

INSTITUTE FOR SCIENCE AND MATHEMATICS

Chemistry, 2022/2023

Instructor: Dr. M.E. Donaldson

Syllabus

Fall Semester, 2022

1. Scientific Method
2. Unit Conversion
3. Atoms
4. Electrons
5. Periodic Law
6. Properties of Matter
7. Gases
8. Liquids
9. Solids
10. Chemical Bonding

Spring Semester, 2023

1. Chemical Compounds
2. Chemical Reactions
3. Stoichiometry
4. Molecules & Solutions
5. Thermochemistry
6. Redox
7. Acids/Bases
8. Organic Chemistry.

Grading*

Homework.....50%

- Typed lecture notes (due each lab meeting)
- Worksheets and study questions
- Lab write-ups

Participation10%

- Class discussions
- Lab exercises

Tests/quizzes40%

Text: Chemistry. S. Robinson (Ed). CK-12 Foundation, 2011. Electronic Text available at:

www.scimathinstitute.org/texts/chemistry.pdf

Cost: \$395/semester

* Policies regarding work.

- 1) Work is to be handed in at the beginning of the class period. Work turned in after this is considered late. Late-work will be accepted up to the beginning of the next class period for half credit. After that the work is considered a zero.
- 2) Extra credit will only be considered for those who hand in their regular work.
- 3) Makeup work must be completed within one week upon return from an absence.