

Chemistry 065 – Introductory General Chemistry  
Lecture T 3:30 pm – 6:40 pm Room NEA-226224

**Instructor:** Dr. Arias

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Office Hours: TTh 6:40 pm–7:40 pm

T 2:30 pm–3:30 pm

**Lab Instructors:**~~T 11:10–2:00 pm PH101 (0462) Arias~~~~T 11:10–2:00 pm PH102 (0463) Toeque~~

Th 3:30–6:40 pm PH 101 (3373) Kantz

Th 3:30–6:40 pm PH 102 (3374) Massoudip.

**Textbooks and Supplies:**Corwin, “Introductory Chemistry,” 5<sup>th</sup> edition.Corwin, “Laboratory Manual”, 5<sup>th</sup> edition.

Laboratory Notebook (with duplicate sheets) – (Optional)\*

Laboratory safety glasses/goggles

Scientific Calculator (non-programable)

USB Flash Drive (optional)

**Prerequisites:** Satisfactory completion (C or better) of Math 123C or the equivalent or concurrent enrollment in Math 123C.

**Course Description:** This course is a 4 unit course transferable to both the UC and CSU systems. The topics covered will include the following: measurements, matter, energy, atomic theory, periodicity, nomenclature, chemical reactions, stoichiometry, gas laws, thermochemistry, molecular bonding, solutions, acids and bases, redox reactions, nuclear chemistry.

<b>Grading:</b>	Homework	50 points	<b>Scale:</b>	A	90 – 100%
	Laboratory	200 points		B	80 – 89%
	Quizzes	50 points		C	70 – 79%
	Exams	300 points		D	60 – 69%
	<u>Final</u>	<u>200 points</u>		F	0 – 59%
	Total	800 points			

**Homework:** 10 homework assignments will be collected during the semester. Each homework assignment is worth 5 points. Late homework will be accepted for half credit. Solutions to the homework will be posted after the due date for each assignment.

**Quizzes:** There will be 7 quizzes during the semester. The lowest 2 scores will be dropped. No make up quizzes will be given.

**Exams:** There will be 3 examinations given during the semester. Each exam will be worth 100 points. No make up exams will be given unless you have proof of a medical emergency.

**Final:** The final examination is worth 200 points and is cumulative. You must take the final examination to receive credit for the class. December 15, 3:15 – 5:15 pm.

**Course Content:**

Chapter 2. Scientific Measurements.	Chapter 10. Stoichiometry.
Chapter 3. The Metric System.	Chapter 11. Gases.
Chapter 4. Matter and Energy.	Chapter 12. Chemical Bonding.
Chapter 5. Models of the Atom.	Chapter 13. Liquids and solids.
Chapter 6. The Periodic Table.	Chapter 14. Solutions.
Chapter 7. Nomenclature.	Chapter 15. Acids and Bases.
Chapter 8. Chemical Reactions.	Chapter 17. Redox Reactions.
Chapter 9. The Mole Concept.	Chapter 18. Nuclear Chemistry

**Academic Dishonesty:** Cheating and or plagiarism will result in an F for the assignment and may result in an F grade for the course. The dishonest student may then be reported to the administration for further disciplinary action. All forms of communication with others are considered cheating during an exam. Cell phones, text messengers, and programmable calculators may not be used during an exam.

**Attendance Policy:** It is the responsibility of the student to attend lectures and labs. Failure to attend lecture may result in zeros on homework, quizzes, and exams due on those days. Failure to report to lab may result in no credit for the course. Attendance is worth 5 points per day for each lab session. Showing up late or leaving before the experiment is complete will result in a loss of points.

**Laboratory:** In order to pass the class, you must complete all laboratory assignments with a satisfactory score. Failure to pass the laboratory with a C or better will result in an F for the class. Bring safety glasses/ goggles and closed toed shoes to every lab section.

If using a laboratory notebook (with duplicate pages) bring this notebook to each lab session. Leave the first few pages for a table of contents. The table should include the title of the experiment and the page number of the experiment. The lab notebook will include the pre-lab, raw data and post-laboratory assignment. One copy of the pre-lab assignment will be turned in to the lab instructor at the end of lab for each new experiment. A copy of the raw data and post-lab calculations will also be collected at the conclusion of each experiment. If you are not using a laboratory notebook, then complete the pre-lab and post-lab assignments in the manual.

**Pre-lab:** The pre-lab assignment should be completed before each new lab. The pre-lab should also contain your name, date and section number. The pre-lab will be signed at the beginning of each new lab.

**Lab Data:** At the conclusion of each lab period, the instructor will sign the raw data collected that day. Unsigned data will not receive credit. Data turned in on lab notebook paper should include your name, the title of the experiment and the date. The proper units for all measurements should also be included.

**Lab Reports** – Laboratory reports must be done using a word processor (Word). All graphs must be done with an appropriate graphing program (Excel). See lab schedule.