

**South Plains College**  
**Common Course Syllabus: CHEM 1411**  
**Revised Spring 2024**

**Department:** Science

**Discipline:** Chemistry

**Course Number:** CHEM 1411

**Course Title:** General Chemistry I

**Instructor:** Katheryn Townsend

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Office Hours: MW 12:00 – 1:00PM, 3:45 – 4:15PM

TR 10:45 – 11:45AM, 2:00 – 2:30PM

Fridays 9:00 – 11:00AM (check for availability)

ALWAYS by appointment if necessary

**Available Formats:** FLEX: Lecture is online, Lab is Face-to-Face

**Campuses:** Levelland

**Course Description:** Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry. Basic laboratory experiments supporting theoretical principles presented in CHEM 1411; introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports.

**Prerequisite:** Prerequisite: MATH 1314 College Algebra or equivalent academic preparation. High school chemistry is strongly recommended

**Credit:** 4 **Lecture:** 3 **Lab:** 3

**Course Specific Instructions:** This course is a FLEX/HYBRID course. The Lecture portion of this course is completely online but the Lab portion is face-to-face. You are required to attend lab in person at a designated time, face-to-face, to complete Experiments, Lab Assignments and Worksheets. Please also expect to additionally spend AT LEAST 8 - 10 hours per week watching videos, reading notes, working on Worksheets and/or Practice Problems, completing assignments, and exams weekly. Some students may require more hours per week to be successful in the class. You must be very self-disciplined to complete a partially online course. All assignments, worksheets, and exams etc. must be completed and submitted by their specific deadlines.

**Textbook:** NO TEXTBOOK REQUIRED

**Supplies:**

- **To purchase:**
  - **Calculator – REQUIRED**, must be scientific, **CELL PHONES NOT ALLOWED**

- 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. TI-30XA is NOT recommended.
  - **Goggles or Safety Glasses for lab**
  - **May need extra materials to prepare 2 posters**
- **Obtained from Blackboard:**
  - **Lab Manual – REQUIRED, CHEM 1406 Lab Manual**
  - **Power Point Notes, Outlines and Videos - REQUIRED**
    - On Blackboard, each Chapter will have a folder in the Chapter Notes tab. Here you will find Power Point Notes, Outlines and Videos.
  - **Chapter Worksheets – Optional, but highly recommended**
    - These are worksheets designed to help you apply the material from the chapter and can be used to study for exams.
  - **Exam Practice Problems – Optional but highly recommended**
    - These are problems that I have designed for further practice and study before every exam.
  - **Periodic Table – REQUIRED**
  - **Labs/Experiments – REQUIRED**
    - Experiments will be performed in the lab room during a designated time. Students will then complete a Lab Worksheet and turn it in to the instructor for a Lab grade.

#### **Minimum Computer Requirements:**

1. Personal computer with a 1 GHz Pentium processor and at least 512 MB of RAM memory, a minimum 5 GB of free hard drive, running Windows 7 / MacOS 10.8 or later (Windows 10 / MacOS 10.12 recommended).
2. Web Browser: Google Chrome seems to work the best with Blackboard and HOL.
3. A high speed internet connection of 5+ Mbps.
4. Microsoft Office and Microsoft PowerPoint and Word software (a recent version, preferably 2016 or higher).
5. Windows Media Player (the latest version).
6. Soundcard and functioning speakers.
7. Knowledge of how to navigate Google Chrome web pages and how to deal with pop-up blockers and other devices and warnings on Google Chrome.
8. Knowledge of how to download files from the Google Chrome and find them on your computer once they are downloaded.
9. Knowledge of basic operations of Microsoft Word and Microsoft PowerPoint.
10. Knowledge of how to view and adjust videos with Windows Media Player.

**BlackBoard:** The lecture portion of this course is completely online and is conducted through Blackboard. BlackBoard may be accessed at <https://southplainscollege.blackboard.com/webapps/login/>. For help concerning the use and features of BlackBoard you can access the help menu at the top of each BlackBoard page that you visit. For technical issues concerning BlackBoard, contact SPC BlackBoard Student Support at the Instructional Student Support at the Instructional Technology department at [blackboard@southplainscollege.edu](mailto:blackboard@southplainscollege.edu) or 806 716-2180. Only contact them if you need assistance with login or a browser related questions. DO NOT contact them if your computer crashes, your internet connection fails, you have instructional questions for your instructor, etc. Please include your full names, course registered for with instructor and section noted, and the preferred way for them to contact you.

**Labs/Experiments:** You will perform a series of experiments and exercises **in the lab**, which are designed to reinforce the lecture material and give you hands-on experience of a chemical nature. Attending and performing these experiments in the **lab face-to-face is a REQUIRED** part of this class. Missing lab can drastically reduce the opportunity for learning and may adversely affect a student's achievement. Each lab will have a data analysis and question section in the lab manual which must be completed for your lab grade. The instructor will provide a Lab Worksheet to each lab group for them to complete and turn in for their lab grade. Labs count 30% of your overall class average so they are a significant part of your grade. At the end of the semester the Instructor will automatically drop the lowest lab grade for the student. If a lab is missed the student is still responsible for collecting any material that was given during the Experiment in order to prepare for questions on the Exam that come from the 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.**

- **Lab Absence/Make-Ups:** If a lab is missed it can **only** be made up if the absence is due to the student's hospitalization or an official SPC school sponsored trip/activity **AND** proper documentation is received by the instructor. Proper documentation must be received within **2 days** of the Lab Absence and the lab make-up must be done within **ONE WEEK** of the missed lab. After the one week deadline, labs can no longer be made up and will be zeros. Documentation includes but is not limited to: hospitalization check-in and/or check-out paper with dates of stay, an email from SPC's school nurse (DeEtte Edens), or an email/note from the SPC advisor/sponsor/coach/administrator in charge of the SPC sponsored trip/activity. When documentation is received the instructor will give the student instructions on making up the lab but it still has a ONE WEEK deadline from the date of the missed lab. **\*\*It is the student's responsibility to contact the instructor regarding the absence, make sure appropriate documentation has been received by the instructor and to ask for directions regarding the makeup of the lab.\*\***

**Online Assignment:** This a **two** part assignment due close to the beginning of the semester and will count as a lab grade. The instructions are on Blackboard. Part One consists of questions in a Word document. You will need to open the document, TYPE your answers, save as a **PDF** and then submit the **PDF** on Blackboard in the ONLINE ASSIGNMENT folder using the Blackboard Assignment link. **Any documents that are to be submitted on Blackboard for a grade MUST BE IN PDF format or they will not be accepted and will receive a zero!** There are plenty of apps on phones and lots of different software programs that can help you turn your pictures or scanned documents into PDFs! Please look into these ahead of time so you do not miss any deadlines! Part Two is to send me an email (ktownsend@southplainscollege.edu) from your South Plains College email (NOT BLACKBOARD EMAIL, YAHOO, GMAIL, ETC!) and just tell me a little about yourself, whatever you would like me to know. Each part is worth 50 points so make sure to do BOTH parts in order to get a 100. This assignment is to help me get to know you a little and make sure you can access documents on Blackboard and submit documents on Blackboard. **THERE ARE NO LATE ASSIGNMENTS ACCEPTED and NO MAKEUPS ALLOWED!!** **\*\*The only exception will be if the student has been hospitalized. In that situation documentation with check-in/check-out dates from the hospital will be required. If you are hospitalized please contact the instructor: Katheryn Townsend at ktownsend@southplainscollege.edu, the nurse: DeEtte Edens, BSN, RN at 806-716-2376 or dedens@southplainscollege.edu, and Lynne Cleavinger, Dean of Students at 806-716-2380, Fax: 806-894-1038.\*\***

**Poster Projects:** There will be TWO poster projects due this semester with the exact date being determined by the instructor. The materials needed for posters must be provided by the student and not the instructor of the course. The topic of the posters may be any topic that was covered in lecture or lab during the semester. These posters will each count as a lab grade. There is a POSTERS folder on Blackboard where you will find information about these Posters and some examples. **Posters will be physically turned into the instructor by their deadlines, emailed posters will not be accepted.**

- **Poster #1:** Due around mid-semester. The poster may be done by hand or may be digitally done or a combination. This "poster" should be no larger than a 12x12inch scrapbook page. They may be just a

regular sheet of paper (8.5 x 11inch) if you would like. Just be creative and informative. **The poster will be physically turned into the instructor in class by the deadline, emailed posters will not be accepted.**

- **Poster #2:** Due at the end of the semester. The poster may be done by hand or may be digitally done or a combination. This poster should be at least the standard poster size, 22 inches x 28 inches, it may be larger but not smaller. A smaller size may result in loss of points. Just be creative and informative. **The poster will be physically turned into the instructor in class by the deadline, emailed posters will not be accepted.** This poster CANNOT cover the same topic as Poster #1.
- More details may be provided by the instructor on Blackboard in the POSTERS folder.
- **NO Late Posters will be accepted!! As always, there is NO LATE WORK ACCEPTED and NO MAKEUPS ALLOWED! \*\*The only exception will be if the student has been hospitalized. In that situation documentation with check-in/check-out dates from the hospital will be required. If you are hospitalized please contact the instructor: Katheryn Townsend at ktownsend@southplainscollege.edu, the nurse: DeEtte Edens, BSN, RN at 806-716-2376 or dedens@southplainscollege.edu, and Lynne Cleavinger, Dean of Students at 806-716-2380, Fax: 806-894-1038.\*\***

#### Exams:

- **Major Exams:** There will be five major exams and they will be taken online on Blackboard. Each exam is worth 100 points. Questions will be based on the material covered in lecture and lab. Each Exam will contain a portion of new material and a portion of comprehensive material. **A missed exam will receive a score of zero. There will be NO make-ups. As always, there is NO LATE WORK ACCEPTED and NO MAKEUPS ALLOWED!! \*\*The only exception will be if the student has been hospitalized. In that situation documentation with check-in/check-out dates from the hospital will be required. If you are hospitalized please contact the instructor: Katheryn Townsend at ktownsend@southplainscollege.edu, the nurse: DeEtte Edens, BSN, RN at 806-716-2376 or dedens@southplainscollege.edu, and Lynne Cleavinger, Dean of Students at 806-716-2380, Fax: 806-894-1038.\*\***
  - Exams are online on Blackboard.
  - Exams are 33 – 50 questions each.
  - The Exams will have a specific window of availability BUT ONCE YOU BEGIN THE EXAM:
    - You will have 1 (ONE) attempt to take the Exam, meaning, you cannot leave the Exam or Blackboard and then come back to it, once you open the Exam you must finish it!
    - You will have 2 hours to take the Exam, make sure to have your calculator and periodic table ready and you may want some scratch paper nearby as well!
    - You will be allowed to use your notes on the Exams but remember, you will be limited on time so have your notes organized and ready to go!
    - Should technical difficulties occur while you are taking the Exam, TAKE A PICTURE OF THE SCREEN THAT IT GIVES YOU AND EMAIL THE PICTURE TO ME **IMMEDIATELY!!** **This picture should include the entire computer screen with time shown.** I cannot guarantee that I can respond to you immediately but everything will be timestamped so I can go back and see what happened and possibly (**NOT GUARANTEED**) restart the Exam for you.
    - Be sure to use the Notes Outlines, Chapter Worksheets and Exam Practice Problems to help study for the Exams.
- **Final Exam: THE FINAL EXAM IS REQUIRED FOR ALL STUDENTS.** The final exam is fully comprehensive, has 50 multiple choice questions and is worth 100 points. The final must be taken during the scheduled South Plains College final exams week and by the scheduled day on the syllabus. **NO** make up is available for the final since it is scheduled at the very end of the term. **A missed exam will receive a score of zero. There will be NO make-ups. As always, there is NO LATE WORK ACCEPTED and NO MAKEUPS ALLOWED!! \*\*The only exception will be if the student has been hospitalized. In that situation documentation from the hospital will be required. If you are hospitalized please contact the instructor: Katheryn Townsend at ktownsend@southplainscollege.edu, the nurse: DeEtte Edens, BSN, RN at 806-**

716-2376 or [dedens@southplainscollege.edu](mailto:dedens@southplainscollege.edu), and Lynne Cleavinger, Dean of Students at 806-716-2380, Fax: 806-894-1038.\*\*

- **DROPPING AN EXAM** – At the end of the semester the instructor will drop the (one) lowest Exam grade. If a student reaches the end of the semester (after Exam 5) and is happy with their average they may choose to not take the Final Exam in which it will be graded as a zero (0) but then it would be dropped and no longer affect their average.
- **Cheating** – If a student is caught cheating (see the full definition of cheating in this syllabus and in the SPC catalog under Academic Integrity) on any of the Exams they will receive a 0 for that Exam and that 0 will NOT BE DROPPED!
- Should technical difficulties occur while you are taking the Final Exam, TAKE A PICTURE OF THE SCREEN THAT IT GIVES YOU AND EMAIL THE PICTURE TO ME **IMMEDIATELY!!** This picture should include the entire computer screen with time shown. I cannot guarantee that I can respond to you immediately but everything will be timestamped so I can go back and see what happened and possibly (**NOT GUARANTEED**) restart the Exam for you.

**Computer Problems or BlackBoard or SPC Server Problems:** If a student's internet connection goes down, or a student's computer crashes or otherwise becomes inoperable for BlackBoard, it is the responsibility of the student to have their internet connection and/or computer repaired as soon as possible in order to avoid getting behind in the class or missing due dates. While the computer and/or internet connection is being repaired, the student should seek an alternate technology resources. There are computer labs on both the Levelland and Reese campuses. **Internet problems and/or the crash or inoperability of a computer will not be an acceptable excuse for being late with assignments or exams. PLAN AHEAD!!** It is the responsibility of the student to have a backup plan in place. If BlackBoard or SPC server goes down, the appropriate time extensions will be determined and announced by the instructor.

**Logging into the Course:** You are not allowed to give you user ID and or/password to anyone. You will be dropped and given an **F** for your final grade if someone besides you is caught logging into this course under your user ID and/or password.

**Copyright Notice:** All material presented by the instructor in the course is copyright protected. The material presented by the instructor may not be modified or altered in any way. You have permission to print out one copy of any material presented by the instructor in this course (ex. Class information sheet, course orientation, and chapter module PowerPoint presentations). The one copy must only be used for your personal educational use during this semester. The material may not be altered or modified in any way. The material may not be distributed in any way. You have permission to download the same material to your computer hard drive or other medium in order to print out the material. Any material downloaded material may not be altered or modified in any way. The downloaded material may not be distributed in any way.

**E-Mail:** When you have questions, problems, or comments, you can send an e-mail to [ktownsend@southplainscollege.edu](mailto:ktownsend@southplainscollege.edu). **Please DO NOT use Blackboard messages – they tend to get lost!! Please use SPC Email only!** I will respond to your message within 48 hours if I receive your e-mail between 8:00 AM Monday and 3:45PM Thursday (excluding holidays and school breaks). E-mails received during the time period lasting from 3:45PM Thursday to 8:00 AM Monday of the following week will receive a response within 48 hours of that Monday (excluding holidays and school breaks). Emails received during holidays or school breaks will receive a response within 48 hours from when SPC resumes normal school hours.

**Expectations when Corresponding:** Please be polite, courteous, and respectful when using BlackBoard messages, e-mail discussion forums, and chat rooms. Do not use profanity under any circumstances. Do not write disrespectful, insulting, mean, rude, profane, insensitive, or any other hurtful messages or comments under any

circumstances. Failure to abide by this policy will result in the appropriate disciplinary actions. Students are expected to maintain a pleasant learning environment for themselves as well for their classmates. Therefore, if, in the view of the instructor, a student is disrupting the class the appropriate disciplinary action will be taken.

**Online Disclaimer:** This is to notify you that materials you may be accessing in chat rooms, messages, discussion forums or unofficial web pages are not officially sponsored by the instructor of South Plains College. The United States Constitution rights of free speech apply to all members of our community regardless of the medium used. The instructor and South Plains College disclaim all liability for data, information, or opinions expressed in these forums.

**This course partially satisfies a Core Curriculum Requirement:**

Life and Physical Sciences Foundational Component Area (030)

**Core Curriculum Objectives addressed:**

- **Communications skills**—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 competency skills**—to manipulate and analyze numerical data or observable facts resulting in informed conclusions
- **Teamwork**—to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

**Student Learning Outcomes:**

- **From Lecture:**  
Upon successful completion of this course, students will:
  1. Define the fundamental properties of matter.
  2. Classify matter, compounds, and chemical reactions.
  3. Determine the basic nuclear and electronic structure of atoms.
  4. Identify trends in chemical and physical properties of the elements using the Periodic Table.
  5. Describe the bonding in and the shape of simple molecules and ions.
  6. Solve stoichiometric problems.
  7. Write chemical formulas.
  8. Write and balance equations.
  9. Use the rules of nomenclature to name chemical compounds.
  10. Define the types and characteristics of chemical reactions.
  11. Use the gas laws and basics of the Kinetic Molecular Theory to solve gas problems.
  12. Determine the role of energy in physical changes and chemical reactions.
  13. Convert units of measure and demonstrate dimensional analysis skills
- **From Lab:**  
Upon successful completion of this course, students will:
  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.

**Student Learning Outcomes Assessment:** Three questions from Exams will be used to assess student learning outcomes.

**Course Evaluation:**

Exams 70%

Labs 30%

Grades will be assigned on the following basis:

90 – 100      A

80 – 89        B

70 – 79        C

60 – 69        D

< 60            F

- Grades are recorded in the Blackboard Gradebook so that you can view them at any time. Keep in mind that as due dates pass and zeros are entered into the gradebook for missing work, averages can change drastically and quickly!

**Attendance Policy:** Students are expected to login frequently in order to be successful in this course. Students who enroll in a course but have “Never Attended” by not logging into this course on Blackboard or by not attending the face-to-face labs by the official census date, as reported by the instructor, will be administratively dropped by the Office of Admissions and Records. Once we are past the official census date I do not drop students for non-attendance/activity. It is the student’s responsibility to initiate the drop process if you decide to not complete the course. All missing work will receive zeros in the gradebook. If a student does not drop the course then the grade that the student has at the end of the semester is what will be submitted to Texan Connect. This may be an ‘F’ depending on grades/missing work/zeros, etc. Regular, consistent participation is required for this course. Any activity missed, regardless of cause, reduces the opportunity for learning and may adversely affect a student’s achievement.

**Tutor:** Tutoring (both face to face and online) might be available during the semester. Please check the South Plains College Tutoring website for more information.

**Plagiarism and Cheating:** Students are expected to do their own work on all assignments. Failure to comply with this policy will result in an F for the assignment and can result in an F for the course if circumstances warrant. If a student is caught cheating (see the full definition of cheating in this syllabus and in the SPC catalog under Academic Integrity) on any of the Exams they will receive a 0 for that Exam and that 0 will NOT BE DROPPED!

Plagiarism violations include, but are not limited to, the following:

1. Turning in a paper that has been purchased, borrowed, or downloaded from another student, an online term paper site, or a mail order term paper mill;
2. Cutting and pasting together information from books, articles, other papers, or online sites without providing proper documentation;
3. Using direct quotations (three or more words) from a source without showing them to be direct quotations and citing them; or
4. Missing in-text citations.

Cheating violations include, but are not limited to, the following:

1. Obtaining an examination by stealing or collusion;
2. Discovering the content of an examination before it is given;
3. Using an unauthorized source of information (notes, textbook, text messaging, internet, apps) during an examination, quiz, or homework assignment;
4. Entering an office or building to obtain unfair advantage;
5. Taking an examination for another;
6. Altering grade records;
7. Copying another's work during an examination or on a homework assignment;
8. Rewriting another student's work in Peer Editing so that the writing is no longer the original student's;
9. Taking pictures of a test, test answers, or someone else's paper.

**Student Code of Conduct Policy:** Any successful learning experience requires mutual respect on the part of the student and the instructor. Neither instructor nor student should be subject to others' behavior that is rude, disruptive, intimidating, aggressive, or demeaning. Student conduct that disrupts the learning process or is deemed disrespectful or threatening shall not be tolerated and may lead to disciplinary action and/or removal from class.

**Course Syllabi Statements are located at:** <https://www.southplainscollege.edu/syllabusstatements/>



## EXAM OVERVIEW

### Exam 1

#### Lab Safety

**Chapter 1:** Chemistry: The Study of Change

*Learning Objective Met: Lecture #1,#2, #13*

**Chapter 2:** Atoms, Molecules, and Ions

*Learning Objective Met: Lecture #2, #3, #5, #7, #9*

**Experiment 1:** Introduction to Lab Equipment

*Learning Objectives Met: all Lab LOs*

**Experiment 2:** Measurements

*Learning Objectives Met: Lecture #1, #13, all Lab LOs*

**Experiment 3:** Density

*Learning Objectives Met: Lecture #1, #13, all Lab LOs*

**Lab Worksheet 1:** Determining Chemical Formulas and Names

*Learning Objectives Met: Lecture #2, #7, #8, #9*

**Experiment 4:** Atoms and Molecules

*Learning Objectives Met: Lecture #3, #9, all Lab LOs*

### Exam 2

**Chapter 3:** Mass Relationships in Chemical Reactions

*Learning Objective Met: Lecture #6, #7, #8, #10*

**Chapter 4:** Reactions in Aqueous Solution

*Learning Objective Met: Lecture #7, #8, #10, #12*

**Experiment 5:** Determining the Mole Ratios in a Chemical Reaction

*Learning Objectives Met: Lecture #7, #8, #12, all Lab LOs*

**Experiment 6:** Hydrates

*Learning Objectives Met: Lecture #2, #7, #12, all Lab LOs*

**Experiment 7:** Properties of Solutions: Electrolytes and Non-Electrolytes

*Learning Objectives Met: all Lab LOs*

**Lab Worksheet 2:** Precipitation Reactions

*Learning Objectives Met: Lecture #7, #8, #9, #10*

**Experiment 8:** Determine the Molar Mass by Titration

*Learning Objectives Met: Lecture #6, #7, #8, all Lab LOs*

### Exam 3

**Chapter 5:** Gases

*Learning Objective Met: Lecture #11*

**Chapter 6:** Thermochemistry

*Learning Objective Met: Lecture #10, #12*

**Experiment 9:** Boyle's Law: Pressure-Volume Relationships in Gases

*Learning Objectives Met: Lecture #11, all Lab LOs*

**Experiment 10:** Calorimetry of Metals

*Learning Objectives Met: Lecture #12, all Lab LOs*

### Exam 4

**Chapter 7:** Quantum Theory and the Electronic Structure of Atoms

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

**Chapter 8:** Periodic Relationships Among the Elements

*Learning Objective Met: Lecture #4*

**Exam 5****Chapter 9:** Chemical Bonding I: Basic Concepts*Learning Objective Met: Lecture #5***Chapter 10:** Chemical Bonding II: Molecular Geometry and Hybridization of Atomic Orbitals*Learning Objective Met: Lecture #5***Experiment 13:** Models (VSEPR)*Learning Objective Met: Lecture #3, all Lab LOs***Final Exam**

Comprehensive

CHEM 1411 FLEX SCHEDULE

We will follow this schedule as closely as possible. Any changes will be announced as we go!

All details/instructions for assignments and Exams are in the syllabus and on Blackboard.

WEEK:	IN PERSON LAB	RECOMMENDED LECTURE SCHEDULE	WHAT'S DUE THIS WEEK:
WEEK 1: January 16 - 21	TUESDAY JAN. 16 Introduction	Read Lab Safety PowerPoint Begin Chapter 1 notes and worksheet Begin Exam 1 Practice Problems	Nothing due yet - but get ready! Due Dates are coming! Put them in your calendar!
	THURSDAY JAN. 18 Lab Safety		
WEEK 2: January 22 - 28	TUESDAY JAN. 23 Experiment 0	Finish Chapter 1 notes and worksheet Continue Exam 1 Practice Problems	<b>DUE BY 11:00AM ON TUESDAY JANUARY 23RD: ONLINE ASSIGNMENT (BOTH PARTS)</b>
	THURSDAY JAN. 25 Experiment 1		
WEEK 3: January 29 - February 4	TUESDAY JAN. 30 Experiment 2	Begin Chapter 2 notes and worksheet Continue Exam 1 Practice Problems	
	THURSDAY FEB. 1 Chapter 1 Worksheet		
WEEK 4: February 5 - 11	TUESDAY FEB. 6 Experiment 3	Finish Chapter 2 notes and worksheet Finish Exam 1 Practice Problems	
	THURSDAY FEB. 8 Experiment 13		
WEEK 5: February 12 - 18	TUESDAY FEB. 13 Chapter 2 Worksheet	Review Chapters 1 & 2 TAKE EXAM 1 Begin Chapter 3 notes and worksheet	<b>EXAM 1 opens Tuesday February 13th at 11:00AM and closes Thursday February 15th at 11:00AM</b>
	THURSDAY FEB. 15 <b>NO LAB! EXAM DUE!</b>		
WEEK 6: February 19 - 25	TUESDAY FEB. 20 Experiment 5	Finish Chapter 3 notes and worksheet Begin Exam 2 Practice Problems	
	THURSDAY FEB. 22 Experiment 4		
WEEK 7: February 26 - March 3	TUESDAY FEB. 27 Chapter 3 Worksheet	Begin Chapter 4 notes and worksheet Continue Exam 2 Practice Problems	
	THURSDAY FEB. 29 Experiment 14		
WEEK 8: March 4 - 10	TUESDAY MAR. 5 Experiment 6	Finish Chapter 4 notes and worksheet Finish Exam 2 Practice Problems Create Poster #1	
	THURSDAY MAR. 7 Poster Work		
**** March 11 - 17	<b>NO LAB! SPRING BREAK!!</b>	REST AND RELAX GET CAUGHT UP OR GET AHEAD!	<b>SPRING BREAK NOTHING DUE THIS WEEK!</b>

WEEK 9: March 18 - 24	TUESDAY MAR. 19 Chapter 4 Worksheet	Review Chapters 1 - 4 TAKE EXAM 2 Begin Chapter 5 notes and worksheet	Poster #1 - due by class on Tuesday March 19th  Exam 2 opens Tuesday March 19th at 11:00AM and closes Thursday March 21st at 11:00AM
	THURSDAY MAR. 21 NO LAB! EXAM DUE!		
WEEK 10: March 25 - 31	TUESDAY MAR. 26 Experiment 7	Finish Chapter 5 notes and worksheet Begin Chapter 6 notes and worksheet Begin Exam 3 Practice Problems	
	THURSDAY MAR. 28 Experiment 8		
WEEK 11: April 1 - 7	TUESDAY APR. 2 Experiment 10	Finish Chapter 6 notes and worksheet Finish Exam 3 Practice Problems	
	THURSDAY APR. 4 Experiment 9		
WEEK 12: April 8 - 14	TUESDAY APR. 9 Chpts 5&6 Worksheet	Review Chapters 1 - 6 TAKE EXAM 3 Begin Chapter 7 notes and worksheet Begin Exam 4 Practice Problems	Exam 3 opens Tuesday April 9th at 11:00AM and closes Thursday April 11th at 11:00AM
	THURSDAY APR. 11 NO LAB! EXAM DUE!		
WEEK 13: April 15 - 21	TUESDAY APR. 16 Experiment 11B	Finish Chapter 7 notes and worksheet Cover all of Chapter 8 notes and worksheet Finish Exam 4 Practice Problems	
	THURSDAY APR. 18 Chapter 7 Worksheet		
WEEK 14: April 22 - 28	TUESDAY APR. 23 Chapter 8 & Poster	Review Chapters 1 - 8 TAKE EXAM 4 Begin Chapter 9 notes and worksheet Begin Exam 5 Practice Problems Create Poster #2	Exam 4 opens Tuesday April 23rd at 11:00AM and closes Thursday April 25th at 11:00AM
	THURSDAY APR. 25 NO LAB! EXAM DUE!		
WEEK 15: April 29 - May 5	TUESDAY APR. 30 Exp. 16/ Chpts 9&10	Finish Chapter 9 notes and worksheet Cover all of Chapter 10 notes and worksheet Finish Exam 5 Practice Problems TAKE EXAM 5	Poster #2 - due by class on Tuesday April 30th  Exam 5 opens Tuesday April 30th at 11:00AM and closes Thursday May 2nd at 11:00AM
	THURSDAY MAY 2 NO LAB! EXAM DUE!		
WEEK 16: May 6	NO LAB FINAL EXAM DUE!!	FINAL EXAM	FINAL EXAM - OPENS Monday May 6 at 8:00AM and CLOSES Wednesday May 8 at 11:00AM