Temple University
Department of Chemistry
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Introduction to Chemistry (Chemistry 1022) Spring 2020
Lecture: 6:00 – 8:30 on Tuesday in 202 Dixon Hall
Office Hours: by appointment

Keep this syllabus; it contains important information which you will need to know in order to succeed in this course. Chemistry 1022 is the second semester of Introduction to Chemistry lecture. This broad survey course in chemistry is designed primarily for non-science majors and those planning careers in allied health or horticulture. Introduction to Chemistry is a core curriculum course that can be used to satisfy the university Core Science & Technology Second Level (SB) requirement; however, it is not accepted by medical or dental schools, and cannot normally be used as a prerequisite for Chemistry 2201 (Organic Chemistry). If you expect to take Science and Technology courses in Chemistry (2000 level or above), you should take the 1031 - 1034 sequence (General Chemistry) rather than this course.

**PREREQUISITE:** A student cannot be enrolled in Chemistry 1022 unless that student has a grade of C- or higher in Chemistry 1021 or an equivalent of Chemistry 1021.

Any student who has a need for accommodation based upon the impact of a disability should contact his or her course instructor privately to discuss their specific situation as soon as possible; also it is advisable for them to contact Disability Resources and Services at 215-204-1280.

**LECTURE TEXT AND CANVAS:** 1. **REQUIRED:** Introduction to General, Organic and Biochemistry, 11th Edition, (with OWLv2, 4 terms (24 months) Printed Access Card for OWLv2 w/ MTR Intro GEN ORG & BIOCHEMISTRY) by Bettelheim, Brown, Campbell, Farrell, Torres. Published by Cengage. This book is available at the Temple bookstore.
2. In place of the 11th Edition listed above students can use Introduction to General, Organic and Biochemistry (10E, or 9E) by Bettelheim, Brown, Campbell and Farrell Published by Cengage (10E) or Thompson, Brooks/Cole (9E).
3. **Optional:** There is Printed Student Solutions Manual for Bettelheim/Brown/Campbell/Farrell/Torres’ Introduction to General, Organic and Biochemistry, 11th Edition available at the Main Campus Bookstore.
4. Students should check Canvas and Temple e-mail accounts weekly for possible announcements and possible supplementary materials. All of the handouts will be available under the Course Documents Section of Canvas. If a student misses a lecture or recitation where lecture or recitation materials for subsequent meeting(s) were passed out, the student will need to get these materials from Canvas.

**GRADING:** Grades will be based on a possible 1000 points for Chemistry 1022. The grade breakdowns are given below:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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<tbody>
<tr>
<td>Quizzes</td>
<td>200</td>
</tr>
<tr>
<td>Midterm I Exam (Ch. 10, 11, 12, 13, 15)</td>
<td>250</td>
</tr>
<tr>
<td>Midterm II Exam (Ch. 14, 16, 17, 18, 19, 20)</td>
<td>250</td>
</tr>
<tr>
<td><strong>Cumulative</strong> Final Exam (Ch. 10 - 24, 27 - 29)</td>
<td>300</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1000</strong></td>
</tr>
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**GENERAL COURSE INFORMATION:** First class: Tuesday, January 14, 2020.
Last day to drop (tuition refund available): Monday, January 27, 2020.
Last day to withdraw (no refund): Wednesday, March 19, 2020. Students who have previously withdrawn from the same course, or who have already withdrawn from 5 courses since September 2003 may not withdraw. Drops and withdrawals are handled by the student's college office.
The Spring Semester ends on Wednesday, May 6, 2020.
**ABSENCES:** Excessive absences from any part of Chemistry 1022 lecture and or recitation can result in a student receiving an F as a final grade. Attendance at all lectures and recitations is required. It is the responsibility of the student to make sure that his/her absence is recorded as excused if such is the case.

**LECTURE AND RECITATION PREPARATION:** Students should expect to spend an average of 9 hours each week outside of lab, lecture, or recitation preparing for Chem 1022 lecture and recitation. This preparation includes but is not limited to preparing for lecture by reading chapters before they are covered in lecture, and preparing for or doing homework assignments, recitation assignments, quizzes, midterms and final examinations. It is very important that students do not fall behind. It will be very difficult to catch up if a student falls behind. It is also necessary for students to constantly review material from previous chapters in order to prepare for the current material and the cumulative final exam.

**WITHDRAWALS:** Students may withdraw from the course with a grade of W at any time up to and including Wednesday, March 19, 2020. No withdrawal is possible after that date. A student who withdraws from Chemistry 1022 may or may not withdraw from Chemistry 1024. Students who have previously withdrawn from the same course, or who have already withdrawn from 5 courses since September 2004 may not withdraw. Drops and withdrawals are handled by the student's college office. The full university policy on withdrawals can be found at http://policies.temple.edu under section 02.10.14.

**INCOMPLETES:** The grade of I (Incomplete) will only be considered in cases of end of semester emergency situations where at least 50% of the term's work has already been completed with a passing grade, and only for reasons beyond the student’s control. To receive a grade of I, the student first must sign a written agreement with the instructor involved and the Chemistry department, specifying the manner by which the missed work will be completed. Notify Mr. Shapiro if you believe you have a valid reason to obtain a grade of I in Chemistry 1022. The full university policy on incompletes can be found at http://policies.temple.edu under section 02.10.13.

**ELECTRONIC CALCULATORS AND DICTIONARIES:** Although the types of calculations employed in Chemistry 1022 are generally quite simple, you may find that a pocket calculator (properly operated) will improve your accuracy. If you wish to invest in a calculator, it is suggested that you select a model which can deal with logarithms and scientific notation. Be certain that if you use a calculator, it is kept in good condition, especially for quizzes and examinations. Calculator failure will not be accepted as an excuse for a poor quiz or examination. The sharing of calculators, use of information storage devices, cell phones, pagers and other communication devices during quizzes or examinations is prohibited. The use of programmable and/or graphing calculators on examinations or quizzes is strictly prohibited. The use of simple calculators (i.e. those without keyboards) is allowed only with the permission of the Instructor. The use of PDAs, cell phones, and other communication devices and electronic or paper dictionaries is strictly prohibited. The Instructor reserves the right to design quizzes and examinations whereby the use of calculators is prohibited but the problems can be solved by estimation.

**OFFICE HOURS:** Before and after lecture and by appointment

**MID TERM REPORTS:** The University requires, for submission to them, a mid term report for this course for each student. These reports will be used to advise and council students on seeking appropriate assistance in their studies.

**TEMPLE’S POLICY ON STUDENT AND FACULTY ACADEMIC RIGHTS AND RESPONSIBILITIES:** Freedom to teach and freedom to learn are inseparable facets of academic freedom. The University has adopted a policy on Student and Faculty Academic Rights and Responsibilities (Policy
ACADEMIC HONESTY: The contents of this section are from Temple University’s 2005-2006 Undergraduate Bulletin in the Students Responsibilities part of Responsibilities section. The web address is http://www.temple.edu/bulletin/Responsibilities_rights/responsibilities/responsibilities.shtm#honesty. Temple University believes strongly in academic honesty and integrity. Plagiarism and academic cheating are, therefore, prohibited. Essential to intellectual growth is the development of independent thought and a respect for the thoughts of others. The prohibition against plagiarism and cheating is intended to foster this independence and respect.

Plagiarism is the unacknowledged use of another person's labor, another person's ideas, another person's words, another person's assistance. Normally, all work done for courses -- papers, examinations, homework exercises, laboratory reports, oral presentations -- is expected to be the individual effort of the student presenting the work. Any assistance must be reported to the instructor. If the work has entailed consulting other resources -- journals, books, or other media --, these resources must be cited in a manner appropriate to the course. It is the instructor's responsibility to indicate the appropriate manner of citation. Everything used from other sources -- suggestions for organization of ideas, ideas themselves, or actual language -- must be cited. Failure to cite borrowed material constitutes plagiarism. Undocumented use of materials from the World Wide Web is plagiarism.

Academic cheating is, generally, the thwarting or breaking of the general rules of academic work or the specific rules of the individual courses. It includes falsifying data; submitting, without the instructor's approval, work in one course which was done for another; helping others to plagiarize or cheat from one's own or another's work; or actually doing the work of another person.

The penalty for academic dishonesty can vary from receiving a reprimand and a failing grade for a particular assignment, to a failing grade in the course, to suspension or expulsion from the University. The penalty varies with the nature of the offense, the individual instructor, the department, and the school or college. Students who believe that they have been unfairly accused may appeal through the School or College's academic grievance procedure. See Grievances under Students Rights in this section.

CELL PHONE AND COMMUNICATION DEVICES: The use of cell phones, texting devices and other communication devices during lecture and recitation is considered to be disruptive. Therefore cell phones, texting devices and other communication devices should be placed on silent mode and not used during lecture and recitation except in the case of an emergency.

RECITATION: Recitation is a time when you can ask questions and practice problem solving. Attendance is expected. Quizzes will also be given in recitation and lecture. Quizzes that are taken in recitation must be taken in the recitation section that the student is registered for unless there is an extreme emergency that can be documented and approved by Dr. Bloxton. Full participation in the problem solving exercises is strongly associated with success.

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). Struggling with some material in your class? Our tutors are waiting to assist you with this discipline-based academic support! Come in for a one-on-one walk-in session today – just be sure to have your questions ready to go. Do your study skills need some fine-tuning? All of our academic coaches are here to help you develop your overall learning and study skills for any and every course you are in! Stop
on by for a walk-in session or make an appointment with one today. Check out all that the CLASS has to offer by stopping by 1810 Liacouras Walk, Room 201, 215-204-8466 or checking us out online at www.temple.edu/msrc

LECTURE GRADING: A student's lecture grade will be based upon the student's overall performance, lecture quizzes (20%), lecture midterm I exam (25%), lecture midterm II exam (25%), and a cumulative final exam (30%). These examinations will be taken in the lecture room. The lecture quizzes will be taken in the recitation sections after lecture unless it is specified that certain lecture quizzes are taken in lecture.

LECTURE QUIZZES (20%): There will be a total of 5-6 lecture quizzes that will be given in recitation after lecture. Each of these lecture quizzes will correspond to material from approximately one to two chapters in your Chem 1022 lecture text. The score of the lowest lecture quiz MAY be dropped. If one lecture quiz is missed, a score of zero will be assigned for the missed lecture quiz and this missed lecture quiz will be dropped instead of the lowest lecture quiz. Only one lecture quiz is dropped. If a student misses two or more lecture quizzes, scores of zero will be assigned for all missed lecture quizzes. The lecture quiz cannot be given to a student that comes in to class after another student has already finished and left the quiz room. Makeup lecture quizzes are not given. To allow for flexibility in timing of lecture quizzes and to help students prepare for lecture quizzes, a fixed lecture quiz schedule has not been established. However the lecture quizzes will be announced one class period in advance. Quizzes that are given in recitation must be taken in the recitation section that the student is registered for unless there is an extreme emergency that can be documented and approved by Dr. Bloxton. Copying, talking and other forms of communication between students during a lecture quiz are prohibited. The sharing of calculators, use of information storage devices, cell phones, pagers and other communication devices during quizzes is prohibited. The use of programmable and/or graphing calculators on examinations or quizzes is strictly prohibited. The use of simple calculators (i.e. those without keyboards) is allowed only with the permission of the Instructor. The use of PDAs, cell phones, and other communication devices and electronic or paper dictionaries is strictly prohibited. The Instructor reserves the right to design quizzes and examinations whereby the use of calculators is prohibited but the problems can be solved by estimation.

MIDTERM EXAMINATIONS I and II (25% EACH) AND FINAL EXAMINATION (30%): Midterm Examination I is scheduled for Tuesday, 2/20/18, and Midterm Examination II is scheduled for Tuesday 4/3/18. The Final examination is scheduled for the Tuesday of finals week. If a student has an excusable reason for missing a midterm or final examination a makeup midterm or final examination can be given. If, however, a student misses taking a midterm or final exam, during the exam times when it is given, then a grade of zero will be given if a student has no excused absence for missing a midterm or final exam. For an absence to be considered excusable, the student must provide the laboratory instructor with a written documented note, explaining the reason for the absence; whereupon, the instructor will notify the student whether or not the absence is considered excusable. A midterm or final examination cannot be given to a student that comes in to class after another student has already finished and left the exam room. Copying, talking and other forms of communication between students during a midterm or final examination are prohibited. The sharing of calculators, use of information storage devices, cell phones, pagers and other communication devices during a midterm or final examination is prohibited. The use of programmable and/or graphing calculators on examinations or quizzes is strictly prohibited. The use of simple calculators (i.e. those without keyboards) is allowed only with the permission of the Instructor. The use of PDAs, cell phones, and other communication devices and electronic or paper dictionaries is strictly prohibited. The Instructor reserves the right to design quizzes and examinations whereby the use of calculators is prohibited but the problems can be solved by estimation. A student can only take a midterm or final examination once.

DOCUMENTATION OF LECTURE/RECITATION SCORES: Student’s recitation/lecture quizzes and homework assignments, midterm and final examination scores will be recorded on Blackboard on a regular basis. Students need to keep all of their recitation/lecture quizzes and homework assignments and
midterm examinations in the event that a score is not recorded or if the score is recorded incorrectly. Students need to keep all of these graded Chem 1022 lecture materials until such time that the final grades have been submitted and the scores and final Chem 1022 lecture grade has been reviewed by the student on Blackboard. A score cannot be changed unless the student can supply the recitation/lecture quizzes and homework assignments and midterm examinations that are in question.

TENTATIVE CHEM 1022 LECTURE SCHEDULE 11th, 10th, 9th and 8th EDITIONS:
MEETING DAY CHAPTER OR EXAM

1. T 1/14 Syllabus; Chapter 10: Organic Chemistry
2. T 1/21 Chapter 11&12: Alkanes, alkenes and Alkynes
3. T 1/28 Chapter 15&13: Chirality: The Handedness of Molecules- Benzene and Its Derivatives
4. T 2/4 Chapter 14&16: Alcohols, Ethers, and Thiols & Amines
5. T 2/11 Chapter 17: Aldehydes and Ketones
6. T 2/18 **Midterm Examination I (Chapters 10, 11, 12, 13, 15)**
7. T 2/25 Chapter 18 & 19: Carboxylic Anhydrides, Esters, and Amides

Note: Spring Break is Monday 3/2– Sunday 3/18.

8. T 3/10 Chapter 20: Carbohydrates
10. T 3/24 Chapter 22: Proteins
11. T 3/31 **Midterm Examination II (Chapters 14, 16, 17, 18, 19, 20)**
12. T 4/7 Chapter 23: Enzymes
13. T 4/14 Chapter 24: Chemical Communications: Neurotransmitters and Hormones
14. T 4/21 Chapter 27,28,29: Specific Catabolic Pathways: Carbohydrate, Lipid, and Protein Metabolism