

**INSTITUTE FOR SCIENCE AND MATHEMATICS**  
**Chemistry, Fall 2011/Spring 2012**  
**Instructor: Dr. M.E. Donaldson**

**Syllabus**

**Fall Semester, 2011**

**Spring Semester, 2012**

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

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

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**Grading\***

**Homework ..... 50%**

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

**Participation ..... 10%**

- Class discussions
- Lab exercises

**Tests/quizzes ..... 40%**

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**Text:** Chemistry. S. Robinson (Ed). CK-12 Foundation, 2011. Electronic Text available at:  
[www.scimathinstitute.org/texts/chemistry.pdf](http://www.scimathinstitute.org/texts/chemistry.pdf)

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**Cost** \$190/semester; \$380/full year

\* 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) Make-up work must be completed within one week upon return from an absence.