

Honors 203/Chemistry 110
Final Exam Information

Final Exam Date and Location

- Thursday, May 19th, 8:00 am in SC 003
- Other possible exam times: Tuesday 2pm (SC 236), Wednesday 1pm (SC 236), Friday 8am (SC 003), Friday 1pm (SC 236).
- Also: Optional review session, Monday May 16th, 10:30am, SC 209
- **Office hours before final:** Monday, May 16th, 2-4pm, Wednesday, May 18th, 10:30a.m.- noon. Also by appointment.

Exam Format (2 parts, 200 points total):

1. 55 multiple choice questions, 2 points each, 110 points total possible. (graded out of 40 max, 80 points - you may possibly acquire extra points here to supplement other sections)
2. 20 calculation, multiple choice or short answer questions, 5 points each, 100 points total. These will be like exam questions. One essay question describing the chemistry of an environmental issue of your choice (20 pts). (120 points possible).

▷ Suggested calculation/short answer question types to study (for part 2) are given below. Other question types may be included as well, however I view those below as some of the most important types. Some of these may be more or less emphasized due to coverage on the multiple choice portion of the test.

- atoms, elements and #'s of protons, neutrons and electrons
- balancing chemical equations, including combustion equations
- relationship between energy, wavelength and frequency
- calculation of molecular weights
- grams to moles, moles to grams
- electron dot structures for simple molecules
- shapes of molecules
- geometric isomers
- calculation of heats of reactions from bond strengths
- ions formed by elements, aqueous ions formed when ionic compounds are dissolved in water
- pH from H^+ concentration, H^+ concentration from OH^- concentration and vice-versa
- alpha and beta decay
- nuclear reactions and nuclear isotopes
- How coal and nuclear power plants produce electricity
- Nuclear fission
- Major features of the three fossil fuels
- Necessary conditions for photochemical smog
- Simple Rowland/Molina mechanism for ozone depletion by CFC's
- Greenhouse gases