SYLLABUS FOR

GENERAL CHEMISTRY II – CHEM 1032 – Sec. 019-023

1. Course Descriptions:

a. Pre- and Co-Requisites:

(3 s.h.) The second semester of chemistry for science majors, pre-professional students, and others in science related fields. An introduction to properties of liquids and solutions, equilibrium, kinetics, thermodynamics, electrochemistry, and nuclear chemistry. Prerequisite: Chemistry 1031, with a grade of C- or better. Co-Requisite: Chemistry 1034 is normally taken concurrently. Three hours lecture and one hour recitation per week. Note that a grade of C or better is in CHEM 1032 is required before students are able to enroll in BIO 2112.

b. Teaching Staff Info:
Lecturer: Dr. Daniele Ramella; Office: BE 126B; Phone: 215-204-1931; E-mail: daniele.ramella@temple.edu
Office hours: Just drop by my office if the door is open and I am at my desk. Generally, it is easier to find me in the morning, as I teach classes during the afternoons.

Recitation TA: Laura Sonnenberg E-mail: laura.sonnenberg@temple.edu
Office hours: M 1.30-2.30 and R 2.30-3.30 in the public area of Beury’s 4th floor

Recitation TA: Jordan Aguirre E-mail: jordan.aguirre@temple.edu
Office hours: M 3-4pm and F 11am-12noon in the public area of Beury’s 2nd floor

Recitation TA: Jesse Wiener E-mail: JWiener@temple.edu
Office hours: M 12-2pm in the public area of Beury’s 4th floor

Recitation TA: Josh McDevitt E-mail: joshua.mcdevitt0001@temple.edu
Office hours:

PASS Leader: Kyle Winters E-mail: kyle.winters@temple.edu
c. Coordinator:
Dr. John B. Michel (BE 126B; ext. 2434; jmichel@temple.edu). Dr. Michel is the person to see regarding scheduling issues and drop/adds in recitation and lab sections.

d. Communications:
- Weekly, you will find on Canvas the following materials: blank slides, practice packets, announcements, grades and scores, full slides.

e. Course Materials:

TEXTBOOK RESOURCE: OpenStax Chemistry; Free, Open Source textbook, the html version as well as a downloadable pdf file are available on-line at https://openstax.org/details/chemistry. You may also (NOT REQUIRED!) order a paper copy of it for $55, or obtain the iBook for $4.99. I suggest you print out the free pdf version and collect it in a binder!

HOMEWORK ACCESS: As a pilot, this class will be using Sapling, instead of Mastering Chemistry. All information needed to correctly register for this class can be found at: https://www.saplinglearning.com/ibiscms/login/. While enrolling for a new course, the course string you should be browsing for is Temple University - CHEM 1032 - Spring18 - RAMELLA

CHEM101 APP: You are required to download the free CHEM 101 app and to purchase access to the class ($5). The course code is JSZB4Y.

OPTIONAL EXAM GUIDES: For the Final Exam, you are encouraged to purchase the General Chemistry Study Guide from the American Chemical Society (ACS) at: http://shopping.na1.netsuite.com/s.nl/c.3773982/it.A/id.1717/.f Copies of this guide are on reserve in the Science and Engineering Library. The Library allows you to take pictures or scan these guides. If you go early in the semester, you will find them available; if you wait until the study period at the end of the semester, they will likely be taken.

f. Procedures:

Drop/Add: During the first two weeks of the semester students may only register for open Lecture and Recitation sections with permission from Dr. Michel in consultation with the lecturer. The last day to drop a course without a record of the class appearing on the transcript is Monday, January 29th.

Withdrawal: In weeks three through eight of the semester, a student may withdraw only with their advisor's permission. This is Temple University's Policy (#02.10.14). There is no need to seek a lecturer's or instructor's signature. The course will be recorded on the transcript with the notation of “W,” indicating that the student withdrew. A student may withdraw from no more than five courses during his/her undergraduate career. A student may not withdraw from the same course more than once. After week eight, students may not withdraw from courses and will receive a letter grade. The last day to withdraw from a course is Wednesday, March 21nd.
Incompletes: An incomplete, or “I”, will only be given in accord with Temple University’s Policy (#03.12.13). An “I” cannot be assigned until the specific requirements have been met and the Agreement for Issuing an Incomplete form has been signed and submitted by the instructor and the student prior to submitting the form to the Dean’s Office or Dean’s Designee for final approval. To obtain an “I”, at least 50% of the work for the course must be completed, a student’s accumulated point total must be more than 75% of the total number of possible points, and there must be a valid reason acceptable to academic advising. For students who are assigned a grade of “I”, all previous scores will stand and will be used in the calculation of the final score and grade when the course is completed. No “I” designation may be requested after the final exams for these two courses have been administered.

2. Meetings and Attendance:

Students are expected to attend all lectures and recitations, to arrive on time, and to remain for the entire class. Cell phones should be switched off during lectures and recitations. Laptops and other electronic devices are allowed if used for note-taking; if it becomes obvious you are using them for non-learning related activities (social media, games, etc…), you will be asked to put it away. It is a student’s responsibility to take good notes of the material covered in lectures and recitations, be aware of any deadline, assignment, announced schedule changes and their implications to graded work.

Inclement Weather: 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.

a. Lectures: Lecture is the main section in which the material is presented. Lectures are taught by the lecturer of the course, Dr. Ramella. Students are expected to come to lecture with some notion of what material will be covered. Pre-lecture activities are assigned for this purpose (see below). Although lectures are sessions of more than 200 students, you are encouraged to be active, participate as much as possible and be engaged: chemistry is cool! If you have a question, chances are at least other five or six students in the audience have the same question. So, don’t be shy; understanding concepts is crucial. It is also crucial that students take good notes. Students will find on Blackboard the “Blank Slides” for the upcoming week (typically uploaded on the previous Friday afternoon). It is suggested, although not required, that you print out these slides (or hand-copy them onto your notebook) and bring them to lecture. The lecturer will work through them to “fill in the blank”, during lecture. The schedule for the lectures is as follows:

<table>
<thead>
<tr>
<th>Sections</th>
<th>Meeting Times</th>
<th>Room</th>
<th>Lecturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>019-023</td>
<td>TR, 12.30-13.50</td>
<td>BE 164</td>
<td>Dr. Daniele Ramella</td>
</tr>
</tbody>
</table>

b. Recitations: Recitations are small sections of less than 30 students taught by an instructor under the supervision of the lecturers. Recitations are designed for students to ask questions on the lecture material the exercises/problems that appear in the textbook and the discussion packets provided by the lecturer. Students are strongly encouraged to attempt most of the exercises/problems that pertain to the lecture material covered during the week prior to the recitation. Instructors will also review material that will help students prepare for exams.
Recitations will meet starting the **first** week of the semester, starting on Tuesday, **January 16th**. Students are required to attend their registered recitation section at the scheduled time. Students are encouraged to ask questions while homework and important lecture topics are reviewed; weekly quizzes are given on-line via Sapling but the score will be voided if a student does not attend recitation. The full schedule is as follows:

<table>
<thead>
<tr>
<th>Section</th>
<th>Meeting Time</th>
<th>Room</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>019</td>
<td>M 4pm</td>
<td>BE 120</td>
<td>Jordan Aguirre</td>
</tr>
<tr>
<td>020</td>
<td>T 10am</td>
<td>BE 120</td>
<td>Laura Sonnenberg</td>
</tr>
<tr>
<td>021</td>
<td>W 2pm</td>
<td>BE 120</td>
<td>Joshua McDevitt</td>
</tr>
<tr>
<td>022</td>
<td>R 10am</td>
<td>BE 120</td>
<td>Joshua McDevitt</td>
</tr>
<tr>
<td>023</td>
<td>F 11am</td>
<td>BE 119</td>
<td>Jesse Wiener</td>
</tr>
</tbody>
</table>

c. **Study and Review sessions:** TBA

### 3. Grading policies:

**a. Point Breakdown:**

The course has a total of 1000 points available to students. These 1000 points can be earned as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams I, II, III, IV (best 3 out of 4)</td>
<td>300 pts</td>
</tr>
<tr>
<td>Final exam (cumulative)</td>
<td>200 pts</td>
</tr>
<tr>
<td>Recitation quizzes</td>
<td>100 pts</td>
</tr>
<tr>
<td>Pre-lecture activities</td>
<td>50 pts</td>
</tr>
<tr>
<td>In-lecture activities (clickers etc…)</td>
<td>100 pts</td>
</tr>
<tr>
<td>Post-lecture homework</td>
<td>100 pts</td>
</tr>
<tr>
<td>Other credits and projects</td>
<td>150 pts</td>
</tr>
</tbody>
</table>

**TOTAL**                                      **1000 pts**

**b. Approximate Grades:**

Approximate grades are as follows. Note that this grading scale may change depending on the class average.

- A/A-: > 800
- B+/B/B-: 650 – 799
- C+/C/C-: 500 – 649
- D: 400 – 499
- F: < 400

**c. Exams, curves and grades.**

Individual exams may be more or less challenging and students should NOT try to use the letter grade breakdown shown above for individual exams. Only the overall final score will be fit in this curve. This being said, a score above 70% is good, a score between 50 and 70% is passing but not great and a score below 50% is a failing grade.

With the exception of the Final Exam, all exams are held during regularly-scheduled lecture periods. Students should keep records of all scores received, and confirm scores with their instructor at the end of the semester. If there is a discrepancy, the scores recorded in the grade book in Blackboard® prevail unless the work can be produced.
Letter grades for the course will be assigned by the lecturer based on the exam, quiz et cetera scores. If the scoring of an exam is disputed, the student must contact his/her lecturer to resolve the issue within one week after the exam was returned. If the scoring of a recitation quiz is disputed, the student must contact his/her recitation instructor to resolve the issue within a week after the quiz was returned. If the dispute cannot be resolved, students should contact the lecturer. At the conclusion of the course, the lecturers will determine grades in consultation with each other, taking into consideration the lecture section averages. Be assured that the lecturers will ensure fairness in the assignment of final course grades.

If the student disputes the course letter grade, he/she must contact the lecturer within 6 months of the close of the semester. Grade changes are warranted only if there was an error in the calculation of the grade, and must be approved by the Dean's Office.

d. Cheating:
Students are expected to adhere to the highest standards of academic honesty. Collaboration and discussion are encouraged, but all work to be graded is to be written in the student’s own words. Cheating of any kind is not tolerated; see the Student Code of Conduct: [http://policies.temple.edu/getdoc.asp?policy_no=03.70.12](http://policies.temple.edu/getdoc.asp?policy_no=03.70.12)

e. Student Rights and Responsibilities:
The University has a policy on Student and Faculty Academic Rights and Responsibilities: [http://policies.temple.edu/getdoc.asp?policy_no=03.70.02](http://policies.temple.edu/getdoc.asp?policy_no=03.70.02)
Temple University is a community of scholars in which freedom of inquiry and expression is valued. Each member of the University community is expected to have respect for the rights of others, to conduct one’s self in a manner that is compatible with the University’s mission, and to take responsibility for one’s actions. 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. Please refer to the Student Code of Conduct.

f. Help: here is a message from the CLASS center, a terrific resource for academic support!

**The Center for Learning and Student Success (CLASS):** The CLASS offers a wide range of academic support services to help students adjust to the expectations of the college classroom and succeed in their classes and beyond. Our peer-to-peer services include tutoring, academic coaching, and Peer Assisted Study Sessions (PASS).

**Need a study guide?** We are offering Peer Assisted Study Sessions for your course! PASS is for those who prefer to study with classmates under the guidance of someone who has already succeeded in the course. Times and dates for these guided study groups are will be announced when they become available. Keep an eye on your email or CLASS Blackboard Organization for more information.

Check out all that the CLASS has to offer by stopping by 1810 Liacouras Walk, Room 201, or checking us out online at [www.temple.edu/class](http://www.temple.edu/class)!
g. Disability:
Any student who has a need for accommodation based on the impact of a disability should contact the lecturer to discuss the specific situation as soon as possible. Contact Disability Resources and Services (DRS) at 215-204-1280 in 100 Ritter Annex to arrange reasonable accommodations for students with documented disabilities. [http://www.temple.edu/disability](http://www.temple.edu/disability)

4. Assignments, Class Preparation and Important Information:
The class is designed on weekly cycles. It is important students keep up with the material and the topic covered, otherwise they will not be prepared when the exams get close. The following assignments are designed to help students stay on track, allowing them to earn points but also to learn. The latter (learning) is more important.

a. Pre-Lecture Activities:
The week starts before Monday morning lecture. There are no lecture quizzes in this class. Instead, a short assignment will be posted on Sapling and will need to be completed before the first lecture of the week, unless otherwise noted.

b. Lectures:
Although attendance is not mandatory, there is a clear correlation between attendance to lectures and scores on exams. Pop-quizzes will be given during lectures; they will NOT be announced in advance; you should expect a few “clicker questions: during most lectures.

c. Recitation Quizzes:
There will be at least 8 recitation quizzes on lecture material covered the previous week, given during the last 10 minutes of each recitation meeting. Quizzes will not be given during weeks with an exam. Quiz dates and topics will be announced a few days in advance. There are no make-up quizzes; a score of zero will be recorded for a missed quiz. Students are not allowed to take a quiz in a recitation section in which they are not registered, without first contacting the lecturer for approval. The lowest quiz score is dropped and the remaining total is normalized to 100 points.

d. Homework:
The week ends with the homework. On-line home-works are graded and should be intended by students as a self-assessment tool, to check whether they have mastered the material of the week. They will be posted on Sapling and students will have (on average) 10 days of time to complete them. Since they cover the material of the week, they will include material not yet covered when posted, but all the material will be covered by the date they are due. The first homework will be due on Monday 1/23.

e. Other credits and projects (aka extra credit):
Exams should not be the only way I can assess your understanding and learning of the subject. For this reason, there are up to 150 pts that can be earned through other activities. This will include the possibility for students to produce a short video (max 10 min) about an observation they made in real life and which can be explained with the materials learned during the chem 1/chem 2 curriculum, compile study guides as wikis on Canvas, upload the weekly practice packets on Canvas, and extra assignments that will be announced during the semester. All these are
designed as ways to deepen your understanding of the subject, and are rewarded with extra credit to acknowledge the time and effort invested.

f. Exams:
There are four hour-exams scheduled during the semester. Each exam will cover the material covered in lectures and recitations. A schedule of hour-exams, as well as their content is part of the class schedule, shown below on pages 8 and 9. Note that there are no make-up exams for Exams I, II, III, or IV (see below). There are no make-up exams for Exams I, II, III, and IV. Students will be allowed to take an exam early if they:

- are member of a sports team and are required to travel or play on the day of the exam, and who have official documentation
- are required to go on a field trip as part of a course, and who have official documentation
- will be absent due to due a religious holiday

If a student misses an exam due to illness, travel issues, or personal problems, then a score of zero will be recorded. Each hour-exam is worth 100 points. The best 3 exam scores will count towards the final grade; the lowest score on one of these exams will be dropped.

The final exam, will be comprehensive and worth 200 points. Students will be allowed to take the Final Exam at a later date if there is a conflict with another exam, or if an absence is beyond the student’s control and compelling documentation is provided. Make-up exams for the Final Exam will be offered only if an absence is beyond the student’s control and compelling documentation is provided. The student must meet with the lecturer, ideally within 24 hours, who will then decide if a make-up exam is justified. The make-up exam will be given 1 or 2 days after the regularly scheduled exam at a time and place determined by the lecturer.

With the exception of the Final Exam, all exams are held during regularly-scheduled lecture periods (see schedule). Exams I – IV will contain a mixture of multiple choice questions, short answer/explanation questions and numerical problems, similar to those in the textbook.

The Final Exam will be held during finals week on Monday, May 7th, from 3:30 – 5:30 pm. The location is yet to be determined. The Final Exam will be a multiple-choice exam covering the work of the entire semester. More details on the Final will be available later in the semester.

Before each exam, tutors from the CLASS center will conduct sessions in which they will review exercises and problems from the textbook as well as questions from practice exams. Students are expected to come prepared to ask questions on problems that they have attempted. Tutors will not re-teach any of the lecture material.