**Chemistry 121 - Section 084, Winter 2010, Online**

**Introduction to Organic Chemistry and Biochemistry**

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**Office hours**: MTWTh 8:00 am - 9:00 am; 2:00 - 3:00 pm **E-mail**: Upali@chem.latech.edu

**Course Homepage**: <http://blackbord.latech.edu/> Select Chemistry 121 – Online Section 084, Winter 2010

**Course objective**: This is the second of a series of chemistry courses designed primarily for non-science majors who have an interest in the subject as it will be applied to future work in allied health careers. It attempts to give the student a general appreciation of the field of organic chemistry with a working knowledge of certain of its more important phases as summarized in course syllabus and course calendar.

**Text**:  **General, Organic, and Biological Chemistry**, 5th Edition H. Stephen Stoker ISBN-10: 0547152817  ISBN-13: 9780547152813 and also purchase the solution manual if you need more help.

**OWL**:  Students are required to buy access to [**OWL (Online Web-bases Learning)**](http://owl.cengage.com/owl-c/register/owlmgr.cgi?Mode=2&ArchivedDatabaseID=156&CategoryID=58) program offered by Brooks/Cole's Thompson Learning Website if the access code didn’t come with the textbook.  You will be earning (50% points) towards your grade based on your participation on OWL system activities.

**Text e-book and OWL Bundled package:**

**e-book of Organic, and Biological Chemistry**, 5th Edition H. Stephen Stoker bundled with OWL could also be purchased at the bookstore or the Brooks/Cole's Thompson Learning/Cengage web site:

https://www.cengagebrain.com/tl1/en/US/storefront/ichapters?cmd=AddProduct&Operation=Add&ISBN=049511121X&addSKUQuantity=1&cid=OWL

**Student Solutions Manual:** ISBN-10: 054716808X | ISBN-13: 978054716808.

Follow the link on the course web pages to access text-book website.

**Molecular model kits**: To be used in class and examinations to aid in the understanding of stereochemistry.

**Molecular model kits** may be purchased from Louisiana Tech American Chemical Society Student Affiliates.

**Supplements**: A full copy of my class lecture slides, homework, exam review guides and sample exam questions are available online: <http://blackboard.latech.edu/> and following the appropriate menu bars.

**Course Evaluation**:  The final course grade will be based on a score of 1000 pts. and converted to % (NO CURVE).

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| --- | --- | --- |
| 1.      Four Exams: | 50% (@ 125 pts. each) | 500 pts. (50%) |
| 2.     Comprehensive Final Exam:  | @ 125 pts will replace one of the lowest test scores |   |
| 3.      OWL Concepts Mastery: | 30% (@15 pts. each) | 300 pts. (30%) |
| 4.      OWL (OA) Assignments: | 20% (@10 pts. each) | 200 pts.    (20%) |
|        Course Total |   | 1000 pts. (100%) |

**Blackboard Option without OWL:**

Concept mastery and Assignments can be done though OWL concepts and End-of the-chapter assignments given in the blackboard.  OWL provides interactive help and more questions in case you made mistakes.

**Course performance**:

You should read, study class notes regularly and punctually on the schedule out lined on calendar. Taking tests only on test days does not reflect the complete learning/participation/experience provided in this course. The points you earned for the in quizzes and assignments reflect your class participation/experience. Failure to do so without proper excuses will lead to losing points for quizzes and assignments you missed and may lead to a lower grade for you in this course.

**Grading Policy:**

**Grading Scale**:     A = 100 - 90%    B = 89 - 80%    C = 79 - 70%    D = 69 - 60%     F = below 60%

**Grades will be posted on Blackboard**:

Grades will be posted under Course Information for CHEM 121 on [Blackboard](http://blackboard.latech.edu/). Quiz and assignment should be done on the times specified and it is your responsibility to keep records of them in a course folder to show that you have completed them and to use as study material for the final exam.  Any answer key that you need will be sent to you in e-mail or posted on the bulletin board on the blackboard.

**Tests**:  There will be four hourly exams class and a comprehensive make-up test.  Contact me before an exam by e-mail or 257-4941 if you will miss an exam due to a University allowed absence.  Only University allowed absences will be eligible for making up a tests, turning in quiz or assignment late without penalty or dropping  them you should send me a dated proof within two days of the missed work.  Only under special circumstances a missed quizzes, and assignments can be factored out of your final grade %.

Hourly Exams: **December 18**,2009 **January 20, 2010** **February 5 , 2010 and March 1**, **2010**; Make Up Exam: **March 3**, **2010,** 9:00-10:15 pm, CTH 324, Specified time at Tech Counseling Center or  with an approved proctor. Proctor approval forms are available on blackboard.

**NOTE**:  For all exams you must bring the following:  your **Tech student ID**, approved reference data, a calculator and/or molecular model kit.

 **Concept Mastery and Assignments**:  There will be about 22 OWL Concept Mastery Activities -- about 2 per chapter -- worth 10 points each.  Each Concept Mastery section will consist of a simple question pertaining to the material you have read on day you are assigned to study.  Why a Concept Mastery Activities every day?  1) this requires you to read and complete tasks where you will learn more following the instructions; 2) this assures me that you will be paying attention to concepts and learning the course material; 3) how well you do on the mastery activities lets me know how well you are learning.

**Concept Mastery(CM)**: On : **Dec 7(CM 12a), Dec 9(CM 12b), Dec 11(CM 13a), Dec 14(CM 13b), Jan 4(CM 14a),  Jan 6(CM 14b), Jan 8(CM 15a), Jan 11 (CM8 15b); Jan 13(CM 16a), Jan 15(CM 16b), Jan 22(CM 17a), Jan 25(CM 17b), Jan 27(CM 18a), Jan 29(CM 18b), Feb 1(CM 19a), Feb 3(CM 19b), Feb 8(CM 20a), Feb 10(CM 20b), Feb 12(CM 21a); Feb 19(CM 21b), Feb 22(CM 22a), Feb 24(CM 22b), March 2(CM 23a), March 2(CM 23b),** before **12:00 AM.**  (Mid-night) of the specified date.

**EOC-OWL Assignments (OA)**:  There will be 11 OWL homework assignments to check your understanding of chapter materials based on end of the chapter CPuestions .    **Your OWL Assignments done late (without justification) will lose 10% points per day past the due date.**  The due date for the OWL assignements as found on course calendar means that the homework is due on that day before 3:00 AM.

**OWL Assignments**: On: **Dec 9(OA12), Dec 16(OA13), Jan 6(OA14), Jan 11(OA 15) Jan 15(OA16), Jan 25 (OA17), Jan 29(OA18), Feb 3OA19); Feb 10(OA20), Feb 19(OA21),**  **Feb 24(OA22), Mar 2(OA23)** before **12:00 AM**.  (Mid-night) of the specified date.

**Non-graded text book homework problems**

There will also be non-graded text book homework problems assigned.  It is **very important** that you do the non-graded textbook problems because questions based on these will also appear on the exams.  If after attempting on your own, using solution manual you have any trouble with the graded or non-graded homework problems, you should contact me by e-mail or phone!

**Helpful Hints for Learning General Chemistry:**

**1.**      **Survey the assigned material for overall concepts before starting online reading, quizzes and assignments-meaning SKIM READ RELEVENT SECTIONS IN THE BOOK or e-BOOK!**

**2.**      **Go back and read the same material for comprehension focusing on unclear areas.**

**3.**      **Work problems within the chapter during this second reading.**

**4.**      **Go online and read chapter lessons before your take OWL or Blackboard quizzes and assignments.**

**5.**      **Reread any remaining unclear areas.**

**6.**      **Work problems, and work problems within lesson plans and at the end of the chapter.  Work until you fully comprehend the concept.**

**7.**      **If you are still unclear about a concept, e-mail and send a question for discussion as you study but NOT on the day of the quiz, assuagement are due, or the day before the exam (by then it will be too late for you to truly absorb the material).**

**Course Activities**:

**Online tasks**:

•     Finding and printing assignments. slides and lecture notes

•     Reading or downloading online resources such as library materials & web sites

•     e-mail interaction with professor

**Off-line tasks**:

•     Reading assignments, textbooks, articles, etc.

•     Working on problems

•     Synthesizing materials and crafting outlines

•     Making a file collecting all your papers to show authenticity of your work.

**Code of Student Conduct:**

Complete honesty in all matters pertaining to this course is required as outlined in the Louisiana Tech University Bulletin (catalog) and the Louisiana Tech Honor Code. You must not attempt to copy or download the official online TESTS, or share questions from these tests with other persons. You must not use your textbook while taking an official test and TEST must be taken independently without any outside assistance. No browsing allowed during the TEST and history will be recorded. Any academic misconduct, whether premeditated or unpremeditated (as defined in the *Code of Student Conduct*), will be reported to the Office of the Dean of Students for appropriate actions.

 **Materials covered:**

**Chapter Title Sections**

**Test 1**
12.                 Saturated Hydrocarbons
13.                 Unsaturated Hydrocarbons
14.                 Alcohols, Phenols, and Ethers
**Test 2**
15.                 Aldehydes and Ketones
16.                 Carboxylic Acids, Esters, and Other Acid Derivatives
17.                 Amines and Amides
**Test 3**
18.                 Carbohydrates
19.                 Lipids
20.                 Proteins
**Test 4**
21.                 Enzymes and Vitamins
22.                 Nucleic Acids
23.                 Biochemical Energy Production
**Self Study**
24.                Carbohydrate Metabolism
25.                Lipid Metabolism
26.                Protein Metabolism

**Important Dates During the Winter 2009 Quarter:**

December    2 Classes begin

December 18 **Christmas holiday Begin** at the end of classes

January 4 **Christmas holiday Ends** classes start 8:00 a.m.

January 4 Classes resume, 8:00 a.m.

January   18 **ML King Jr., holiday**

January 19 Classes resume, 8:00 a.m.

February      5              Last day to drop courses or resign with "W" grades

February 12 **Mardi Gras holiday Begins** at the end of classes

February 18 **Mardi Gras holiday Ends** classes resume 8:00 a.m.

March 2 Last day of classes

March 5 Grades “live” on Student BOSS

March 6 Commencement Day

**Changes on this syllabus:**

Schedules on this syllabus are not contractual and may be changed by the instructor when it becomes necessary to do so as determined by the instructor.  However, any changes that are deemed necessary to be made will be communicated orally to the students by announcement and e-mails.  Therefore, it is a requirement that students attend class on time or make themselves responsible for informing themselves of any changes made by the instructor during by logging into blackboard regularly and reading their e-mail.

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