



**Exam Date:** Tuesday Dec 13, 2016, 7-10 PM.

Please plan to arrive 15 min early. You will not be allowed to begin the exam after 7:30 PM.

**Location:**

| If you are in lecture: | You will write in room: |
|------------------------|-------------------------|
| L01                    | MFH 162                 |
| L02                    | KN AUX                  |

Seating is limited in each room – *be sure you arrive to the correct exam room!*

Seating in gyms is assigned by the registrar. For more information, please see

[http://www.ucalgary.ca/registrar/exams/exam\\_day](http://www.ucalgary.ca/registrar/exams/exam_day)

**Bring with you:**

- Pencils and eraser for filling in *Optical Scoring Sheet* and for your rough work on MC
- Pencil is encouraged for the Written answer section of the Final Exam!
- Schulich-approved, non-programmable calculator
- Ruler
- Your Student ID card
- Water bottle and a watch (if desired)

**Do not bring:**

- Valuables, backpacks or bags, notes, textbook, etc. *Backpacks are not allowed in the gym during exams.*
- Based on academic honesty policies at the UofC, **your cell phone cannot be on your person while you write the exam.**
  - “Academic Integrity Bags” will be provided to hold small personal items at your seat during the exam (wallet, phone, keys, etc). Items in these bags cannot be accessed during the exam. These bags are large enough to hold your wallet and a few papers, but *not* large enough for a backpack. Personal items not in the integrity bag cannot be kept at your seat.

**Exam Length:** 3 hours

**Grade Value:** 40% of your final grade

## Topics & chapters covered:

All topics and review material as described in the *Course Syllabus*.

See the *Learning Outcomes* document on D2L for a complete listing of course objectives. Also included are the principles behind the 5 laboratory assignments, and the associated calculations. See lab manual for details.

**High School Review:** Including chapters 1-3, 4.1-4.4, 16.1-16.2 & 19.1. See the *CHEM 209 Preparation* document on D2L for more details. See the Course Syllabus for suggested review problems. [Tutorial 1]

**BIG IDEA: HOW FAST ARE REACTIONS? [TUTORIAL 2A, 2B]**

**BIG IDEA: HOW FAR DOES A REACTION GO? [TUTORIAL 3A, 3B, 4A, 4B]**

**BIG IDEA: WHAT MAKES A BOND? [TUTORIAL 5A, 5B]**

## General Breakdown

- Approximately 50% of grades from multiple choice (2 points each)
- Approximately 50% of grades from written answer
  
- Approximately 30% of grades from “How Fast”, review, and topics tested on the midterm
- Approximately 70% of grades from “How Far”, “What makes a bond”, and post-midterm topics.