

# CHEMISTRY 101

Fall 2002

Sections 527- 538

**Lecture:** Mondays, Wednesdays & Fridays

(12:40 to 1:30 Heldenfels Room 100)

**Laboratory:** (Once a week in rooms on the 4th floor of Heldenfels)

**Instructor:** M.L. Peck      **Office:** 413 Heldenfels

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Welcome to CHEM 101! As the science that describes matter, chemistry is vital to our understanding of many fields from biology to the environment to materials science. Rapid new developments in all of these areas virtually guarantee that chemistry will become even more important in the years to come. A knowledge of chemistry is thus an important ingredient in a liberal arts education, and an essential foundation for a technical education.

Chemistry 101 and 102 are the first-year chemistry sequence in the core curriculum. Because chemistry is important to many fields, this is a very large course here at Texas A&M. Although this large enrollment does place certain limitations on us, we in the First Year Chemistry Program are committed to providing you an interesting and stimulating course. To this end, the lecture and laboratory are together in one 4-hour course. We have carefully chosen a textbook for its clarity, examples, and problems. We try to make ourselves approachable both in and outside the classroom. There will be teaching assistants available most hours of the day in Room 123 Held to answer both lab and lecture questions. My office hours are discussed below.

Sections 527 - 538 of Chem 101 is a group of sections of a much larger program. Each grouping of sections is independent of other sections led by another instructor but we strive to cover common content, etc.

Information related to these sections of Chem 101 can be found on the web. I plan to have this syllabus, sample problems, information about me, course announcements, etc., on the web. The course's web pages can be accessed through the First Year Chemistry Program's homepage ([www.chem.tamu.edu/class/fyp/fypintro.html](http://www.chem.tamu.edu/class/fyp/fypintro.html)) or by going to the TAMU Chemistry Department's homepage (<http://www.chem.tamu.edu>) then going to courses and clicking on the First Year Chemistry Program. You will be able to check your grades confidentially on the web (see instructions later in this syllabus).

I will strive to make this course a meaningful and enjoyable experience for you. Please feel free to call upon me whenever I can be of assistance. I will give review sessions before each exam and I will be available in Room 413 HELD during office hours to answer both laboratory and lecture questions.

Please let me know which of our efforts are most (or least) helpful.

## Required Materials:

- 1) "General Chemistry", Whitten, Davis and Peck, 6th Edition, 2000.
- 2) "Experiences in Chemistry - I", L. Peck and V. Williamson, 2003.
- 3) Lab notebook (8 1/2" x 11" duplicate "no carbon paper required", perforated pages).
- 4) Web Access code for entry into OWL (On-line Web-based Learning), Harcourt College Publishers.
- 5) Approved Eye Protection. University and Departmental Regulations require that splash-proof, chemical goggles be worn by everyone present any time any experimentation is being conducted or any time chemicals or equipment are being moved by anyone in the laboratory. [The Graduate Chemistry Fraternity will be at the labs the first week of lab to sell suitable goggles at \$5 (cash or checks)]. Failure to wear goggles will result in expulsion from the laboratory for the experiment involved. If you forget, you will be able to rent them at the Stockroom window for \$4 with AggieBucks or for \$10 through SIMS - so don't forget them! It would be a costly mistake!
- 6) Calculator suitable to use on lecture exams. May not have multi-line screen nor extensive memory. (See later discussion.)
- 7) **Four** standard (8 1/2" x 11") gray scantron sheets (Form No. 0-101607-TAMU) must be purchased from the bookstore and turned 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.

## Optional Materials:

- 1) "Student Solutions Manual, General Chemistry", 6th Edition, Y. Tang and W. Keeney-Kennicutt, 2000.
- 2) 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.
- 3) "ChemSkill Builder", version 6 (or newer), James D. Spain.

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

**Lecture Homework Assignments:** Homework problems will be assigned from the textbook and from On-line Web Learning (OWL). The textbook problems will be for practice but may be similar to those on exams. There will be a total of 6 OWL assignments. Details on how OWL will be used as homework assignments will be distributed separately at another time. Each set of homework will be worth 5 points for a total of 30 for the semester. Homework must be submitted on time for it to be counted.

Percentage of problems correctly completed and turned in on time.	<60%	60 – 69%	70 – 79%	80 – 89%	>89%
Number of points added to your course total points	0	2	3	4	5

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

Attendance will be checked periodically.

**Quizzes in Lecture:** Quizzes will be given in lecture during the semester. Your eight best scores will be counted. Your score on the quizzes that are counted will contribute a maximum of 32 points to your possible lecture average. Most quizzes will involve cooperative efforts.

**Exams:** There will be three Lecture Exams (Exams 1, 2 and 3) given on the days indicated in the attached calendar. These are in addition to the QUIZZES, a FINAL EXAM and MAKE-UP EXAMS. These exams 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 45-minute exams given during the regular lecture times. Each exam is worth 100 points. Exam 1 will cover material through Chapter 5 of the textbook. Exams 2 and 3 will concentrate on material covered after the previous exam; however, 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, 200 point exam that may test on any materials covered during the semester. The scheduled time for the Final Exam is Monday, Dec. 16 from 10:30 to 12:30. **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 my office or a short e-mail message. The make-up exams will be at least as difficult as the regular exams.

**Grade Calculations:** Grades will be calculated on the basis of total points earned.

**LECTURE POINTS POSSIBLE:**

Homework	30
Exams (3 @ 100 points each)	300
Quizzes (best 8 @ 4 points each)	32
Comprehensive Final	200
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Total of Lecture Points	562

**LABORATORY POINTS POSSIBLE:** (These points will be adjusted so that the lab average of each section will be between 80 and 86%.)

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

(Adjusted for class average, then multiplied by a factor ( ~0.62) so that the maximum Laboratory Points is 186.)

Course Point Totals = (Total of Lecture Points) + (Total of Laboratory Points after adjustment) = 562 + 186 or 748 possible.

Likely Grades (The range of each letter grade will be assigned at the end of the semester.) In the past, typical grade ranges were:

- 650 (~87%) and greater points = an A,
- 649 to 554 points (~74%) = a B,
- 543 to 449 points (~60%) = a C,
- 448 to 382 points (~51%) = a D,
- fewer than 382 points = an F

There is no reason to expect that the ranges will be greatly different this semester.

**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 the grade of "I".

**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.

(B) Prior to the first lecture exam, purchase **Four** 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.

(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 Schedule:** An SI (Supplemental Instruction) leader will be assigned to these sections of Chem 101 and will hold 2 or 3 review sessions per week. In addition to the regular SI sessions, I will conduct Review Sessions before each exam. They are currently scheduled on 9/24 (Tue) at 7:00 p.m., 10/20 (Sun.) at 6:30 p.m., 11/17 (Sun) at 6:30 p.m. and 12/14 (Sat) at 9:30 a.m. Each of these will be in Room 100 of Heldenfels. Other review sessions may be arranged for other dates and times. Times and rooms for review sessions may need to be changed.

**Final Lecture Exam Schedule:** Our final lecture exam is scheduled for Monday, Dec. 16 from 10:30 to 12:30 in Room 100 Heldenfels. Please do not expect to take the final exam at any time other than its scheduled time.

**Office Hours:** An office hour will be held after nearly every lecture. Additional office hours will be added when other aspects of my schedule are better known.

**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 100, 413, and 117)

**World Wide Web (<http://www.chem.tamu.edu/class/fyp/>)**

Included are (1) details on individual lecture and lab sections, and (2) a test-bank of selected multiple-choice questions for each chapter, and (3) a math review. One special service is the ability to check your grades confidentially on the web. To do so, go to 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. E-mail me if there is a problem at peck@tamu.edu.

**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 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."

**Copyright:** The handouts used in this course are copyrighted. By "handouts," I mean all materials generated for this class, which include but are not limited to syllabi, quizzes, exams, lab problems or study sheets, in-class materials, review sheets, and additional problem sets, notes, etc. Because these materials are copyrighted, you do not have the right to copy the handouts, unless I expressly grant permission.

**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, either 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: 8 a.m. to 5:30 p.m.). If you have any questions, see me.

**Important Dates:**

<b>Sept. 5:</b>	Last day to drop a course with no record.
<b>Sept. 6:</b>	Beginning of Q drop.
<b>Sept. 6:</b>	Last day to add a class/change sections.
<b>Oct. 18:</b>	Midsemester Grades Due in Chemistry Department
<b>Nov. 8:</b>	Last day to Q drop a course.
<b>Nov. 28-29:</b>	Holiday - - Thanksgiving
<b>Dec. 6:</b>	Course Evaluations
<b>Dec. 9:</b>	Re-defined Day (FRIDAY CLASSES)
<b>Dec. 11-12:</b>	Reading Days (No Classes)
<b>Dec. 16:</b>	Final Lecture Exam for Sections 527 - 538 is from 10:30 - 12:30 pm in Room 100 Heldenfels.