# SYLLABUS

CHEM 101 Spring 2003

Instructor: J. B. Natowitz (natowitz@comp.tamu.edu)

Office Hours: Tues, Thurs 9:30am-11:30am – Room 207, Cyclotron Institute

Lecture: M/W/F 10:20 AM-11:10 AM Heldenfels Room 200

*Laboratory Sections 529,530,531,534,535,537,538: Meet once a week in Labs on the 4th floor of Heldenfels*

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**Required Materials:**

*(1)* "General Chemistry", Whitten, Davis and Peck, 6th Edition, 2000

*(2)* Calculator suitable for use on lecture exams

*(3)* "Experiences in Chemistry - 1", by L. Peck and V.M. Williamson, Hayden-McNeil Publishers, 2001.

*(4)* The lab notebook (8 1/2" x 11", perforated alternating white and yellow pages)

*(5)* Approved eye protection

*(6)* FIVE standard (8 1/2" x 11") gray scanning sheets (Form No. 0-101607-TAMU) from the bookstore

*(7)* "Access Code for entry into OWL (Online Web Learning)" Harcourt College Publishers. *All students are required to register for OWL and complete the assigned exercises.*

Calculators may not have multi-line screen or extensive memory. University and Departmental Regulations require that everyone in the laboratory wear splash-proof, chemical goggles during any experimentation or anytime anyone moves chemicals or equipment. Eyeglasses or goggles with side shields are not acceptable. *Failure to wear goggles will result in expulsion from the current laboratory period.* Unmarked gray scanning sheets should be turned in to Room 123 Heldenfels during the Information Desk hours.

**Optional Materials:**

*(1)* "Student Solutions Manual, General Chemistry," 5th Edition, Y. Tang and W. Keeney-Kennicutt, 2000

*(2)* "ChemSkill Builder", version 6 (or newer), James D. Spain

*(3)* Laboratory apron or a nonflammable lab coat. *An apron or lab coat will be required in laboratory if your shorts or skirt do not cover your knees.*

**General Information:** General Chemistry courses at the college level are traditionally surveys of chemical science, which is a large and ever expanding body of knowledge. This puts pressures on both instructor and students to compress the study of considerable amount of material into a relatively short period of time.

*Good study is an active process*. Simply "reading," highlighting, and "looking over" study materials is insufficient and is a waste of time. Study should be a daily activity. Lecture attendance and good study habits, which will include *one hour and fifteen minutes each day* on your CHEM 101 materials, should be sufficient to keep one in good standing and keep one from any "all-nighters" before examinations. *Do not fall behind*--it will become overwhelming to attempt to catch up. Poor study habits will mean that one must spend even more time to accomplish the same objective that one would acquire with proper study techniques.

The exam and quiz questions will be based upon material from lecture notes, handouts, and assigned homework problems/ questions. The assigned chapters in the text, which should be read prior to class, will serve to supplement your lecture notes. Part of active study requires rewriting and/or reorganizing one's lecture notes, adding questions concerning lecture material and points not comprehended or completely understood during lecture. Your lecture notes and handouts are your primary source of information as you study for quizzes and exams.

**Office Hours**: My formal office hours will be in room 207 Cyclotron Institute, Tues and Thurs 9:30am to 11:30am. If you need to see me at a different time you are welcome but it is useful to phone to make sure I am available (845-1411)

**Information Office and Help Desk:** The Information Office is at Room 123 HELD. Office Hours are Monday - Friday 9:30-12:30 P.M. and Monday - Thursday 1:30-4:30 P.M. Questions can be answered there pertaining to your course records, homework, etc. This is also where you turn in your scantron sheets. A Help Desk will also be staffed in Room 123 during these same hours. Check outside of Room 123 for changes in the schedule.

**Bulletin Boards:** Special announcements (schedule changes, etc.) will be posted on the official bulletin boards (Rooms 200, 413, and 117).

You will also find useful information on the World Wide Web http://www.chem.tamu.edu/class/fyp/chem101.htm. It provides you with the ability to check your grades confidentially on the web. To do so, go our homepage under the First Year Chemistry Program. Input your password given in class (it is case sensitive) and click on "Look up my grades." It should work
The wb page includes many links to useful information and supplementary materials. It also includes questions from previous exams. As I have not recently taught CHEM 101, these questions are those prepared by other 101 instructors.

**Lecture Reading Assignments:** Lectures are designed to help you develop an understanding of the material being emphasized. To get the most out of lecture, one should always read the appropriate sections before they are discussed in class. The reading assignments are shown in the calendar that appears later in this handout.

**Lecture Attendance:** Students are required to attend the lectures in their registered section. Attendance will be checked periodically.

**Pop Quizzes in Lecture:** Pop quizzes will be given in lecture during the semester. Your five best scores will be counted. Your score on the quizzes that are counted will contribute a maximum of 150 points to your possible lecture total ( 16.7%).

**Exams:** There will be four Lecture Exams given (tentatively) on the days indicated in the attached calendar. These exams are in addition to the POP QUIZZES and a FINAL EXAM and may have a combination of multiple-choice questions that will be machine-graded and non-multiple choice questions that will be hand-graded. Lab/recitation quizzes are described later.

*(A) Lecture Exams:* These are 50-minute exams given during the regular lecture times. Each exam is worth 100 points. Exam 1 is scheduled to cover material up to the scheduled date. Exams 2, 3, and 4 will focus on new material covered after the previous exam; however, *each exam is cumulative*, *i.e.*, one or more review questions may also be included. You must bring your student ID to each exam.

*(B) Final Lecture Exam:* The Final Exam in the lecture portion of this course will be a 110 minute, 250 point exam that will test on any materials covered during the semester. The scheduled time for the Final Exam is Tuesday, May 6 from 8:00 am to 10:00 am in

Room 200 Heldenfels. You must bring your student ID to the Final Exam.
*(C) Make-up Exams:* For students who have excused absences and who also notify me (the instructor) within one week of the missed exam, a make-up test will be arranged. Notification can be a telephone call to the FYP Office or a short e-mail message to me. Written documentation may be required. The make-up exams will be at least as difficult as the regular exams.

**Lecture Exam Administration:**
*(A)* Check your exam seating assignment one day in advance. Each exam will have a different seating assignment. Seating assignments will be posted on the bulletin boards outside of Room 100 at least 24 hours in advance of the exam. A request for a left-handed seat should be submitted to Room 123 five days before the first exam.
*(B)* Prior to the first lecture exam, purchase five (5) standard (8 1/2" x 11") gray scantron sheets (Form No. 0-101607-TAMU) from the bookstore and turn them in at the First Year Chemistry Information Office (Room 123 HELD) during posted hours. Do not write anything on them before you turn them in at Room 123. Samples of the correct scantron sheet are displayed on the bulletin boards.
*(C)* Arrive at the lecture exam on time. Cheating or bringing in material with intent to cheat will result in a zero for the exam or a more severe penalty. Do not bring unauthorized materials into the exam.
*(D)* Bring at least two #2 pencils, an eraser, and your TAMU ID card to the lecture exam. Pencil sharpeners and calculators (with certain restrictions - see (E) below) may also be brought to the exam. There must be no "sharing" of calculators during an exam. Any other questionable items must be out of sight in a briefcase, pack, purse, or sack, and stored under your desk or, if not in a closed container, you must place them at the front or back of the room before you take your assigned seat. *No one will be allowed to take the exam without their TAMU ID.*
*(E)* Students can NOT use calculators that are programmable or have alphanumeric capabilities. Some of the acceptable and unacceptable calculators are listed on the bulletin boards. Any student attempting to use an unacceptable calculator will receive a zero for the exam.
*(F)* Follow the directions given to you as you enter the exam room. Do not write on the envelope or on the back of the scantron sheet. Failure to follow these directions may result in a withheld or zero grade. Note: Only answers recorded on the standard gray scantron sheet or other designated sheets will be graded.
*(G)* During the exam, keep all work covered as much as possible. Talking or looking around the room will result in a withheld grade for the exam.
*(H)* Work carefully, but you must finish in the allotted time; exams handed in late will not be accepted. Please remain seated quietly until asked to leave.

**Review/Q&A Schedule:** Before each exam there will be a Q&A Session scheduled. These will be will be in Room 200 of Heldenfels if possible, but this may need to be changed. Additional reviews may be scheduled if appropriate.

**Final Lecture Exam Schedule:** Our final lecture exam is scheduled for Tuesday, May 6 from 8:00 AM - !0:00 AM in Room 200 Heldenfels. Please do not expect to take the final exam at any time other than its scheduled time. *No one will be allowed to take the Final Exam without a valid TAMU ID.*

**Grade Calculation:**
Grades will be calculated on the basis of total points earned.
*LECTURE POINTS POSSIBLE:*

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| Owl Homework | 100 |
| Quizzes (best ~5 of ~6) | 150 |
| Exams (4 @ 100 points each) | 400 |
| Comprehensive Final | 250 |
| Total of Lecture Points | 900 |

*LABORATORY POINTS POSSIBLE:*
(Adjusted to make lab average of each section 80 to 86%.)

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| Reports (8 reports x 20 points each) | 160 |
| 2 CPR's (Calibrated Peer Review) | 40 |
| Quizzes (4 quizzes x 15 points each) | 60 |
| Final (written and practical) | 40 |
| Total of Laboratory Points | 300 |

(Total Lab points will be adjusted for the average of all sections.)

Course Point Totals = (Total of Lecture Points) + (Total of Laboratory Points after adjustment) = 900 + 300 or 1200 possible.

Likely Grades (The range of each letter grade will be assigned at the end of the semester.) The expected grade ranges will be:
1044 points (~87%) and greater = A,
1043 to 888 points (~74%) = B,
887 to 720 points (~60%) = C,
719 to 612 points (~51%) = D,
fewer than 612 points = F
These may vary slightly.

**Incomplete Grades:** Students with absences (excused or non-excused) who miss one or more exams without making up the missed exams should consult me. In particular, students who request a grade of "I" (Incomplete) and meet all university criteria for this temporary grade, must review the records, etc. with me before I will consider giving a grade of "I".

**Dishonesty:** Students are expected to be the sole source for any work submitted in their name. The utilization or submission of work of others is a violation of Texas A&M University scholastic dishonesty policies and disciplinary steps will be taken. Only authorized electronic or printed materials or equipment may be used in or near the classroom. As commonly defined, plagiarism consists of passing off as one's own the ideas, words, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research and knowledge cannot be safely communicated. If you have questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, under the section "Scholastic Dishonesty."



**Texas A&M Support Services for Students with Disabilities** (845-1637):
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, temporary (e.g. broken arm) or permanent (including a learning disability), please contact the Department of Student Life, Services for Students with Disabilities in Rm 126 of the Koldus Bldg (Hours: 8am to 5:30 pm). If you have any questions, see me.

**Important Dates:**
Jan. 16: Last day to drop a course with no record
Jan. 17: Beginning of Q drop
Jan. 17: Last day to add a class/change sections
Mar. 3: Mid-semester Grades Due in Chemistry Department
Mar. 10-14: Holiday - - Spring Break
Mar. 31: Last day to Q drop a course
Apr. 29: Course Evaluations
Apr. 29: Re-defined Day (FRIDAY CLASSES)
Apr. 30- May 1: Reading Days (No Classes)
May 6: Final Lecture Exam is from 8:00 AM - !0:00 AM in Room 200 Heldenfels