Instructor Information

Instructor: Dr. Madhu Shaw Reniguntala
Office: Building B Rm 105A
Mailbox: Building B Rm 105A

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Phone: 501-771-6071
Email: mreniguntala@uaptc.edu

*All emails and telephone calls will receive a response within 24-48 hours

Chair: Mr. Thomas Russell 501-812-2705 trussell@uaptc.edu
Dean: Dr. Marico B. Howe 501-812-2342 mbryanthowe@uaptc.edu

*If your emails and telephone calls do not receive a response within 48 hours, the appropriate chain of command is above.

Course Information

The Fundamental Chemistry 1 (CHEM1403-05) course is a 4 credit hour course (3 hours lecture per week and 2 lab hours). The course meets twice a week on campus as follows:

Lecture: Thursday 6:00 pm – 8:40 pm SciB 103
Lab: Tuesday 6:00 pm – 7:50 pm SciB 104

Blackboard will be used for resource distribution and practice exams.

Catalog Description
This is an algebra-based chemistry course specifically designed for majors in health-related professions. The course content provides a foundation for work in health-related areas and is not appropriate for chemistry or other science majors or pre-professional students. Nomenclature, atomic and molecular structure, bonding and reactions are explored. Lab is required. (3 lecture hours/2 laboratory hours per week)

**PREREQUISITE:** Students enrolled in CHEM 1403 must meet the following requirement(s):
- Completion of MATH 1302 (College Algebra) with a grade of "C" or better.

**Course Materials**

a. Required textbooks:

b. Other Requirements:
   - Laboratory Goggles (Chemical Splash Proof)
   - Scientific calculator (TI-83 or TI-84 Scientific Calculator)

**Mission Statement**

University of Arkansas – Pulaski Technical College provides access to high-quality education that promotes student learning and enables individuals to develop to their fullest potential.

**Institutional Learning Outcomes and General Education**

UA-PTC supports a college-wide institutional learning assessment program, which concerns effective instructional methods and promotes student learning achievement by assessing:

1. Communication
2. Critical Thinking
3. Cultural Awareness
4. Information Literacy
5. Professionalism
6. Quantitative Literacy
7. Technology Literacy

For more information, please consult the following website: https://uaptc.edu/sla/learning-outcomes/student-learning-outcomes

**Department / Program Learning Outcomes**

1. Critical and investigative thought
2. Academic Integrity
3. Independent thinking and learning
4. Written communication on a collegiate level
5. Exposure to chemistry as a physical science
6. Recognition of the influence of scientific thought on individuals and society
7. Collaborative investigation
8. Basic mastery of scientific concepts and the demonstration of scientific skills
9. Correct use of instrumentation and equipment in chemistry and proper laboratory techniques

**Student Learning / Course Outcomes**

*ACTS # Chem 1214*

This course and its textbook are based upon the recommendations of the Task Force on the General Chemistry Curriculum in the Division of Chemical Education of the American Chemical Society. This course also complies with the Arkansas Statewide Transfer Index Peer Review for Chemistry I for Health Related Professions.

**Course Outcomes:**

Upon completion of this course, the student should be able to:

1. Work comfortably with conversions that are common in scientific study. These will include temperature conversions, metric-American conversions, and metric pre-fix conversions.
2. Be able to work successfully with significant digits and round all calculations to the correct accuracy.
3. Define and recognize chemical and physical properties; define elements and compounds; understand the distinction between atoms, elements, ions, and isotopes; be aware of the structure and patterns of the Periodic Table.
4. Understand the modern model of the atom and be able to predict electron configurations based on a working knowledge of orbitals.
5. Understand chemical formulas as representations of compounds. Understand the bonding, naming, structure, and physical properties of ionic and covalent compounds.
6. Define valence electrons. Write Lewis structures; understand bond angles and electronegativity. Define, recognize, and distinguish polar bonds and polar molecules; predict the geometry of molecules using the VSEPR Theory.
7. Understand the concept of a mole and its relation to atomic and molecular mass. Convert grams to moles, moles to atoms and or molecules and be able to reverse the process.
8. Understand, balance, and classify major types of chemical reactions, including single replacement, double replacement, combustion, and oxidation-reduction reactions. Perform stoichiometric calculations based upon chemical reactions; understand and perform calculations with limiting reactants. Predict products of single and double displacement and combustion reactions and identify oxidized and reduced substances. Predict the energy exchanged in chemical reactions.
9. Comprehend the major variables when dealing with gases and how they relate to one another. Gas laws will include Boyle’s, Charles’, Gay-Lussac’s, Combined, and Ideal.
10. Understand the role of solutions in chemistry, concentration terms, and calculations of solution concentrations in chemistry. These include Molarity, molality, percentage concentrations, ppm, ppb, and equivalents.
11. Understand the different definition of acids and bases, reactions between acids and bases, buffers, equilibrium, titration techniques, and pH, and perform calculations with these concepts.
12. Understand basic definitions, reactions, decay types, and uses of nuclear chemistry. Also understand half-life and be able to do calculations involving half-life.

**Policies**

**Report a Complaint or Concern**

UA-PTC takes very seriously complaints and concerns regarding the institution. Most complaints or concerns of a specific nature should be initiated and resolved at the campus level through normal college processes whenever possible. UA - Pulaski Technical College receives and resolves complaints using a variety of methods. To report a complaint or concern, please follow the link below.
UA-PTC Attendance Policy
Education at UA-PTC requires students’ active involvement in the learning process. Thus, students are expected to attend all classes and actively engage in all learning assignments and/or opportunities provided in their classes. Class attendance should be treated as mandatory by all students as attendance will be taken by all instructors during the first two weeks of class. Additionally, a written policy on student attendance that is tied to course objectives and included in a course syllabus will be provided for each course by instructors.

Department Attendance Policy
Agencies granting financial assistance may be notified of the violation of the attendance policy by students receiving financial aid.

Attendance is taken starting the first day of the semester, with the exception of students who enroll after classes have started. Instructors have the right to count students as absent if they arrive late to class, leave class early, or go in and out of the classroom during class time. Instructors have the right to lower a student’s grade based on excessive absences.

You will be given a failing grade (F) for the course if you miss more than 25% of lab sessions regardless of your overall grade. You will be given a failing grade (F) for the course if you miss more than 25% of lecture sessions regardless of your overall grade.

Any student who does not attend within the first two weeks of class will be considered a “no show” according to the campus attendance policy and will be reported as such and dropped from the class.

Attendance Artifact Policy
Attendance and participation are both required for this class and are tracked using daily signing sheets records.

Lecture: If a student misses a lecture session, it is the student’s responsibility to get lecture notes from another student.

Lab:
Tardy - If a student is more than 10 minutes late for the start of a laboratory period, the grade on that day’s experiment will be reduced by 25%. If more than 30 minutes late, the student’s grade for that lab will be reduced by 50%. If a student leaves the lab before the experiment is completed, the grade for that lab will be reduced proportionally.

Absences - Since each experiment must be set up at the beginning of the lab session and broken down at the end of the lab session, **there can be no lab make-ups allowed if a student misses.**

Course Policies
The UA-PTC Catalogue rules and regulations will be enforced in this course at all times.

Please consult the following website for more information: [https://www.uaptc.edu/catalog](https://www.uaptc.edu/catalog)
Professional behavior is required. Punctual attendance and intelligent participation are expected. Particulars as determined by the instructor are detailed in the paragraph below.
Appropriate behavior is expected for all communications, including any notes, email messages, or telephone conversations. Some guidelines for communication are included in this syllabus to help you.

Cell Phones: Ultimately, it is the student’s choice to be in class. If you make the decision to attend lab/class please respect the same decision from your peers by not distracting from class with cell phone / messaging usage. Cell phone use in lab is considered unsafe laboratory practice and is subject to the relevant penalties. Cell phone and other communication during exams will be considered Academic Dishonesty (cheating). The instructor recognizes that situations do occur that require a student’s availability by phone, please contact me prior to class/lab/exam and appropriate arrangements can be made.

IMPORTANT NOTE: Students may not bring food or drink items in the classroom or laboratory. Students may not bring a child to the classroom or laboratory; no exceptions.

Lab: Lab safety is a top priority in this class. All students will receive safety training before being allowed to attend further labs. Students found in violation of the safety practices taught in this class may face penalties including loss of points, removal from lab, failure of the class, and any other disciplinary actions deemed appropriate by the instructor. Students must wear impact / splash resistant eye protection when working with laboratory chemicals. For protection against transmitted diseases, it is highly recommended that students provide their own eye protection (Safety Goggles). Contact lenses, prescription eyeglasses, or sunglasses are not eye protection. Students will not be allowed to work in lab unless the pre-lab assignment is turned in prior to the start of the lab section unless instructed by the professor. Students may not bring items of food or drink into the laboratory.

Grading Policy
Letter grades will be based on the following scale:

<table>
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<tr>
<th>Percentage Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90 to 100%</td>
<td>A</td>
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<tr>
<td>80 to 89%</td>
<td>B</td>
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<tr>
<td>70 to 79%</td>
<td>C</td>
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<tr>
<td>60 to 69%</td>
<td>D</td>
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<tr>
<td>0 to 59%</td>
<td>F</td>
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</tbody>
</table>

The final grade in the course will be based on the weighted average of six categories with the following weights: Laboratory Experiments (25%), Information Literacy (5%), Quizzes (15%), Homework (10%), Tests (25%), and Final exam (20%).

The “percents” (not points!) of each assignment within a category will be averaged to give the pre-weighted value. Each category “percent” will then be weighted to give a contribution to the final course grade. These contributions will be summed and then divided by “100” giving the final course grade percent.

A sample weighted average calculation is shown in the table below:

<table>
<thead>
<tr>
<th>Category</th>
<th>Pre-Weighted Value</th>
<th>Weight %</th>
<th>Weighted Contribution</th>
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<tbody>
<tr>
<td>Lab Experiments</td>
<td>93</td>
<td>25</td>
<td>2325</td>
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<tr>
<td>Information Literacy</td>
<td>96</td>
<td>5</td>
<td>480</td>
</tr>
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<td>Quizzes</td>
<td>65</td>
<td>15</td>
<td>975</td>
</tr>
<tr>
<td>Homework</td>
<td>95</td>
<td>10</td>
<td>950</td>
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</table>
A. Tests and the Final Exam

Four concept tests and a final will be given during the semester. All tests will be given on a Thursday. The following is an outline of the tests and the material they will cover; test dates are noted on the Calendar of Assignments:

<table>
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<tr>
<th>Description</th>
<th>Topics</th>
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<tbody>
<tr>
<td>Test 1</td>
<td>Chapters 1</td>
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<td>Test 2</td>
<td>Chapters 2, 3</td>
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<td>Test 3</td>
<td>Chapters 4</td>
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<td>Test 4</td>
<td>Chapters 5-8</td>
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<tr>
<td>Final Exam</td>
<td>Comprehensive</td>
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The test must be completed during the class period. Tests also cannot be made up.

- If a test is missed, the percentage grade on the final will replace the zero on one missed test. If a student is present for all concept tests, the final exam percent can replace his or her lowest test grade, providing that the percentage on the final exam is higher than the lowest concept percentage test grade.
- The Final Exam (130 points) will be comprehensive and will be given per UA-Pulaski Technical College’s “Final Exam Schedule” for Spring 2019.

B. Homework and Quizzes

Homework:

A list of homework questions are provided at the end of the syllabus.

Each lecture will conclude with assignment of homework problems assigned for that lecture. If you miss a lecture, it is still your responsibility to have worked all the assigned problems prior to the due date. Students are encouraged to seek help from the Learning Assistance Center starting on the first day to take full advantage of these facilities. I will be available during office hours to assist with homework only after the student has attempted the assignment and has sought the appropriate tutoring.

Quizzes:

Quizzes will be given regularly throughout the semester at the beginning of the class period; they may not be announced in advance. The quizzes are always a subset of the previous lecture’s assigned homework. In this way, you get additional reinforcement for keeping current with your homework, prior to coming to class. The real reward is on exams—experience shows exam and quiz scores are highly correlated!

C. Lab

Laboratories are worth 100 points each and count as 25% of your grade. You will work in small groups under my supervision, and fill out data sheets as well as assigned questions on each. While group members will have the same numerical data, each student is responsible for their own data sheet which is turned in at the end of the lab. Wrong data and answers will count off from the 100 points possible. When in the lab, you agree to work only the assigned experiment(s), in the manner
determined by the instructor, and in the safest manner possible. **There are no laboratory makeup sessions, and misses count as zero points for that lab.** If you are late or leave early (less than 10 minutes) 20% is counted off, and if less than 30 minutes (late or leave early) 40% is counted off—outside of 30 minutes is no credit.

**D. Incompletes**
If a student has completed 60% of the course work and has a current grade of C, an incomplete may be given in an extreme emergency. The exact conditions are presented in the student handbook. A student requesting an incomplete must sign a statement regarding the date and time by which the remaining coursework must be completed. A copy of this statement will be kept on file in the Dean's office.

**E. Information Technology Requirement:**
This course will incorporate an Information Literacy Assignment that will serve as 5% of your course grade. For further details on the Information Literacy Assignment, please refer to Section XIV. Additional details regarding the assignment will be provided during the course. It is due on **Thursday, April 25th, 2019; No late turn in is accepted**. The paper **must** be submitted to the instructor as a **hard copy (stapled upper left corner)**. Plagiarism is a serious, specific violation of UA-PTC’s Academic Integrity Policy; dealt with per the Student Handbook.

**Drop Date:**
Instructors will not be able to drop a student due to non-attendance. Therefore, it is the student’s responsibility to drop the class if failing or receive a failing grade.

The UA-Pulaski Technical College Academic Calendar provides the last date a course may be dropped is **Tuesday, January 15th, 2019** and the Last Day to Withdraw is **Wednesday, April 17th, 2019**.

**Academic Integrity**
It is expected that all students who attend UA-PTC conduct themselves in a manner appropriate for the college experience. Academic integrity is a vital component of collegiate behavior. The UA-PTC catalogue states, “The gaining of knowledge and the practice of honesty go hand-in-hand.”

The catalogue also states, “The responsibility and authority of initiating discipline arising from violations of the rules against dishonesty during the process of the course are vested in the instructor of that course.”

The complete Academic Integrity Policy is in the UA-PTC code of conduct.

**Plagiarism**
According to the Merriam-Webster dictionary, plagiarism is defined as, “the act of using another person's words or ideas without giving credit to that person”. It is a serious offense and will not be tolerated.

A good reference for recognizing and avoiding plagiarism is listed below. Please click on the link after you have downloaded this syllabus and ensure you review the information provided:

http://www.indiana.edu/~wts/pamphlets/plagiarism.shtml#strategies

If plagiarism is found in your writings for this course, that assignment will be given a zero grade.

**Accommodation Policy**
Services for Students with Disabilities: UA-PTC is committed to fulfilling all federal requirements as stated in the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and the American with Disabilities Amendments Act (ADAAA) of 2008. Accommodations are available to students who have documented disabilities. Students who request accommodations must register with the Disability Services Office (Main Campus: 501-812-2738 or South Campus: 501-812-2862) and must provide current and relevant documentation.

Students requesting accommodations should inform the instructor at the beginning of the course or as soon as accommodations are approved. It is the student's responsibility to provide their Accommodation Letter to the instructor. Accommodations are not retroactive and will only be provided once your instructor receives the Accommodation Letter.

**Student Code of Conduct**
All students are expected to abide by the UA-PTC Student Code of Conduct. For the full Student Code of Conduct, access the most current version of the UA-PTC Academic Catalog.

http://uaptc.azurewebsites.net/docs/default-source/course-catalog/2017-18-academic-catalog.pdf?sfvrsn=a08a3038_2

**Sexual Misconduct**
No person at Pulaski Technical College will, on the basis of gender, be excluded from participation in, be denied benefits of, or be subjected to sex discrimination, sexual harassment or sexual misconduct under any education program or activity. All college administrative policies and procedures regarding sex discrimination, sexual harassment, and sexual misconduct are in compliance with Title IX. Students who feel they are victims of sexual misconduct should contact the UA-PTC Title IX Deputy Coordinator for Students:

Michelle Anderson, Director of Student Life and Leadership
Campus Center Building Room 216
501-812-2756
manderson@uaptc.edu

**Course Evaluations**
Students may be asked to evaluate their instructor and course near the end of the semester. These student evaluations are very important to the improvement in the quality of instruction and course materials. All results are anonymous and shared with the faculty only after the semester is over and grades have been posted.

**Information Literacy**
UA-PTC is committed to the Information Literacy Competency Standards for Higher Education as established by the Association of College and Research Libraries and endorsed by the National Forum on Information Literacy. Therefore, all courses will incorporate an information literacy component so that, by graduation, all students will be able to recognize the need for information, then locate, evaluate, synthesize, and communicate information in an ethical manner. Information literacy encompasses critical thinking, research, media, technology, health, business, and visual literacy skills to produce lifelong learners who can make informed decisions in the workplace and in their personal lives.
Tentative Course Schedule

Four concept tests will be given in class during the semester. The date of a concept test will be announced at least one week in advance. Exams cannot be made up. The following is a course outline:

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Assignments and Activity</th>
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| 1    | 1/9/19 – 1/11/19 | Syllabus and Read pages 1-15  
NO LAB  
HMWK: Ch 1 Homework problems  
Assignment: Complete Pre-lab for next week (Metric & American Conversions) |
| 2    | 1/14/19 – 1/18/19 | Read pages 16-21  
HMWK: Ch 1 Homework problems continued  
LAB: Metric & American Conversions  
Assignment: Complete Pre-lab for next week (Significant Digits) |
| 3    | 1/21/19 – 1/25/19 | Read pages 22-36  
HMWK: Ch 1 Homework problems continued  
LAB: Significant Digits |
| 4    | 1/28/19 – 2/1/19 | Review for Test  
HMWK: Ch 1 Homework problems continued  
NO LAB  
Infor. Literacy Topic Selection Due |
| 5    | 2/4/19 – 2/8/19 | Read pages 43-51  
HMWK: Ch 2 Homework problems  
LAB: Safety & Laboratory Equipment  
Test 1 (Chapter 1)  
Assignment: Complete Pre-lab for next week (Identity of a Liquid) |
| 6    | 2/11/19 – 2/15/19 | Read pages 55-75  
HMWK: Ch 2 Homework problems continued  
LAB: Identity of a Liquid  
Assignment: Complete Pre-lab for next week (% Water in a Hydrate) |
| 7    | 2/18/19 – 2/22/19 | Read pages 84-102  
Memorize: Table 3.3 (in red) & Table 3.4 in Chapter 3  
HMWK: Ch 3 Homework problems  
LAB: % Water in a Hydrate  
Assignment: Complete Pre-lab for next week (Separating a Binary Mixture) |
| 8    | 2/25/19 – 3/1/19 | Read pages 103-112  
HMWK: Ch 3 Homework problems continued  
LAB: Separating a Binary Mixture  
Assignment: Complete Pre-lab for next week (Molecular Geometry) |
| 9    | 3/4/19 – 3/8/19 | Read pages 112-120 (VSEPR Theory)  
HMWK: Ch 3 Homework problems related to VSEPR  
LAB: Molecular Geometry  
Test 2 (Chapter 2, 3)  
Assignment: Complete Pre-lab for next week (Gram, Mole & Particle |
<table>
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<tr>
<th>Date</th>
<th>Assignments</th>
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| 3/11/19 – 3/15/19 | Read pages 128-146  
HMWK: Ch 4 Homework problems  
LAB: Gram, Mole & Particle Conversions  
**Assignment: Complete Pre-lab for next week (Chemical Reactions)** |
| 3/18/19 – 3/22/19 | Spring Break  
**Assignment: Complete Pre-lab for next week (Chemical Reactions)** |
| 3/25/19 – 3/29/19 | Read pages 146-159  
HMWK: Ch 4 Homework problems continued  
LAB: Chemical Reactions  
**Assignment: Complete Pre-lab for next week (Molar Relationships in Reactions)** |
| 4/1/19 – 4/5/19 | Read pages 166-179  
HMWK: Ch 5 Homework problems  
LAB: Molar Relationships in Reactions  
Test 3 (Chapter 4 and VSEPR Theory)  
**Assignment: Complete Pre-lab for next week (Gas Concepts)** |
| 4/8/19 – 4/12/19 | Read pages 182-184  
HMWK: Ch 5 Homework problems continued  
Read pages 194-220  
HMWK: Ch 6 Homework problems  
LAB: Gas Concepts  
**Assignment: Complete Pre-lab for next week (Acetic Acid Content of Vinegar)** |
| 4/15/19 – 4/19/19 | Read pages 227-256  
HMWK: Ch 7 Homework problems  
LAB: Acetic Acid Content of Vinegar  
**Assignment: Complete Pre-lab for next week (Making Solutions)** |
| 4/22/19 – 4/26/19 | Read pages 262-278  
Read pages 283-286  
HMWK: Ch8 Homework problems  
LAB: Making Solutions |
| 4/29/19 – 5/3/19 | Read pages 298-308  
HMWK: Ch9 Homework problems  
REVIEW FOR FINALS  
Info. Literacy Paper Due  
Test 4 (Chapters 5-8) |
| 5/6/19 – 5/10/19 | FINALS |

**Final Exam Schedule:**  
*Thursday, May 9th, 2019; 6:30 p.m. – 8:30 p.m.*

**Disclaimer:** This schedule is a guide for the semester. The instructor reserves the right to amend the schedule as necessary.
ATTACHMENT – HOMEWORK

Legend for Homework Assignment:

Q = Questions, E = Examples, PP = Practice Problems, CTP = Critical Thinking Problems. Those surrounded by ( ) are inside the chapter. Bold questions are at the end of the chapter. Odd numbered Question Answers are provided at the end of the book. Practice Problem Answers are provided at the end of the chapter.

Chapter 1:
Q1.51, Q1.52, Q1.45, Q1.46, Q1.57, Q1.58, Q1.79 b, d; Q1.80 d, c; Q1.91 a, b; Q1.92 a, b; Q1.93 a, b; Q1.94 a, b; Q1.95, Q1.96, Q1.97, Q1.98, Q1.115, Q1.116, Q1.121, Q1.122, Q1.125, Q1.126, Q1.123, Q1.124, Q1.130, Q1.133, CTP3

Chapter 2:
Q2.35, Q2.36, Q2.37, Q2.38, Q2.85; Q2.86; Q2.87; Q2.93, Q2.94, Q2.101, Q2.102

Chapter 3:
Q3.23, Q3.24, Q3.25, Q3.26, Q3.37, Q3.38, Q3.43, Q3.44, Q3.45, Q3.46, Q3.41, Q3.42, Q3.51, Q3.52, Q3.79, Q3.80, Q3.83, Q3.84, Q3.87, Q3.88, Q3.101, Q3.102, Q3.103, Q3.104, Q3.95, Q3.96

Chapter 4:
Q4.15, Q4.16, Q4.17, Q4.18, Q4.19, Q4.20, Q4.21, Q4.22, Q4.29, Q4.30, Q4.25, Q4.26, (PP4.7), Q4.33, Q4.34, Q4.35, Q4.36, Q4.37, Q4.38, Q4.67, Q4.71 a, b, c; Q4.72 a, b, c; Q4.71 d, e; Q4.72 d, e; Q4.73, Q4.74, Q4.77, Q4.78, Q4.79, Q4.80, Q4.27, Q4.28, Q4.85, Q4.86, Q4.87, Q4.88, Q4.89, Q4.90, Q4.93, Q4.94, Q4.95, Q4.96, Q4.101, Q4.102

Chapter 5:
Q5.35, Q5.36, Q5.42, Q5.44, Q5.51, Q5.52, Q5.53, Q5.54, Q5.59, Q5.60, Q5.63, Q5.64, Q5.67, Q5.68, (Q5.6), (Q5.11), (Q5.12)

Chapter 6:
Q6.23, Q6.24, Q6.33, Q6.34, Q6.27, Q6.28, Q6.37, Q6.38, Q6.41, Q6.42, Q6.43, Q6.44, Q6.48, Q6.49, Q6.47, Q6.50, Q6.65 a, Q6.66 a, Q6.65 b, Q6.66 b, Q6.81, Q6.82, Q6.71, Q6.72, Q6.93, Q6.94, Q6.101, Q6.102, Q6.105, Q6.106,

Chapter 7:
Q7.23, Q7.24, Q7.41, Q7.42, Q7.35, Q7.36, Q7.38, Q7.49, Q7.50, Q7.77, Q7.78, (E7.8), (PP7.8), Q7.81, Q7.83, (Q7.17), (E7.9), Q7.82, Q7.84, Q7.85, Q7.86, Q7.87, Q7.88
Chapter 8:
Q8.29, Q8.30, Q8.49, Q8.50, Q8.51, Q8.52, Q8.53, Q8.54, Q8.55, Q8.56, Q8.57, Q8.67, Q8.68, Q8.63, Q8.77, Q8.78, Q8.87, Q8.88, Q8.91, Q8.92, (Q8.9), (Q8.11), (Q8.13), (Q8.15), (Q8.17), (Q8.19), (Q8.21).

Chapter 9:
(Q9.1), Q9.44, Q9.50, (Q9.3), Q9.43, Q9.45, (PP9.3), Q9.51, Q9.52, (Q9.7), (E9.4), Q9.63, Q9.64, (Q9.9), (Q9.11), (Q9.3), (Q9.15).
Course Agreement Form

Read, complete, and return to instructor:

I have read the course syllabus for Dr. Reniguntala’s Fundamental Chemistry I class at Pulaski Technical College, and I understand its content. I also understand the rules for the class, and I will follow and abide by these rules, including those relating to attendance, assignments, grading criteria, plagiarism, and behavior.

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Semester

________________________________________
Date

________________________________________
Print name

________________________________________
Signature

________________________________________
UA-UA-PTC Email address

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Telephone