**Instructor Information**

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

<table>
<thead>
<tr>
<th>Hours</th>
<th>Mon</th>
<th>Tues</th>
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</table>

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 Physical Science (PHYS1401-02) 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**: Monday & Wednesday: 10:50 am – 12:05 pm  
  SciB 107
- **Lab**: Wednesday: 12:15 pm – 2:05 pm  
  SciB 106

Blackboard will be used for resource distribution and practice exams.

**Catalog Description**

This is a general survey course of the physical sciences designed for general education. Course topics include physics and chemistry and may also include other physical science topics. Lab is required. Prerequisite: A
score of 22 or above on the Math section of the ACT, or a score of 97 or above on the Accuplacer Elementary Algebra test, or a score of 50 or above on the COMPASS Math Placement test, or completion of all required zero (0) level mathematics coursework.

Course Materials
Required textbooks: FREE ONLINE DOWNLOAD@ OPENSTAX
Chemistry
https://cnx.org/contents/RTmuIxzM@7.150:C4ufbA5H@4/Early-Ideas-in-Atomic-Theory

Physics
https://cnx.org/contents/Ax2o07U1@9.95:HR_VN3f7@3/Introduction-to-Science-and-th
College Physics, Urone and Hinrichs,OpenStax, Rice University, Copyright 2017,ISBN -10-1-
947172-01-8

Laboratory Manual:

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

Additional Resources:
www.cstephenmurray.com


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**
The Physical Science department, consistent with the College’s mission and the Division’s objectives, encourages the success of its students in the health related fields and academic disciplines emphasizing Critical Thinking and Quantitative Literacy by the following program outcomes:

1. The student will realize the definition of the specific discipline under study.
2. The student will assign and demonstrate the use of significant figures in numbers used in calculations resulting in values and units dictated by the rules of significant figures.
3. The student will begin with measurement values and units and make unit conversions between the Metric and American systems.
4. The student will build a pictorial and mental model of the chemical elements based on their internal and external structure.
5. The student will generate the appropriate electron configuration in both neutral and charged elements for use in making compounds.
6. The student will apply the rules of naming compounds to include ionic, covalent, acids, and bases.
7. The student will utilize the attractive properties of elements and ions in the formation of both the ionic and covalent bond.
8. The student will arrange both ionic and covalent compounds and some elements in the appropriate form of a balanced chemical equation.
9. The student will apply the mole concept to the balanced chemical equation to calculate the amounts of substances that are involved during a chemical change.
10. Students will demonstrate an understanding of force and motion through the use of vectors in speed calculations and the application of Newton’s Laws to solve accelerated motion, force and momentum problems.
11. Students will realize a relationship between work, power and energy by solving problems that include the quantities of work, kinetic and potential energy
12. Students will distinguish between temperature and heat by predicting how a substance’s temperature will change as heat is added, based on the specific heat of the substance.
13. Students will demonstrate an understanding of electricity and magnetism through the application of Ohm’s Law to solve parallel and series circuits.

**Student Learning / Course Outcomes**

*ACTS*
The student will explain, describe, discuss, recognize, and/or apply knowledge and understanding of the following:

1. Scientific method
2. Measurement and error
3. Force and motion
4. Work and energy
5. Temperature and heat
6. Electricity and magnetism
7. Chemical elements and periodic trends
8. Chemical bonding and atomic structure
9. Chemical reactions and mole concept
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.
https://www.uaptc.edu/report-a-concern-complaint

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. Teachers 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. Teachers have the right to lower a student’s grade based on excessive absences.

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.

Teachers have the right to enforce UA-PTC’s administrative drop policy for days of consecutive nonattendance. Such particulars as determined by the instructor are detailed in the paragraph below.

Attendance Artifact Policy
Attendance and Participation are both required for this class and are tracked using daily signing sheets records. Agencies granting financial assistance may be notified of violations of the attendance policy by students receiving financial aid.

In an online class, eligibility for Financial Aid is based on student participation. Logging into the course does not constitute participation. For purposes of roster certification, students must complete a gradable attendance artifact.

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
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.

**Grading Policy**

Letter grades will be based on the following scale:

- 90 to 100% A
- 80 to 89% B
- 70 to 79% C
- 60 to 69% D
- 0 to 59% F

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>
</tr>
</thead>
<tbody>
<tr>
<td>Lab Experiments</td>
<td>93</td>
<td>25</td>
<td>2325</td>
</tr>
<tr>
<td>Information Literacy</td>
<td>96</td>
<td>5</td>
<td>480</td>
</tr>
<tr>
<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>
</tr>
<tr>
<td>Tests</td>
<td>85</td>
<td>25</td>
<td>2125</td>
</tr>
<tr>
<td>Final Exam</td>
<td>70</td>
<td>20</td>
<td>1400</td>
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</tbody>
</table>

**GRADE**

\[
\frac{8255}{100} = 82.55\% = B
\]

**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 Monday with the exception of Test 1, which will be given on a Wednesday. The following is an outline of the tests and the material they will cover; test dates are noted on the Calendar of Assignments:

<table>
<thead>
<tr>
<th>Description</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>Chapters 1 &amp; 2</td>
</tr>
<tr>
<td>Test 2</td>
<td>Chapters 3</td>
</tr>
<tr>
<td>Test 3</td>
<td>Chapters 4 &amp; 5</td>
</tr>
<tr>
<td>Test 4</td>
<td>Chapters 6, 7 &amp; 8</td>
</tr>
<tr>
<td>Final Exam</td>
<td>Comprehensive</td>
</tr>
</tbody>
</table>

**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 (150 points) will be comprehensive and will be given per UA-Pulaski Technical College’s “Final Exam Schedule” for Fall 2018.

B. Homework and Quizzes

Homework:

A list of homework questions are provided at the beginning of each chapter.

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:

Write a 4-page research paper based on a topic in chemistry, physics or astronomy (instructor approved). It must have four academic sources with at least one each from print, electronic and periodical media. It is due on Monday, December 03, 2018; No late turn in is accepted. The paper must be submitted to the instructor as a hard copy (stapled upper left corner.) Please write your own words throughout the paper. Plagiarism is a serious, specific violation of UA-PTC’s Academic Integrity Policy; dealt with per the Student Handbook.

Keep all quotes minimal (one sentence) and explain them in the paragraph containing them:
The guidelines for the paper are:
1. Times New Roman
2. 12-point size
3. Double-spaced

References must be listed on a separate, final 4th page of the report.

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, August 21, 2018 and the Last Day to Withdraw is Friday, November 16, 2018.

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**
Seven 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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<tbody>
<tr>
<td>0</td>
<td>8/15/18 – 8/17/18</td>
<td>Read <strong>College Physics:</strong>&lt;br&gt;1.2 Physical Quantities and Units&lt;br&gt;1.3 Accuracy, Precision, and Significant Figures&lt;br&gt;Participate in class discussion&lt;br&gt;NO LAB and HMWK-1</td>
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<tr>
<td>1</td>
<td>8/20/18 – 8/24/18</td>
<td>Read <strong>Chemistry Atoms First</strong>&lt;br&gt;2.1 Early Atomic Theory&lt;br&gt;2.2 Evolution of Atomic Theory&lt;br&gt;2.3 Atomic Structure and Symbols&lt;br&gt;Participate in class discussion and problem solving session&lt;br&gt;NO LAB and HMWK-2</td>
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<tr>
<td>2</td>
<td>8/27/18 – 8/31/18</td>
<td>Read <strong>Chemistry Atoms First</strong>&lt;br&gt;3.1 Electromagnetic Energy <em>/&quot;Line Spectra&quot; at the bottom</em></td>
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<tr>
<td>Week</td>
<td>Dates</td>
<td>Assignments and Activities</td>
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<td>---------------------------------------------------------------------------------------------</td>
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| 3    | 9/03/18 – 9/07/18 | 3.4 Electron Configuration  
|      |             | 3.6 The Periodic Table  
|      |             | Participate in class discussion and problem solving session  
|      |             | LAB: Graph Analysis  
|      |             | Read Chemistry Atoms First  
|      |             | 3.7 Molecular and Ionic Compounds  
|      |             | 4.1 Ionic Bonding  
|      |             | 4.2 Covalent Bonding  
|      |             | 4.3 Chemical Nomenclature  
|      |             | 4.4 Lewis Symbols  
|      |             | Participate in class discussion and problem solving session  
|      |             | LAB: Measurements  
|      |             | EXAM 1  
|      |             | Infor. Literacy Topic Selection Due  |
| 4    | 9/10/18 – 9/14/18 | Read College Physics:  
|      |             | 6.1 Formula Mass  
|      |             | 6.2 Determining Empirical and Molecular Formula  
|      |             | 6.3 Molarity  
|      |             | 7.1 Balancing Equations  
|      |             | Participate in class discussion, problem solving session and HMWK-3  
|      |             | LAB: ID of a Liquid  |
| 5    | 9/17/18 – 9/21/18 | Read College Physics:  
|      |             | 2.2 Vectors, Scalars, and Coordinate Systems  
|      |             | 2.3 Time, Velocity, and Speed  
|      |             | 2.4 Acceleration  
|      |             | 2.5 Motion Equations for Constant Acceleration in 1D  
|      |             | Participate in class discussion, problem solving session and HMWK-4  
|      |             | LAB: Mole Composition  |
| 6    | 9/24/18 – 9/28/18 | Read: College Physics:  
|      |             | 2.7 Falling Objects  
|      |             | 3.1 Kinematics in Two Dimensions: An Introduction  
|      |             | 3.2 Vector Addition and Subtraction: Graphical Methods  
|      |             | 3.5 Addition of Velocities  
|      |             | Participate in class discussion and problem solving session  
|      |             | LAB: Calculations  
|      |             | EXAM 2  |
| 7    | 10/01/18 – 10/05/18 | Read: College Physics:  
|      |             | 4.1 Introduction to Dynamics:  
|      |             | 4.2 Newton's First Law of Motion: Inertia  
|      |             | 4.3 Newton's Second Law of Motion:  
|      |             | 4.4 Newton's Third Law of Motion:  
|      |             | Participate in class discussion, problem solving session and HMWK-5  
|      |             | LAB: Chemical Reactions  |
| 8    | 10/08/18 – 10/12/18 | Read: College Physics:  
|      |             | 6.2 Centripetal Acceleration  
|      |             | 6.3 Centripetal Force  
|      |             | 6.5 Newton's Universal Law of Gravitation  
|      |             | Participate in class discussion, problem solving session and HMWK-6  
|      |             | LAB: Analyze Motion  |
| 9    | 10/15/18 – 10/19/18 | Read: College Physics:  
|      |             | 7.1 Work: The Scientific Definition  
|      |             | 7.2 Kinetic Energy and the Work-Energy Theorem  
|      |             | 7.3 Gravitational Potential Energy  
<p>|      |             | 7.6 Conservation of Energy  |</p>
<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Assignments</th>
</tr>
</thead>
</table>
| 10   | 10/22/18 – 10/26/18 | **7.7 Power**  
Participate in class discussion and problem solving session  
LAB: Free Fall  
EXAM 3 |
| 11   | 10/29/18 – 11/02/18 | **Read: College Physics:**  
8.1 Linear Momentum and Force  
8.2 Impulse  
8.4 Elastic Collisions in One Dimension  
8.5 Inelastic Collisions in One Dimension  
**Participate in class discussion, problem solving session and HMWK-7**  
LAB: Force Vectors Newton 2nd |
| 12   | 11/05/18 – 11/09/18 | **Read: College Physics:**  
13.1 Temperature  
13.3 The Ideal Gas Law  
14.1 Heat  
14.2 Temperature Change and Heat Capacity  
14.3 Phase Change and Latent Heat  
14.4 Heat Transfer Methods  
**Participate in class discussion, problem solving session and HMWK-8**  
LAB: Conservation of Momentum |
| 13   | 11/12/18 – 11/16/18 | **Read: College Physics:**  
18.1 Static Electricity and Charge: Conservation of Charge  
18.2 Conductors and Insulators  
18.5 Electric Field Lines: Multiple Charges  
18.3 Coulomb’s Law  
20.1 Current  
20.2 Ohm’s Law: Resistance and Simple Circuits  
**Participate in class discussion and problem solving session**  
LAB: Work Energy Power |
| 14   | 11/19/18 – 11/23/18 | **Fall Break** |
| 15   | 11/26/18 – 11/30/18 | **Problem Session**  
LAB: Circuits |
| 16   | 12/03/18 – 12/07/18 | **REVIEW FOR FINALs**  
Info. Literacy Paper Due |
| 17   | 12/10/18 – 12/14/18 | **FINALS** |

**Final Exam Schedule:** **Wednesday, December 12th, 2018; 10:30 a.m. – 12:30 p.m.**

_Disclaimer: This schedule is a guide for the semester. The instructor reserves the right to amend the schedule as necessary._
Course Agreement Form

Read, complete, and return to instructor:

I have read the course syllabus for Dr. Reniguntala’s Physical Science (Phys1401-02) 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.

Semester

Date

Print name

Signature

UA-UA-PTC Email address

Telephone