrons:

### 5 or 6 REQUIRED

Available at the Bookstore

### **Power Point Notes:**

### **OPTIONAL, BUT HIGHLY RECOMMENDED**

To be printed off Blackboard

### Chapter Homework:

Chapter homework will be on MasteringChemistry. Each chapter will have an assignment due one to two days after the chapter is finished in lecture. The due dates will be announced in class, on the syllabus, and on MasteringChemstry.

### Practice Problems:

### OPTIONAL, BUT RECOMMENDED

These are problems that I have designed for further practice and study before every exam. They are available to print off Blackboard.

### Pre-Lab Exercises:

### REQUIRED

To be obtained from Blackboard

These Pre-Lab Exercises must be TYPED on the form provided on Blackboard and turned in on blackboard BEFORE the Experiment can be performed. No makeups will be allowed for the Pre-Lab Exercise. Each Pre-Lab Exercise is worth 50 points.

### Lab Worksheets:

### **REQUIRED**

Provided by Instructor at Lab

These worksheets will be completed in groups during the lab time and turned in before the student leaves. Every member of the group will put their name on the worksheet and all members will receive the same grade.

### Labs/Experiments:

You will perform a series of experiments and exercises in the lab, which are designed to reinforce the classroom material and give you hands-on experience of a chemical nature. A missed lab CANNOT be made up. Pre-Lab Exercises must be completed and turned in before a student starts an Experiment. If a student is absent the day of the Experiment that student will receive a 0 for the Pre-Lab Exercise and the Lab Worksheet. The student is still responsible for collecting any material that was given during the Experiment in order to be prepared for questions on the Exam that come from the Experiments. At the end of the semester the Instructor will automatically drop the lowest lab grade for the student. A student will NOT be able to enter the lab without the proper attire (closed toed shoes, long pants, shirts with sleeves, long hair pulled back, and safety goggles). A student that is not dressed appropriately for lab will not be able to perform the experiment and therefore will receive a 0 for that Lab Worksheet.

### Periodic Table:

#### REQUIRED

One is available for print from Blackboard

### Cell Phones/Laptop Computers:

Cell phones and Laptop Computers **CAN NOT** be used in Lecture or Lab. Cell phones **CAN NOT** be used for calculators. If you are caught using your cell phone during class or if the phone continuously rings during class the cell phone will be confiscated. Cell phones and Laptops **MUST NOT** be out on the desk or in your hands during class or lab, otherwise they may be taken up. If a cell phone or Laptop is confiscated it will be kept during Lecture and Lab. The only exception to this will be in the case of a Special Services recommendation which will be handled on an individual student basis.

### Major Exams:

There will be five major exams. Each exam is worth 100 points, with possibility of bonus points. Questions will be based on the material covered in class and lab. A missed exam will receive a score of zero. There will be **NO** make-ups. Each Major Exam will contain a portion of new material and a portion of comprehensive material. Reminder: Practice Problems can be turned in at the time of the major exam for 5 bonus points. Scantrons will be needed for the Exams. Calculators will have to have their memory cleared and proof shown to the instructor before the student can start the Exam. The student is responsible for knowing how to clear their calculator's memory.

#### Final Exam:

The final exam is comprehensive and is worth 100 points. The final must be taken on the scheduled day. **NO** make up is available for the final since it is scheduled at the very end of the term. Extenuating circumstances will be handled on a case-by-case basis.

<u>Possible Exemption</u> – If you have 0 or 1 absence **AND** an 'A' or 'B' average, then you may opt-out of the Final Exam. If you have 2 or more absences and less than an 'A' average, then the Final Exam is required of you.

Replacement Option – The Final Exam can be taken to replace the lowest exam score. In this option, the final ends up

counting twice, by replacing one exam and counting as the final exam itself.

<u>Cheating</u> – If a student is caught cheating on any of the Major Exams they will receive a 0 for that Exam <u>AND</u> be required to take the Final Exam regardless of absences or average. In the case of cheating, the Final Exam will NOT replace the lowest Exam score (the 0 stands and cannot be replaced).

#### Lectures:

Classroom and laboratory lectures are intended to help you to better understand the subject matter. Lecture topics (classroom and lab) will serve as the basis for exam questions.

### Attendance:

Class attendance is very important. Make every effort to be present. If you must miss a class or must leave early, please let me know about it **BEFORE** class begins or an unexcused absence will be given. You must attend the **FULL** time of class in order to be considered present. You will be counted absent if you leave during the scheduled class time.

If you are unable to complete this course, you must initiate a withdrawal (W) through the Registrar's Office before **April 25**. If you simply stop attending class without withdrawing, I will administratively drop you for excessive absences, and you will receive a grade of "**F**" at the end of the term, in accordance with policies set forth in the 2017-2018 SPC General Catalog.

You are a candidate for an excess absence drop (**F**) if you miss 4 class days **total**, without clearing your absences with me. Two excused absences equal one unexcused absence and will count towards the 4 excess absences.

**Tardy**: If you show up AFTER the attendance sheet has been passed around you WILL NOT be allowed to sign the attendance sheet, therefore will be counted absent. The attendance sheet will be passed around sometime after 30 mins into the class.

### **Grading Policy:**

| Exams       | 70% |
|-------------|-----|
| Lab Reports | 30% |

Grades will be assigned on the following basis:

| 90 – 100 | Α |
|----------|---|
| 80 – 89  | В |
| 70 - 79  | С |
| 60 – 69  | D |
| < 60     | F |

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Natatorium

For a complete list of campus carry exclusions zones by event, please visithttp://www.southplainscollege.edu/campuscarry.php

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### From the Introductory Chemistry I Common Course Syllabus

## **Core Objectives Addressed:**

- **Communication** to include effective written, oral and visual communication
- Critical Thinking Skills to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- Empirical and Quantitative Skills to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusion.
- Teamwork Skills to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

**Course Purpose**: To provide basic chemical knowledge for persons living in a world of technology that is always changing. To provide an understanding of the basic chemical functioning of the human body. To provide the student with a laboratory experience which will enhance their appreciation of the advances of Science and of the role of the Clinical laboratory in the hospital.

### **Course Requirements:**

- 1. The student should do each of the following:
  - a. Read the assigned chapters in the textbook and laboratory manual.
  - b. Attend all lectures and laboratory classes.
  - c. Take notes in class.
  - d. Participate in class discussions.
  - e. Complete assigned outside reading material and homework.
  - f. View audiovisual materials on selected topics.
  - g. Use the computer software in the lab and/ or classroom as it is assigned.
  - h. Complete the exams on the assigned dates; the exams may include essay questions.
- 2. For laboratory the student should:
  - a. Complete the prelab assignment before going into lab.
  - b. Read and Comprehend each experiment assigned in the laboratory manual.
  - c. Successfully complete each experiment.
  - d. Learn to use and/or analyze data from instruments or equipment needed to complete the experiments. (e.g. balance, pH meters, volumetric glassware)
  - e. Complete the laboratory reports, including post lab calculations and discussion questions.

**Student Learning Outcomes/Competencies:** Upon completion of the course, the student will show competence in the course objectives listed below:

### From Lecture:

- 1. Convert units of measure and demonstrate dimensional analysis skills
- 2. Define the fundamental properties of matter and classify matter, compounds, and chemical reactions.
- 3. Determine the basic nuclear and electronic structure of atoms.
- 4. Distinguish between ionic and covalent compounds and name the different compounds.
- 5. Identify trends in chemical and physical properties of the elements using the periodic table.
- 6. Determine the role of energy in physical and chemical reactions.
- 7. Use the mole concept to determine the number of atoms, moles, grams, and solve elementary stoichiometry-based calculations.
- 8. Determine the concentrations of solutions using percentage and molarity designations.
- Use various characteristics of a solution to identify it as an acid or base.
- 10. Identify and name various organic compounds.

11. Identify and explain the functions of carbohydrates, lipids, and proteins.

### From Lab:

- 1. Use basic apparatus and apply experimental methodologies used in the chemistry laboratory.
- 2. Demonstrate safe and proper handling of laboratory equipment and chemicals.
- 3. Conduct basic laboratory experiments with proper laboratory techniques.
- 4. Make careful and accurate experimental observations.
- 5. Relate physical observations and measurements to theoretical principles.
- 6. Interpret laboratory results and experimental data, and reach logical conclusions.
- 7. Record experimental work completely and accurately in laboratory notebooks and communicate experimental results clearly in written reports.
- 8. Design fundamental experiments involving principles of chemistry.
- 9. Identify appropriate sources of information for conducting laboratory experiments involving principles of chemistry.

### **EXAM OVERVIEW**

Exam 1

Lab Safety

Chapter 1: Matter, Measurement, and Problem Solving

Learning Objectives Met: Lecture #1, #2

Chapter 2: Atoms, Molecules, Ions

Learning Objective Met: Lecture #3, #4, #5

Experiment 1: Introduction to Laboratory Equipment

Learning Objectives Met: Lecture #1, Lab ALL

Experiment 2: Measurements

Learning Objectives Met: Lecture #1, 2, Lab ALL

Experiment 3: Density

Learning Objectives Met: Lecture #1, 2, Lab ALL

Experiment 5: Atoms and Molecules

Learning Objectives Met: Lecture #4,5, Lab ALL

Exam 2

Chapter 3: Mass Relationships in Chemical Reactions

Learning Objective Met: Lecture #7

Chapter 4: Solutions

Learning Objective Met: Lecture #8

Experiment 7: Mole Ratio

Learning Objectives Met: Lecture #7, Lab ALL

Experiment 8: Hydrates

Learning Objectives Met: Lecture #2, 4, Lab ALL

Experiment 10: Properties of Solutions: Electrolytes and Non-electrolytes

Learning Objectives Met: Lecture #9 Lab ALL

Exam 3

Chapter 5: Acids and Bases

Learning Objective Met: Lecture #9

Chapter 6: Gases

Experiment 9: Boyle's Law

Learning Objective Met: Lab ALL

Experiment 11: Household Acids and Bases

Learning Objectives Met: Lecture #9, Lab ALL

Experiment 12: Titration of Household Items

Learning Objectives Met: Lecture # 9, Lab ALL

Exam 4

Chapter 7: Energy

Learning Objective Met: Lecture #6

Chapter 8: Introduction to Organic Chemistry: Hydrocarbons

Learning Objectives Met: Lecture #10

Experiment 13: Organic Models

Learning Objectives Met: Lecture #10, Lab ALL

Exam 5

Chapter 9: Carbohydrates

Learning Objectives Met: Lecture #11

Chapter 10: Lipids

Learning Objectives Met: Lecture #11

Chapter 11: Proteins

Learning Objectives Met: Lecture #11

Final Exam

Comprehensive

# **COURSE SYLLABUS**

We will follow this schedule as closely as possible; any changes will

be announced as we go along.

| Week       | Day                    | Lecture      | Lab          | Homework Due |
|------------|------------------------|--------------|--------------|--------------|
| 1          | Tuesday<br>January 15  | Introduction | Lab Safety   |              |
|            | Thursday<br>January 17 | Chapter 1    | Chapter 1    |              |
|            |                        |              |              |              |
|            | 22-Jan                 | Chapter 1    | Exp. 1       |              |
| 2          | 24-Jan                 | Chapter 1 HW | Exp. 2       |              |
|            |                        |              |              |              |
|            | 29-Jan                 | Chapter 2    | Exp. 3       | Chapter 1 HW |
| 3          | 31-Jan                 | Chapter 2    | Chapter 2 HW |              |
|            |                        |              |              |              |
| 4          | 5-Feb                  | EXAM 1       |              | Chapter 2 HW |
| 4          | 7-Feb                  | Chapter 3    | Exp. 5       |              |
|            |                        |              |              |              |
| 5          | 12-Feb                 | Chapter 3    | Chapter 3    |              |
| 5          | 14-Feb                 | Chapter 3 HW | Exp. 7       |              |
|            |                        |              |              |              |
| 6          | 19-Feb                 | Chapter 4    | Chapter 4    | Chapter 3 HW |
|            | 21-Feb                 | Chapter 4    | Chapter 4 HW |              |
|            |                        |              |              |              |
| 7          | 26-Feb                 | EXAM 2       | Exp. 8       | Chapter 4 HW |
|            | 28-Feb                 | Chapter 5    | Chapter 5    |              |
|            |                        |              |              |              |
| 8          | 5-Mar                  | Chapter 5    | Exp. 9       |              |
|            | 7-Mar                  | Chapter 5 HW | Exp. 10      |              |
|            |                        |              |              |              |
| $\bigstar$ | 12-Mar                 | SPRING BREAK |              |              |

|    | 14-Mar  |                               |              |              |
|----|---------|-------------------------------|--------------|--------------|
|    |         |                               |              |              |
| 9  | 19-Mar  | Chapter 6                     | Exp. 11      | Chapter 5 HW |
|    | 21-Mar  | Chapter 6                     | Exp. 12      |              |
|    |         |                               |              |              |
| 10 | 26-Mar  | Chapter 6                     | Chapter 6 HW |              |
|    | 28-Mar  | EXAM 3                        |              | Chapter 6 HW |
|    |         |                               |              |              |
| 11 | 2-Apr   | Chapter 7                     | Chapter 7    |              |
|    | 4-Apr   | Chapter 7                     | Chapter 7 HW |              |
|    |         |                               |              |              |
| 12 | 9-Apr   | Chapter 8                     | Chapter 8    | Chapter 7 HW |
|    | 11-Apr  | Chapter 8                     | Exp. 13      |              |
|    |         |                               |              |              |
| 13 | 16-Apr  | Chapter 8 HW                  |              |              |
|    | 18-Apr  | EXAM 4                        |              | Chapter 8 HW |
|    |         |                               |              |              |
| 14 | 23-Apr  | Chapter 9                     | Chapter 10   |              |
|    | 25-Apr  | Chapter 11                    |              |              |
|    |         |                               |              |              |
| 15 | 30-Apr  | EXAM 5                        |              |              |
|    | 2-May   | FINAL EXAM REVIEW DAY         |              |              |
|    |         |                               |              |              |
| 16 | 7-May   | Final Exam<br>8:00 - 10:00 AM |              |              |
|    | Tuesday |                               |              |              |