



TEMPLE UNIVERSITY

GENERAL CHEMISTRY PROGRAM

Temple University

Main Campus

Chemistry C081/C083

www.temple.edu/GenChem

DISCLAIMER:

Students are required to read and understand this document. Ignorance of the rules, as in life is no defense. The policies contained will help you survive the course and maximize your grade.

COURSE:

This syllabus pertains to the courses offered within the General Chemistry Program offered at the Main Campus of Temple University and includes:

C081 General Chem Sci I *Lecture/Recitation*
C083 General Chem Sci I *Laboratory*

PRE-REQUISITES:

http://www.temple.edu/bulletin/policies/policies_part4.htm#prerequisites

Students invited to attend the Temple Academy meet course prerequisites. Students who desire to strengthen their chemistry background should contact their instructor or their TA for additional tutorial sessions.

REGISTRATION:

Students are registered by responding to the Provost's invitation.

DROP/ADD:

N/A

WITHDRAWALS: [TU Policy \(02.10.14\)](http://www.temple.edu/bulletin/policies/policies_part5.htm#withdrawal)

http://www.temple.edu/bulletin/policies/policies_part5.htm#withdrawal

During the first two weeks of the fall or spring semester or summer sessions, students may withdraw from a course with no record of the class appearing on the transcript. In weeks three through nine of the fall or spring semester, or during weeks three and four of summer sessions, the student may withdraw with advisor's permission – there is no need to seek out an instructor's signature.

The course will be recorded on the transcript with the notation of "W," indicating that the student withdrew. After week nine of the fall or spring semester, or week four of summer sessions, students may not withdraw from courses and will receive a letter grade.

A student may withdraw from no more than five courses during the duration of his/her studies to earn a bachelor's degree. A student may not withdraw from the same course more than once.

TEXT:

Chemistry – Matter and its Changes, John Wiley & Sons, *4th Edition*

Cooperative Chemistry, McGraw-Hill, *3rd Edition*,

"Red Safety Books" – General Guidelines for CST Labs, *TU Copy Center (601 Conwell Hall)*

Scientific calculators (with log and exponential functions) are strongly recommended. However, it is your responsibility to learn how to use the calculator & keep it in good working condition. Sharing of calculators will not be permitted during exams or quizzes.

Students are not permitted to use PDAs, cell phones, pagers or other electronics during exams & quizzes. Students that use such devices will earn a zero on the assignment and may receive an "F" in the course.

ATTENDANCE:

Participation in the Temple Academy program requires a commitment to attend all lecture, laboratory, and recitation sessions. Extensive out of class work will be required, particularly for coordination and completion of the laboratory exercises.

INCLEMENT WEATHER:

The Universities class cancellation numbers are **101** for day classes & **2101** for evening classes, starting after 4 PM. The most accurate and up-to-date information can be obtained directly from the University (215.204.1975, WRTI, 90.1 FM, or <http://www.temple.edu>). In the event of a cancellation it should be assumed that any exams or graded work will be due at the next class meeting unless otherwise stated.

MAKE-UP:

Students will need to insure that they meet their obligations to laboratory partners because the course is conducted in the "cooperative chemistry" format. Because the laboratory, lecture, and recitation are taught by the same instructor and the laboratory is dedicated to this course, it will be easy to arrange additional laboratory or tutorial meetings.

GRADING:

Grades will be issued separately for the lecture and laboratory courses according the guidelines below but may be altered by your lecture instructor per information disclosed during the 1st class meeting (see [Attendance & Homework](#)).

<u>LECTURE/RECITATION</u>		<u>LABORATORY</u>	
Lecture Exams	2 @ 200 pts each	Lab Reports	4 @ 50 pts each
Lecture Final	1 @ 400 pts	Lab Quizzes	4 @ 10 pts each
Recitation Quizzes	4 @ 50 pts each	Lab Posters	4 @ 50 pts each
Total	1000 pts	Total	440 pts

All exams should be considered cumulative unless otherwise noted.

Note that grades for the lecture and laboratory are calculated independent of each other, however it is expected that students that perform well in one course generally do well in the other as they learn and reinforce concepts but scores earn in once class will not be used in the other.

If graded work is submitted on time and in the proper format, every effort will be made to return it the following week. It is the student's responsibility to submit work directly to their instructor (see [Late Work](#)) and to collect it when returned. Your instructor is not responsible for uncollected work after 1 week.

See the [Course Schedule](#) for announced exams, quizzes, and experiments. All graded assignments will be administered during the week indicated. On occasion it may be necessary to alter the course schedule due to [Inclement Weather](#) or for instructional purposes. In such an event it is the student's responsibility to take note of the announced change.

Students should keep a record of all scores returned and confirm scores with their instructor at the end of the semester. In the event of a discrepancy (see [Grading Disputes](#)) the score will defer to that recorded in the grade book unless the graded work can be produced.

In the event you are absent for a graded assignment see [Attendance & Make-up](#), or if you will be submitting a laboratory report late see [Late Work](#).

GRADING DISPUTES:

In the event of a dispute over the grading of an assignment, the student must contact their instructor within two weeks of the assignment being returned to resolve the issue. If the dispute is still unresolved feel free to contact the coordinator (see [Office Hours](#)). After the two week window your instructor has no obligation to consider grade disputes.

Students should also confirm scores with their instructor before the last class meeting to assure there are no transcription errors. Once grades are submitted to the coordinator, scores become final.

In the event of a dispute of the course letter grade, the student must make contact with the coordinator (see [Office Hours](#)) within 6 months of the close of the semester. Grade changes must be approved by the Dean's office and are warranted only in the event there was an error in the calculation of the grade.

CHEATING:

Students are expected to uphold the highest levels of academic honesty including those working in laboratory teams. All graded work excluding laboratory experiments are to be completed individually and following the parameters of the assignment. During the collaborative efforts of a lab experiment each student is expected to perform an equal amount of work and each student is responsible for writing their own

individual lab report. Although collaboration and discussion are encouraged, reports are to be written in the students own words.

Students that do not uphold the highest levels of academic honesty will be failed in the course and their names will be reported to the Dean's office for disciplinary action.

HELP:

Please take full advantage of all of the academic support services available at Temple University. These include your lecture, recitation, and lab instructors' office hours (see [Office Hours](#)) and the Math & Science Resource Center (MSRC, 17 Curtis Hall 215-204-8466, <http://www.temple.edu/msrc>). (Also see [Disability](#))

OFFICE HOURS:

As you will be in contact with your instructors frequently through the semester, particularly for laboratory and recitation, please use following to help you keep all of the information organized. Please write in your instructor information along with your locker combination below. (Also see <http://www.temple.edu/GenChem>)

Each of your instructors will hold a minimum of two hour of office hours each week. This is your time to address grading concerns, ask questions, or otherwise have contact with your instructor. Please limit your visits to posted office hour times or make an appointment with your instructor.

<u>Name</u>	<u>Office</u>	<u>Phone</u>	<u>Email</u>	<u>Office Hours</u>
John P. Scovill, Ph.D. Renata Skubutyte	BE 240	215-204-7341	scovilli@temple.edu tua10644@temple.edu	1:00 to 2:00 MTWTh, or by arrangement

DISABILITY:

Persons with disabilities are entitled to reasonable accommodations and academic adjustments under Section 504 of the Rehabilitation Act of 1973. Student seeking additional information should contact Disability Resources & Services (100 Ritter Annex, 215.204.1280). Services include: note transcription, large print media, alternative testing environments, etc. Students utilizing DRS services must submit the "blue" alternative testing form to their instructor two weeks prior to the exam/quiz date.

Only students with proper DRS paperwork may utilize alternative procedures.

HOMEWORK (RECITATION):

It is the lecturer's prerogative to take attendance in recitation and to grade homework to be used in the determining of the lecture grade. Homework is expected to be completed and ready for review at the START of the recitation period. Material submitted after the start of class may be considered late at the TA's discretion.

See [Lab Preparation](#) regarding laboratory homework.

LATE WORK:

Late work should be hand delivered to your instructor. If you place your work in a mailbox, under an office door, or give it to a third party, we will not be held responsible for it becoming lost. If unable to hand deliver your work, please make a photocopy before submission and you must email your instructor to check their box. Under no circumstances should work be placed in your lecture instructor's or coordinator's mailbox. All late work will be assessed a **10 point deduction per day**.

Although absent graded assignments are still due on the date prescribed, see [Attendance](#).

LAB PREPARATION:

Students taking the laboratory are expected to have **read, outlined, and understand** the day's experiment as well as have completed the pre-lab exercise BEFORE coming to class. Students who are not prepared, at instructor's discretion, will be barred from the lab but may make-up the experiment (see [Make-Up](#)). This requirement is for your safety as well as the safety of your fellow students.

If asked to leave the laboratory, for any reason, by your instructor, please do so.

Upon arrive to lab and BEFORE the lab quiz the pre-laboratory exercise and lab report for the previous experiment are due. Submission after the lab exam will be considered late.

LAB SAFETY:

Students are required to conduct themselves in a professional and safe manner as outlined in the safety release form that you must sign and file with your instructor, before permitted to work in the lab. Students that are acting unprofessionally or unsafely will be ejected from the lab **without** the possibility of a make-up.

Although the majority of the substances used in this course are no more dangerous than what is found under your kitchen sink, in order to comply with Federal Laws and OSHA regulations, students are required to come to class dressed properly.

- (1) Shorts and mini-skirts are only permitted in the lab if you wear a full-length lab coat or apron at all times. (available through the HSC Bookstore: 215.707.3157, Student Faculty Center 1st Floor – Broad & Ontario Sts)
- (2) Sandals or open toe shoe are not permitted in the lab at any time.
- (3) Students must ABSOLUTELY have a pair of **ANSI Z87.1** approved GOGGLES when working in the lab.

Students that come to class dressed improperly or without goggles will not be permitted to work in the lab but may make up the experiment according to the Make-Up procedure. If asked to leave the laboratory, for any reason, by your instructor, please do so.

In addition, the hygiene of lab rooms, balances & hoods are the responsibility of the entire class, and if left in an unsafe safe condition the entire class will have their grade reduced.

CODE OF CONDUCT:

<http://www.temple.edu/assistance/udc/coc.htm>

Temple University is a community of scholars in which freedom of inquiry and expression are valued. Important aspects of attending the University as a student are having respect for the rights of others in the community, conducting one's self in a manner that is compatible with the University's mission and taking responsibility for one's actions. In addition to exhibiting appropriate maturity and self control, members of the University community are expected to conduct themselves in a manner in which they neither break laws nor cause mental, physical, or emotional harm to others.

To fulfill its functions of promoting and disseminating knowledge, the University has authority and responsibility for maintaining order and for taking appropriate action, including, without limitation, exclusion of those who disrupt the educational process. A complete copy of the Student Code of Conduct may be found at the **Student Assistance Center** (*A6 Student Center, 215.204.8531, <http://www.temple.edu/assistance/>*).

COURSE SCHEDULE:

- 1 NO INSTRUCTOR SIGNATURE REQUIRED (Policy 02.10.14). Drop & Withdrawal deadlines are set by the University and should be considered "Hard Deadlines".
- 2 All MIDTERM exams are during regular Lecture times in the Lecture room.
- 3 The exam dates were selected to permit sufficient time for students to withdraw after receiving exam scores.

	Date and Day	Lecture Chapters	Recitation	Laboratory
1	Jul 5 (W)	1, 2		Orientation
2	Jul 6 (Th)	2		Check in
3	Jul 10 (M)	5		Identification, Properties, and Synthesis of an Unknown Ionic Compound
4	Jul 11 (T)	5		Identification, Properties, and Synthesis of an Unknown Ionic Compound
5	Jul 12 (W)	5/4		
6	Jul 13 (Th)	4	Quiz	
7	Jul 17 (M)	4		Identification, Properties, and Synthesis of an Unknown Ionic Compound
8	Jul 18 (T)	Exam 1		Properties of Matter and Separations
9	Jul 19 (W)	8		
10	Jul 20 (Th)	8		
11	Jul 24 (M)	9		Properties of Matter and Separations
12	Jul 25 (T)	9		Properties of Matter and Separations
13	Jul 26 (W)	10		
14	Jul 27 (Th)	10	Quiz	
15	Jul 31 (M)	10		Identification Properties and Synthesis of an Unknown Organic Compound
16	Aug 1 (T) (Last day to withdraw)	Exam 2		Identification Properties and Synthesis of an Unknown Organic Compound
17	Aug 2 (W)	25		
18	Aug 3 (Th)	25	Quiz	
19	Aug 7 (M)	6		Identification Properties and Synthesis of an Unknown Organic Compound
20	Aug 8 (T)	6		Identification Properties, and Synthesis of an Unknown Organic Compound
21	Aug 9 (W)	7		
22	Aug 10 (Th)	7	Quiz	
23	Aug 14 (M)	Final Exam		Check out
24	Aug 15 (T)		Poster Gala	

CHAPTER LISTING (4th Edition of Brady-Sense)

Ch 1: Atoms & Elements	10, 11, 13, 20, 22, 23, 24, 25, 26, 29, 30, 34, 36, 37, 40, 42, 44, 45, 47, 50, 52, 55, 58, 59, 61, 62, 64, 65, 66, 68, 70, 74, 76, 80, 82
Ch 2: Compounds & Chem Rxn	2, 4, 5, 6, 7, 9, 10, 11, 14, 16, 17, 20, 22, 23, 26, 28, 29, 32, 33, 34, 39, 42, 43, 44, 48, 49, 51, 53, 55, 59, 60, 62, 65, 71, 73, 75, 77, 79, 81, 83, 85, 89, 93, 95, 97, 99, 101
Ch 3: Measurement	1, 5, 6, 7, 8, 10, 11, 12, 13, 15, 18, 20, 22, 26, 28, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 56, 58, 62, 64, 68, 70, 72, 74, 78, 84, 94
Ch 4: The Mole	2, 4, 5, 6, 9, 14, 16, 19, 22, 24, 26, 28, 30, 32, 34, 36, 42, 44, 52, 54, 58, 62, 64, 68, 72, 76, 80, 84, 88, 92, 94, 96, 100, 104, 106, 110, 114, 116, 120, 122
Ch 5: Rxn Between Ions	1, 2, 7, 8, 9, 11, 13, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 37, 41, 43, 45, 48, 50, 53, 54, 55, 57, 59, 60, 62, 66, 70, 76, 78, 80, 82, 84, 88, 90, 96, 98, 102, 104, 108, 112, 118, 124, 130,
Ch 6: REDOX	1, 8, 9, 12, 15, 20, 22, 25, 27, 29, 35, 37, 39, 43, 45, 51, 57, 59, 63, 67, 69, 71, 77, 81
Ch 7: Energy & Chem Change	3, 4, 7, 10, 12, 14, 18, 19, 43, 49, 53, 57, 65, 67, 69, 73, 75, 79, 83, 91, 93, 97, 101
Ch 8: Quantum Mechanics	1, 3, 4, 7, 8, 16, 24, 34, 41, 50, 58, 61, 63, 68, 72, 73, 77, 85, 87, 91, 95, 99, 105, 109, 111, 115, 121, 125, 129, 131, 133
Ch 9: Chem Bonding – General	2, 3, 5, 9, 12, 13, 15, 22, 32, 37, 39, 46, 55, 56, 68, 70, 76, 78, 82, 84, 88, 90, 92, 94, 98, 102, 108, 110, 114, 115, 116, 122,
Ch 10: Chem Bonding – Structure	1, 2, 3, 7, 10, 23, 24, 35, 42, 54, 56, 58, 60, 66, 68, 70, 72, 76, 80, 82, 86, 88, 90, 97
Ch 25: Organic Compounds & Biochemicals	2, 3, 4, 7, 8, 9, 10, 13, 44, 54, 55, 56, 58, 60, 62, 64, 66, 68, 69, 70, 72, 75, 76, 80, 81