

CHE 103: Chemistry in the Modern World
Fall 2016

GENERAL COURSE INFORMATION

Instructor Information

Dr. Mary Boyden

Office Hours: By appointment; appointments are scheduled via e-mail.

Email: mnboyden@syr.edu

Course Website: <http://blackboard.syr.edu>

Chemistry Department Office: CST 1-014 (You may drop off mail and doctor's notes here.)

TA Office: LSB 124 (Hours: [Blackboard.syr.edu](http://blackboard.syr.edu))

TAs	Email
Elizabeth Clifford	ecliffor@syr.edu
Arizza Ibanez	asibanez@syr.edu

Course Description

This course is intended for students who are not science majors, and there are no prerequisites for the course. Students will be introduced to chemistry and gain an appreciation of the importance of chemistry in our world today. Topics will include batteries, polymers, and biochemistry. This course will include a laboratory component.

Lecture Class Times and Locations

2:15-3:45 PM on Mondays and Wednesdays

Maxwell Hall Auditorium

Textbook and Supporting Materials

- *Chemistry for Changing Times, 14th Edition* by John W. Hill and Terry W. McCreary (paper or e-text)
- *Modified MasteringChemistry* access code for this textbook

Both are available at the SU bookstore and through Pearson Publishing.

- Simple calculator

If you are having difficulty with this course:

The teaching assistants (TAs) for this course hold office hours in Room 124 Life Science Building. You may attend the office hours of any CHE 103 TA to obtain help. The times are listed on the course website: <http://blackboard.syr.edu>

IT IS THE RESPONSIBILITY OF THE STUDENT TO SEEK HELP IN A TIMELY MANNER.

APPROXIMATE COURSE SCHEDULE

Week of:	Monday	Wednesday	Lecture Topics	Lab Assignments
Aug 29	Ch 1	Ch 1	Introduction	MasteringChemistry
Sept 5	Labor Day	Ch 2	Atoms	Rainbow Density p.40
Sept 12	Ch 2	Ch 3	Atomic Structure	Conservation of Matter p. 64
Sept 19	Ch 3	Ch 4	Structure & Bonding	Birthday Candles p. 94
Sept 26	Ch 4	Review	Chemical Bonds	Chemical Reactions (handout)
Oct 3	Exam 1 (Ch 1-4)	Ch 5	Chemical Accounting	none
Oct 10	Ch 5	Ch 6	Accounting/ Solids, Liquids, Gases	Blowing Up Balloons p.188
Oct 17	Ch6	Ch 7	Intermolecular Forces/ Acids & Bases	Paper Chromatography (handout)
Oct 24	Ch 7	Ch 8	pH/Oxidation-Reduction	Acids, Bases, pH p.215
Oct 31	Ch 8	Review	Batteries	Light My Fruit p 248
Nov 7	Exam 2 (Ch 5-8)	Ch 9	Organic Chemistry	none
Nov 14	Ch 10	Ch 16	Polymers & Biochemistry	Polymer Bouncing Ball p 315
Nov 21	Thanksgiving Break			
Nov 28	Ch 17	Ch18	Food & Drugs	Periodic Graphics – Eggs & Bell Peppers or Antibiotics
Dec 5	Review	Exam 3 (Ch 9, 10, 16-18)		none
Thursday, December 15th, 5:15-7:15 PM, Maxwell Auditorium, Cumulative Final Exam				

Homework Schedule

Homework Due at the latest on Sundays at 11:59 PM	Assignments
Sept 4	<i>MasteringChemistry</i> Tutorials
Sept 11	Chap 1
Sept 18	Chap 2
Sept 25	Chap 3
Oct 2	Chap 4
Oct 9	none
Oct 16	Chap 5
Oct 23	Chap 6
Oct 30	Chap 7
Nov 6	Chap 8
Nov 13	none
Nov 20	Chap 9 & 10
Nov 27	none
Dec 4	Chap 16 & 17
Dec 11	Chap 18

Homework is submitted online through the course website: <http://blackboard.syr.edu> using *Modified MasteringChemistry*.

COURSE POLICIES

Academic Honesty

Complete academic honesty is expected of all students. Any incidence of academic dishonesty, as defined by the Syracuse University Academic Integrity Policy (<http://academicintegrity.syr.edu>), will result in both course sanctions and formal notification of the College of Arts & Sciences.

Attendance

Acceptable excuses for missing lecture or lab include medical, religious, and University-sponsored activities (e.g. athletics). In all cases official, written documentation is required. Requests for special accommodations (except medical) must be made two weeks in advance. NO VERBAL EXCUSES WILL BE ACCEPTED. All such absences will be verified by Chemistry Department staff.

In case of illness you should inform your instructor or TA as soon as possible, prior to class time is preferred. Medical absences will be excused based on written advice from the Health Center or a licensed health-care provider (based upon clinical findings and prescribed treatment recommendations). NO VERBAL EXCUSES WILL BE ACCEPTED. The medical document must specifically indicate that you were unable to attend class. For complete details on excuse notes, visit: <http://health.syr.edu/students/policies.html>.

Attendance is required in the laboratory. Students must attend the laboratory section for which they are registered. All students must arrive to class on time. If a student arrives late, that student may not be permitted to carry out the experiment. *Students may not leave the laboratory until they are completely finished unless they obtain permission from the TA.*

There will be NO MAKEUP LABORATORIES except in the case of advanced-notice approved absences. ALL ADVANCED-NOTICE MAKEUP LABORATORIES MUST BE APPROVED AND SCHEDULED BY YOUR INSTRUCTOR.

An absence will not automatically be excused. Written excuses will be evaluated by the instructor. Unexcused absences will result in a score of zero for that laboratory, quiz or exam.

Religious Observances Policy (http://supolicies.syr.edu/emp_ben/religious_observance.htm)

SU recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holy days according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or work requirements that may be missed due to a religious observance provided they notify their instructors before the end of the second week of classes. An online notification process is available through MySlice/Student Services/Enrollment/My Religious Observances from the first day of class until the end of the second week of class. The religious observances policy requires accommodation for the religious holiday itself, not for travel days if a student will be observing the holiday elsewhere.

Disability-Related Accommodations

Syracuse University values diversity and inclusion; we are committed to a climate of mutual respect and full participation. My goal is to create a learning environments that are useable, equitable, inclusive and welcoming. If there are aspects of the instruction or design of this course that result in barriers to your inclusion or accurate assessment or achievement, I invite any student to meet with me to discuss additional strategies beyond accommodations that may be helpful to your success.

If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS), disabilityservices.syr.edu, located at 804 University Avenue, room 309, or call 315.443.4498 for an appointment to discuss your needs and the process for requesting accommodations. ODS is responsible for coordinating disability-related accommodations and will issue "Accommodation Authorization Letters" to students as appropriate. Since accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible.

IF YOU HAVE A LEARNING OR PHYSICAL DISABILITY, please contact Professor Boyden as soon as possible (during the first week of the semester) to arrange for appropriate accommodations.

Safety

Safety is the most important aspect of working in the chemistry laboratory. Students must follow all of the safety protocol as outlined and directed by the instructor. Students must behave in a respectful manner while in the laboratory. Students may not use electronic devices (e.g. mobile phones) other than calculators or lab equipment in the laboratory. Such devices are a distraction and thus a safety violation. Students must sign the safety agreement. Students who violate safety protocol, become disruptive/disrespectful, or ignore directions given by the instructor will be asked to leave the laboratory and receive a grade of zero for that laboratory.

Email

Email is the official form of communication for this course. If an instructor needs to contact you during the semester, you will receive email at your Syracuse University email account. It is the responsibility of the student to check their SU email regularly.

COURSE GRADING

Laboratory Reports and Assignments

All laboratory reports and assignments are due at the end of the laboratory class period. You may not take your laboratory report out of the classroom. If you do not turn in your report at the end of class, you will not receive any credit for the report.

The participation grade is based upon the student's level of preparation, safety, cleanliness, involvement in the experiment, behavior, and attention to instruction. This grade will be assigned by the teaching assistant.

You are responsible for the answers on your laboratory report. If there is a problem with the grading of your laboratory report, you must inform Dr. Boyden within one week of the report being returned to you. It is the responsibility of the student to inform the instructor of problems in a timely manner.

General Grading Information

Grades are calculated as follows:

3 Exams (10% each)	30%
Final	15%
Quizzes	15%
Online Homework	20%
Labs & other assignments	20%

The preliminary scale for course letter grades is shown below. This scale reflects the minimum scores that are required to achieve each letter grade. It does not explicitly show the +/- ranges for each letter grade nor reflect any curve that may be applied to the grades at the end of the semester. A curve would never lower a letter grade. For example, if you earn a 90% average, the lowest possible letter grade that you would receive is an A-. The determination of whether a curve will be applied will be made at the end of the semester.

Letter Grade	Percentage
A-range	90-100%
B-range	80-89%
C-range	70-79%
D-range	60-69%
F	≤59%