

CHEMISTRY 141 FALL SEMESTER 2000

CEM 141 web site <http://poohbah.cem.msu.edu/courses/cem141/index.html>

GENERAL INFORMATION

This course serves as a first course in General Chemistry and meets the requirements of a variety of degree programs. The course is not intended for students pursuing degrees in chemistry, biochemistry, or chemical engineering. Students must achieve a passing grade (≥ 1.0) in CEM 141 in order to progress to CEM 142 or 143.

Lectures

There are 5 lecture sections, all meet in Room 138 Chemistry:

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| 9:10am MWF (recitation sections 1-13) | Paul Hunter | Room 129 Chemistry; e-mail: hunter@msu.edu Office Hours Tuesday, 2-4pm |
| 11:30am MWF (recitation sections 14-26) | Scott Goldie | Room 117B Chemistry; e-mail: goldie@photon.cem.msu.edu Office Hours Monday and Wednesday, 12:30-1:30pm |
| 3:00 pm MWF (recitation sections 27-39) | Paul Hunter | |
| 4:10 pm MWF (Recitation sections 40-52) | Scott Goldie | |
| 6:00 pm MW only (Recitation sections 53-65) | Andrew Ichimura | Room 117A Chemistry; email: ichimura@msu.edu Office Hours Wednesday, 2:30-4:30 |

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| <i>General Chemistry Coordinator</i> | Steve Poulos | Room 118 Chemistry; tel 5-9715 ext 332 email: poulios@msu.edu |
| <i>General Chemistry Secretary</i> | Wendy Tsuji | Room 119 Chemistry; tel 5-9715 ext 335 email: tsuji@cem.msu.edu |
| <i>Lecture Demonstrator</i> | Sheldon Knoespel | Room 134 Chemistry; tel 5-9715 ext 329 email: knoespel@cem.msu.edu |

Recitation

Recitations present an opportunity for you to ask questions and discuss the course material. Strive to participate actively. Recitations will start on Tuesday September 5th, and a schedule of the recitations and the names of the instructors will be distributed separately. In your recitation section you will form small groups and work cooperatively on problems on the course material. You will also be able to ask your instructor questions. You must attend your own recitation section in order to get credit for your recitation work.

Textbook

The text for CEM 141 is **Chemistry & Chemical Reactivity**, by Kotz & Treichel (4th Edition, Saunders, 1998). It is required that you have access to the book for assigned reading and problems; however, you do not have to purchase an individual copy, you may share a book with fellow students. The study guide accompanying the Kotz & Treichel text is recommended. The text and study guide may be purchased new as a package for \$99.55. The reading assignments are listed on the accompanying syllabus. You are advised to read any text assignment prior to the appropriate lecture.

Problem Sets (CAPA⁸ Homework)

Eleven problem sets will be issued this term. The problem sets will be administered by the CAPA⁸ system (Computer-Assisted Personalized Approach) C this will be explained later. You are encouraged to work together in solving these problems but you are responsible for submitting your own set of answers. Always make a note of your CAPA⁸ID (shown at the top of the problem set) in case you lose the paper. Your CAPA⁸ID changes for each set. The problem sets will be distributed at lecture on Wednesday or Friday (*know your recitation section number!*) and will be due the Friday of the following week at 8:00 am. Dates are noted on the accompanying schedule. Each problem set will consist of 10 questions. You are strongly encouraged to do these problems C not only are they good practice for the examinations *but they will contribute 22% to your final grade* in the course. Do not leave it until the last minute to get help with your CAPA⁸ problem sets! You are allowed up to 10 tries on each question, unless otherwise noted.

Laboratory

The laboratory associated with this class is CEM 161 but concurrent enrollment is *not* required (CEM 161 requires separate enrollment). The CEM 161 labs start on Tuesday September 5th.

Lecture Notes

Written lecture notes (\$6.25) are available at the Student Bookstore and Ned's Bookstore on East Grand River Avenue. These notes are provided for you convenience during lecture and are not intended as a substitute for your taking your own notes nor are they a substitute for your attendance at lecture.

Examinations

There will be three one-hour examinations during the course at 6:30 pm on Monday evenings (approximately one each month on Sept. 18th, Oct. 16th, and Nov 20th). There will be a final examination at the end of the course on Monday Dec. 11th at 7:45am. Dates are also noted on the accompanying calendar and syllabus. Rooms will be announced later. Bring a picture ID, a pencil, and a non-programmable calculator (if you wish) to the examinations. No books, notes or graphing/programmable calculators are allowed at examinations.

Grades

The grade you receive in this course will be calculated from the total number of points that you earn:

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|--------|-----|------------|-----|--------------------------------|-----|
| Exam 1 | 150 | Exam 3 | 150 | CAPA ⁸ Problem sets | 220 |
| Exam 2 | 150 | Final Exam | 250 | Work in recitation | 80 |

Absence from an examination because of illness must be substantiated by a physician. Absence due to extenuating circumstances must be pre-approved. Scores will then be prorated accordingly. There will be no make-ups for exams 1, 2, or 3 other than the scheduled alternate exam at 6:45 am the following morning. You must take the final exam in order to achieve a passing grade. The grade scale shown below is fixed, guaranteed, and will not be curved. You do not compete against one another and are encouraged to study together as much as possible. It is obviously *to your advantage* to achieve high scores on the CAPA⁸ problem sets.

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|-------|-----|-------|-----|-------|-----|-------|-----|
| ≥ 800 | 4.0 | ≥ 680 | 3.0 | ≥ 560 | 2.0 | ≥ 440 | 1.0 |
| ≥ 740 | 3.5 | ≥ 620 | 2.5 | ≥ 500 | 1.5 | <440 | 0.0 |

General Chemistry Office

General information and assistance is available at the General Chemistry Office (M-F 8-12 noon and 1-5 pm telephone 5-9715 ext 322).

Help Room

Help with the chemistry in CEM 141 is available from the instructors in the Help Room (Room 130 Chemistry). The schedule will be distributed later. You are encouraged to use the Help Room as much as you like.

Tutorial Assistance in Chemistry (TAC)

Tutorial Assistance in CEM 141 is available for students sponsored by the MSU Office of Supportive Services. Pick up a schedule from Room 119 if you are interested in enrolling in these classes. If space remains available in this program after sponsored students have been accommodated, then other students are welcome to enroll.

Microcomputer Learning Laboratory

Macintosh software to supplement instruction in general chemistry is available in the Microcomputer Laboratory in Room 120 and at other sites on campus. This software will be demonstrated in lecture and you are encouraged to use it as much as you wish.