# 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 most 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 3 lecture sections, all meet in Room 138 Chemistry. Attendance at the lecture for which you are enrolled is expected. You are advised to read any text assignments before the corresponding lecture. No appointment is necessary to see your instructor during scheduled office hours.

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| 3:00 pm MWF<br>(Recitation sections 01-13) | Scott Goldie | Room 117B Chemistry; *email: goldie@photon.cem.msu.edu*<br>Office hours: 9-10am MW |
| 4:10 pm MWF<br>(Recitation sections 14-26) | Scott Goldie | |
| 6:00 pm MW *only*<br>(Recitation sections 27-35) | Paul Hunter | Room 129 Chemistry; *email: hunter@msu.edu*<br>Office hours: 2:00 - 4:00 pm Tuesdays |

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| *General Chemistry Coordinator* | Steve Poulios | Room 118 Chemistry; tel 5-9715 ext 322<br>*email: poulioss@.msu.edu* |
| *General Chemistry Secretary* | Wendy Tsuji | Room 119 Chemistry; tel 5-9715 ext 335<br>*email: tsuji@cem.msu.edu* |
| *Lecture Demonstrator* | Sheldon Knoespel | Room 134 Chemistry; tel 5-9715 ext 329<br>*email: knoespel@cem.msu.edu* |
| *CEM 141 web site* | *http://www.cem.msu.edu* then go to *Course Information,* then *General Chemistry,* and then *CEM 141* | |

### Recitation

Recitations present an opportunity for you to ask questions and discuss the course material. Strive to participate actively. Recitations will start on Tuesday January 16th 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). The same book is used in CEM 142. 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 $99.75—this price is less than the cost of the text alone and less than the total cost of *used* copies of the text ($87) and study guide ($31.50). The reading assignments are listed on the accompanying syllabus. You are advised to read any text assignment prior to the appropriate lecture.

### Problem Sets (CAPA© Homework)

Eleven problem sets will be issued this term. The problem sets will be administered by the CAPA© system (**C**omputer-**A**ssisted **P**ersonalized **A**pproach)—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 CAPA©ID (shown at the top of the problem set) in case you lose the paper. Your CAPA©ID 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 — not only are they good practice for the examinations *but they will contribute 22% to your final grade* in the course. Don't leave it until the last minute to get help with your CAPA© 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 January 16th. For your first lab class you should have a pair of safety goggles and the CEM 161 lab manual (currently available at all bookstores *except* the MSU bookstore).

## Lecture Notes

Written lecture notes ($6.25) are available at the Student Book Store, the College Store, and Ned's Bookstore. They are not available at the MSU bookstore. These notes are provided for your 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 Jan 29th, Feb 26th, and Apr 9th). There will be a comprehensive final examination at the end of the course on Tuesday May 1st. 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 to the examinations. No books, notes, computers, or 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© 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 circumstance 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 CAPA© 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 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.