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: Colin Moran
E-mail: colin.moran@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:

This course will require a subscription to Cengage Unlimited which includes access to the interactive e-books: General Chemistry (1st edition) by Vining et al. (using MindTap) and Chemistry and Chemical Reactivity (10th edition) by Kotz et al. (using OWLv2). You will be using only one platform (MindTap or OWLv2) but you should register for both so that you will have access to them for General Chemistry II next semester. You will also have access to MindTap Labs with your unlimited purchase which you need for both semesters of Chemistry Lab (CHEM 1033 and CHEM 1034).

Cengage Unlimited is a digital subscription service which can save you a lot of money. With Cengage Unlimited you can access any Cengage materials you are using across all of your courses and a library of 20,000 e-books, study guides and reference materials. The majority of students in this course will also be taking Pre-Calculus (MATH 1022), Calculus I (MATH 1041) or Calculus II (MATH 1042); all three courses are using Cengage products, so this is a great deal! Cengage Unlimited costs $120 for one semester, $180 for two semesters, or $240 for two years. Please review closely the following recommendations:

You can purchase access to Cengage Unlimited at the Temple University bookstore or at www.cengage.com.

You will be using the MindTap platform and the text by Vining in this course. To access the interactive e-book, login to your Cengage account at: Cengage Login, and then look for:

CHEM 1032 – General Chemistry II – Ramella – Spring 2020

For help with purchasing and registration, please visit: www.cengage.com/start-strong.

Students should have a Scientific Calculator that includes exponential and log functions. Note that the possession, use and sharing of graphing and programmable calculators and cell phones, is strictly prohibited when taking exams.

For the Final Exam, students are encouraged to purchase the General Chemistry Study Guide from the American Chemical Society (ACS) at: ACS Study Guide. Copies of this guide are on reserve in the Paley Library.
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 27th.**

**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 18th.**

**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 Canvas 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 MindTap 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>Colin Moran</td>
</tr>
<tr>
<td>020</td>
<td>T 10am</td>
<td>BE 120</td>
<td>Colin Moran</td>
</tr>
<tr>
<td>021</td>
<td>W 2pm</td>
<td>BE 120</td>
<td>Colin Moran</td>
</tr>
<tr>
<td>022</td>
<td>R 10am</td>
<td>BE 120</td>
<td>Colin Moran</td>
</tr>
<tr>
<td>023</td>
<td>F 11am</td>
<td>BE 120</td>
<td>Colin Moran</td>
</tr>
</tbody>
</table>

c. DPT - 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>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams I, II, III, IV (best 3 out of 4)</td>
<td>400 pts</td>
</tr>
<tr>
<td>Final exam (cumulative)</td>
<td>100 pts</td>
</tr>
<tr>
<td>Recitation quizzes</td>
<td>100 pts</td>
</tr>
<tr>
<td>Pre-lecture activities</td>
<td>100 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>Recitation activities</td>
<td>100 pts</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>1000 pts</strong></td>
</tr>
</tbody>
</table>
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 Canvas 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 Canvas 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!

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

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. Short assignments will be posted on MindTap and will need to be completed before each 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, through the MindTap app.

c. Recitation Quizzes:
There will be on-line quizzes as review before each exam. The score of each quiz will be multiplied times the % attendance of the student in the recitations covering that topic. Even if you score 100% on the quiz, you will receive a 0, if you didn’t attend recitation during those weeks.
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 MindTap and students will have (on average) 8 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.

e. Other credits and projects (aka extra credit):
The recitation materials are also due for points. This semester, we will use the “challenge problems from MindTap. You will have the opportunity to work in groups on these more complex problems with your TA and a peer instructor during recitation. The 50 min of recitation will in no way be sufficient to complete these assignments. So I suggest you try to solve those problems on your own BEFORE recitation and then ask for help from other students and instructors during recitation sessions.

f. Exams:
There are four hour-exams scheduled during the semester. Each exam will cover the material covered in lectures and recitations. Note that there are no make-up exams for Exams I, II, III, or IV (see below). 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
- have a medical or other emergency, which can be documented

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. No exams are dropped. The same policy of CHEM 1031 applies as a “second chance” policy. See the CHEM 1031 syllabus for details. If you didn’t take General Chemistry 1 in Fall 2019, ask for details.

The final exam, will be comprehensive and worth 100 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 4th, 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.