

Instructor: Kaye Truitt

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Office hours: MWF 2 – 4 pm;

Tues 9:30 – 11 am;

Thurs 2:30 – 4 pm

Appointments: tinyurl.com/TruittOffice

Tutorial: Monday 7-8:30 pm

Access all course documents at www.masteringchemistry.com course page

OBJECTIVES: Properties of Matter and the companion course, Chemical Reactions (SC367), prepare students for indepth study of chemistry at the college level, according to the Mississippi College and Career Readiness Standards:

1. Mathematical and Computational Analysis
2. Atomic Theory
3. Periodic Table
4. Bonding
5. Chemical Nomenclature
6. Chemical Reactions
7. Gas Laws
8. Solutions
9. Acids & Bases
10. Thermochemistry
11. Equilibrium

At the conclusion of this course students will be able to:

- Use scientific measurement and dimensional analysis to interpret data
- Identify subatomic structure of atoms
- Systematically name compounds and write chemical formulas
- Write and balance chemical equations; predict and classify chemical reactions
- Use stoichiometry to determine amounts of reactants and products in chemical reactions
- Determine the energy associated with chemical reactions
- Predict properties of elements and formation of compounds
- Distinguish and predict bonding of atoms and molecular shapes

TEXTBOOK: Chemistry: The Central Science, 2012

Week 1–3 Unit 1: Matter & Measurement (Ch 1 & 2)

Week 4–6 Unit 2: Stoichiometry (Ch 3)

Week 7–8 Unit 3: Chemical Reactions (Ch 4)

Element Project – due Thursday, October 20, 2016

Week 9–11 Unit 4: Thermochemistry (Ch 5)

Week 12–14 Unit 5: Periodic Table (Ch 6 & 7)

Week 15–16 Unit 6: Bonding & Geometry (Ch 8 & 9)

Week 17 Review

Week 18 EXAMS

FIRST SEMESTER EXAMS December 15-19, 2017

Please note: Contents and schedule may change as needed; students will be notified in class of any changes.

ASSIGNMENTS:

Homework: 10 points daily grade (completed online through Mastering Chemistry program)
NOTE: Calculations for HW must be turned in at the *beginning* of class to receive full credit!

Quizzes: 20 points (announced or unannounced; on reading and calculations)

Unit tests: 100 points (announced at least one week in advance)
NOTE: When problem solving, all work (including units) must be clearly shown in order to receive full credit on homework, quizzes and tests.

EXPECTATIONS:

1. **READ** assignments before class; **CALCULATORS REQUIRED** every day; **NO LAPTOPS** in class.
2. **NO HOMEWORK IS ACCEPTED LATE.** For lab reports, late penalties will be 10% same day (4 pm) 25% for one day, 50% for 2-5 days, NC for > 5 days. See student handbook policies regarding make-up work for absences.
3. **APPROPRIATE DRESS FOR LAB** (lab coat, long pants, shoes/socks that cover feet). Students not dressed appropriately for lab work will be sent to change. 10 point penalty applied.
4. **Office hours** must be scheduled using Google calendar. Refer to course web page or use www.tinyurl.com/TruittOffice

ASSESSMENT: (Element Project counts as a test grade)

<u>Nine Weeks Average</u>		<u>Semester Average</u>	
Unit tests	50%	Nine weeks average	40% (x2)
Lab work	25%	Semester exam	20%
Quizzes	15%		
Homework	10%		

SUPPLIES:

- Notebook (loose leaf recommended)
- Scientific calculator
- Other supplies for activities and projects will be announced at least 1 week in advance.

LABORATORY WORK:

Safety guidelines and training for safety procedures are provided. Consequences of violating safety rules are clearly stated. Lab dress includes lab coat, long pants, socks and/or shoes that cover feet. Goggles will be worn over the eyes every day, and gloves will be provided as needed. Repeated safety violations may result in expulsion from lab period and a lab grade of 0.

ACADEMIC HONESTY:

Academic honesty is expected from every student. Students should never claim as his/her own work any work or knowledge from another person.

DO NOT:

- Copy another student's lab report, homework or any other assignment. Lab partners' data should be the same, but summary and answers to questions SHOULD NOT be the same.
- **COPY/PASTE from any website** (even if site is cited, this is still plagiarism!)
- Use notes or another person's answers on a test.

Violations of academic honesty policy will be referred to the Director of Academic Affairs.