Examinations

Please check this page for descriptions and updates about examinations (midterms and the final) in CH141. Information will appear at least one week before the exam.

Final Exam

Your final exam will be at 9 AM on Thursday, December 14th in Keyes 105. This exam will be in two parts, both cumulative. All material presented in lecture, assigned reading, and laboratory is 'fair game' for your final exam. You must bring the calculator specified on the course syllabus.

The first part will be a multiple-choice exam authored by the American Chemical Society. It has 70 questions and is strictly timed at 110 minutes. **I f you have a diagnosed learning difference, please communicate with your professor by the end of the day on Tuesday, December 12th such that appropriate accommodations can be made.** This exam comes with a periodic table and some constants. While there are no equations provided (and we can't provide any supplementary material), we don't expect you'll need to know much beyond those that are used so often, they are likely already committed to memory. There are review booklets on reserve in the Science Library, however, the material presented in these booklets to do not really correspond to the material on the actual exam. Use these booklets only to get some exposure to the type of multiple-choice questions you might expect to see. As always, your principle resources for exam preparation should be your lecture notes, textbook, and laboratory handouts.

The second part will be authored by Profs. Rice and McKinney. It will be 4-6 problems similar in format to the last two pages of one of your midterm examinations. Here are the Equations and Constants you will be provided with on the exam. While this exam is also cumulative, it is likely to be weighted toward material presented since the third midterm.

There will be two review sessions during Reading Period, both in Keyes 105: Monday, 12/11, from 4-5 PM & Tuesday, 12/12, from 5-6 PM.

Midterm Exam 3 - Exam 3 Key (8b should be: [Kr] $4d^1$)

The third midterm examination will be at 5 PM Thursday, November 30th in Keyes 105. The exam will cover the reading (chapters 6, 7, 8, and 9:1-6), the lecture that corresponds to these chapters (approximately through Monday, 11/20), and laboratory (through the week of 11/13). Expect questions to come from all three sources. You will be provided with a periodic table. You must bring the calculator specified by the Colby bookstore as required for this course.

A practice exam is attached here. This is an exam given from a previous semester in which the testable material didn't match up perfectly with ours. The questions that are not applicable to the material covered in our exam are shaded in yellow. The key is now posted here.

Here are the equations and constants you will be provided with on the exam.

Midterm Exam 2 – Exam 2 Key

The second midterm examination will be at 5 PM on Wednesday, November 1st in Keyes 105. The exam will cover the reading (chapters 4, 5:1-7, 10:1-6, and 20:1-2), the lecture that corresponds to these chapters (approximately through Wednesday, 10/25), and laboratory (through the week of 10/23). Expect questions to come from all three sources. You will be provided with a periodic table. You must bring the calculator specified by the Colby bookstore as required for this course.

Regarding what you “need to know”, everything presented in the reading, lecture, or laboratory is technically fair game for the exam. However, you do not need to memorize the 'activity' series. You do need to know the solubility rules and be able to recognize strong/weak acids and bases. If you have any other questions that begin with, “Do we need to know…” please post them to the CH141 Message Board.

A practice exam is attached here. The key is here. Here are the equations/constants you will see on your exam.

Midterm Exam 1 – Exam 1 Key

The first midterm examination will be at 5 PM on Tuesday, October 3rd in Keyes 105. The exam will cover the reading (chapters 1-3), the lecture

that corresponds to these chapters (approximately through Monday, 9/25), and laboratory (through the week of 9/25). Expect questions to come from all three sources. You will be provided with a periodic table. You must bring the calculator specified by the Colby bookstore as required for this course.

Regarding what you “need to know”, everything presented in the reading, lecture, or laboratory is technically fair game for the exam. However, with respect to unit conversions, we won’t expect you to have memorized English/metric conversions (e.g. yards to meters, gallons to liters, etc.), but you certainly should know the conversions associated with metric prefixes (milli, centi, kilo, mega, etc.). With respect to nomenclature, if the compound/molecule was presented in the textbook, lecture, or lab, you must know it by name and formula. Here is a helpful (but by no means comprehensive) list of ion nomenclature. You may also be expected to apply the ‘rules’ for naming compounds such as oxyanions and acids that weren’t directly presented in lecture/book/lab. If you have any other questions that begin with, “Do we need to know…” please post them to the C H141 Message Board.

A practice exam is attached here — practice exam key — video of Prof. Rice completing the practice exam

Please remember that practice exams are not intended to be your principal resource for exam preparation. Rather, they are useful as additional practice and insight as to possible exam format.