I) Prerequisites and Other Requirements:
1. The student must have successfully completed Chemistry 30A or its equivalent.
2. Each student must be registered for both the lecture section and one laboratory section.
3. Each student must receive a passing grade on a laboratory safety quiz.

II) Required Texts:
   For the study guide the ISBN number is: 10:0-321-77616-X and there is another number that should also work 13:978-0-321-77616-7
   Do not order the International Edition.
2. INTRODUCTION TO ORGANIC AND BIOCHEMISTRY : LAB MANUAL
   by Nemes and Chichester (purchase in Duncan Hall Room 20 – the basement) (Cash Only)
3. A set of Class Notes by E. Chichester: These may be purchased from the Chemistry Club (Rm 20 - Duncan Hall) - (Cash Only)

III) Course Learning Outcomes:
1. To gain a general understanding of nomenclature rules, chemical structure, and chemical properties of organic compounds.
2. To extend the aforementioned principles to biochemistry; which is, for the most part, the organic chemistry of living systems.
3. To understand the role that various biochemicals and their corresponding reactions play in living systems.
4. To examine the interrelationships and interdependencies of organic and biochemistry with contemporary society.
5. The laboratory section will:
   a. To enhance the lecture portion by providing visual examples of the chemical and physical properties of organic and biochemical compounds.
   b. To allow the student to gain some fundamental basics of laboratory techniques

IV) Lectures: The lecture section will meet twice a week. Although attendance will not be routinely taken, it is expected that you will attend all lecture periods. If you miss any lecture period, it is your responsibility, and to your advantage, to obtain the lecture notes from a classmate. The lecture will follow the schedule (see attached sheets). Additional material (other than what is in the text) will also be presented. You are responsible for this material. In addition, from time to time lecture bonus quizzes will be given in lecture. These will be given only during the lecture. Lecture Bonus quizzes will NOT be given at any other time. If you miss the bonus quizzes you will not be able to take it at another time.

V) Homework: Problems and reading assignments have been compiled (see attached sheets). Homework will not be collected; however it is to your advantage to attempt as many problems as possible. Many of the quiz questions are taken directly from the study guide. Know how to use the Study Guide!

A Note about studying for this class: Students that have passed previous classes usually attended lecture having read ahead. If you come to lecture without having read the material that is to be presented, then it is most likely that it will seem difficult to understand. Since there are only two 50 minute periods per week for this class, I have compiled an extensive set of notes for you to use. It is your responsibility to come here prepared (read the material in the text that is to be presented in class that day). I do not have the time to go over many examples. If you do come prepared then the material that I present will be familiar to you and my lectures will be clearer and should reinforce what you already have learned. Moreover, if you actually do most or all of the assigned problems (this means reading the problems and doing them before you check the answers), then the quizzes will be quite simple. If your time is limited, then it is probably better to do the problems rather than only read the material in preparation for the quizzes.
VI) **Quizzes and Exams:** A quiz will be given each week in lab, with a few exceptions; (see quiz schedule). Most of the material will be covered in lecture. The last pages of the Lab Syllabus contain questions that should be done in preparation for the quizzes. In addition, some of the quizzes will contain **BONUS** questions. These questions will be taken from supplemental reading. This material is contained within the Class Notes or the text. You will take all but one of the quizzes in your laboratory section. The last quiz will be given on the final exam day along with the final exam. A total of 14 quizzes will be taken. The lowest score on the quizzes will be dropped. In addition, a **Midterm**, will be given during the lecture hour (see attached schedule). Further details and the testing schedule are given in the laboratory syllabus. The midterm is worth 120 points (the equivalent of three quizzes). The Final is divided into two parts (a semi-comprehensive section worth 120 points [amides and amines through enzymes] and a quiz section [nucleic acids] worth the usual 40 points).

Exams may be made up only under extreme circumstances! (A note from a medical doctor is usually required.) Exams will cover those topics noted in lecture, the assigned text reading, and the assigned homework. You will not see anything new on any of the exams. Exam questions will be no more difficult than the average problem assigned in the homework.

**MOST QUESTIONS ABOUT CLASS PROCEDURE AND GRADING ARE ANSWERED WITHIN THIS SYLLABUS. REFER TO THIS SYLLABUS FOR THESE TYPES OF QUESTIONS.**

**Assessment of Course Learning Outcomes:** Assessment of material learned in this class will come from the 14 quizzes, one midterm and one final that all students are required to take. Lab reports will also be a part of the assessment of Course Learning Outcomes.

**FINAL EXAM:**
*Tuesday: May 21st - 0715 - 0930 in the Lecture Room (Sci 142). Be on time.*

VII) **Laboratory:** Each student must be registered for a laboratory section as well as the lecture section. Each lab section will meet once a week for three hours. Laboratory reports will be collected for each laboratory experiment and graded. See the **Laboratory Greensheet**. **DO NOT SWITCH LABS**

VIII) **Grades:** Grades will be based on the percentage of points accumulated out of the total possible (960 points). The following standard will be employed: 89 -100% = A range (A- to A+); 79-89% = B range (B- to B+); 63-79% = C range (C- to C+); 53-63% = D range (D- to D+); below 53% = F. The point breakdown is given below. A single grade will be given for the course. A passing grade in both the laboratory and lecture section is required for a passing grade in the course.

Keep track of your point totals throughout the semester. This will allow you to verify the point totals that I have recorded. Any time during the semester you can simply check your overall percentage and know exactly what grade you are earning.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points each</th>
<th>Total points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams (2)</td>
<td>120</td>
<td>240</td>
</tr>
<tr>
<td>quizzes (14-1)</td>
<td>40</td>
<td>520 (one quiz is dropped)</td>
</tr>
<tr>
<td>lab reports</td>
<td>10-15</td>
<td>200</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>960</strong></td>
<td></td>
</tr>
</tbody>
</table>

Please note that check-out is part of the lab report points and is worth 10 points.
IX) **Dropping the Class:**

All students who wish to withdraw from the class must complete the normal withdrawal procedure for both the lecture and lab section by the deadlines noted in the schedule of classes. You must also check out of your lab locker. An unauthorized withdrawal (failing to withdraw officially) from a course results in the automatic recording of a grade of WU which is calculated as an F in determining a grade point average.

A grade of Incomplete may be given only if 3/4 of the work of the course has been completed satisfactorily (a grade of C or better). Incompletes must be made up within one year or they are counted as an "F" in computing grade point averages. Since this is a lab class, it is most difficult to assign an Incomplete grade; therefore this will be done only for the most unusual set of circumstances. I will not drop anyone from the class. If you wish to drop, it is your responsibility to follow the paper trail, and make sure that everything has been completed.

X) **Tutorial Help:**

You may get individual tutorial help from any of the 30B lecture and laboratory instructors during their scheduled office hours. A complete schedule of office hours will be made available to you. Tutorial help may be available through the Student Affiliates of the American Chemical Society (Chem Club, DH 20).

XI) **Emergencies and Evacuations:**

If you hear a continuously sounding alarm, or are told to evacuate by Emergency Coordinators (colored badge identification), walk quickly to the nearest stairway (end of each hall). Take your belongings, as you may not be allowed to immediately return. Follow instructions of Emergency Coordinators. Be quiet so you can hear. Once outside, move away from the building. Do not return unless the Police or Emergency Coordinators announce that you may return.

XII **Accommodations for Disabilities**

If you need adaptations or accommodations because of a disability, or if you have emergency medical information to share with me, or if you need to make special arrangements in the case that the building must be evacuated, please make an appointment with me as soon as possible, or see me during my office hours.