**Chemistry 121 - Section 084, Winter 2011-2012, Online course**

**Introduction to Organic Chemistry and Biochemistry**

**Instructor**: Dr. Upali Siriwardane **Office**: 311 Carson Taylor Hall **Phone**: 257-4941

**Office hours**: MTWTh 9:00 am - 11:00 am; 2:00 - 3:00 pm **E-mail**: [Upali@latech.edu](mailto:Upali@latech.edu)

**Course Homepage**: <http://moodle.latech.edu/> Select Chemistry 121 – Online Section 084, Winter 2012

**Course objective**: This online course 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 including OWL Concept Mastery (CM) and OWL End-of-Chapter (EOC) assignments for each chapter:

**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.ichapters.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://moodle.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 75 min online Tests: | 50% (@ 125 pts. each) | 500 pts. (50%) |
| 2.     Comprehensive Make-up Test: | @125 pts will replace one of the lowest test scores |  |
| 3.     OWL Concept Mastery (CM): | 20% (@10 pts. each) | 200 pts. (20%) |
| 4.     OWL EOC Assignments: | 30% (@10 pts. each) | 300 pts.    (30%) |
| Course Total |  | 1000 pts. (100%) |

**OWL Assignments:**

Concept mastery (CM) assignments and end-of chapter EOC assignments accessed through moodle via a link to OWL website (directly at http://www.cengage.com/OWL/)  OWL provides interactive help and more questions in case you need more practice.

**Course performance**:

You should read chapters, study class notes and slides regularly and punctually on the schedule out lined on the course 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 OWL CM and EOC assignments also reflect your class participation/experience. Failure to do then on time without proper excuses will lead to losing points for OWL CM and EOC 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 Moodle**:

Grades will be posted under moodle grades for CHEM 121 (084) winter 2011. Quiz and assignment should be done on the times specified on the calendar and it is your responsibility to keep track of them in OWL grade reports and to show that you have completed them.

**Tests**:  There will be four 75 min online tests and a comprehensive make-up test on days specified by the instructor.  Contact me before a tests by e-mail or calling 257-4941 if you going to miss a test due to a University allowed absence.  Only University allowed absences will be eligible for making up a tests, turning in OWL assignment late without penalty or to get an extension. Please send me a dated proof within three days of the missed work.  Only under special circumstances a missed OWL assignments can be factored out of your final grade %.

**Hourly Exams**: **December 16 2011**, **January 20,** **February 6 and February 24**, **2012**; Make Up Exam: **February 28**,, **2012,** 9:00-10:00 pm, CTH 324, Specified time at Tech Counseling Center or  with an approved proctor

**NOTE**:  For all exams you must bring the following:  your 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(D)5 (CM 12a), D7(CM 12b), D9(CM 13a), D12(CM 13b), Jan(J)4(CM 14a),  J6(CM 14b), J9(CM 15a), J11(CM 15b); J13(CM 16a), J18(CM 16b), J23(CM 17a), J25(CM 17b), J27(CM 18a), J30(CM 18b), Feb(F)1(CM 19a), F3(CM 19b), F8(CM 20a), F10(CM 20b), F13(CM 21a); F15(CM 21b), and optional/bonus material on chapter 21, F2417(CM 21b), F27(CM 21b)** before **2:00 AM.**  (after mid-night)

**OWL (EOC) Assignments**:  There will be 11 OWL homework assignments to check your understanding of chapter materials based on (Concept mastery-CM) and end of the chapter (EOC) questions.    **Your OWL Assignments done late (without justification) will lose 10% points per day past the due date.**  The due date and time for the OWL CM and EOC assignments are found on the OWL page.

**OWL Assignments**: On: **Dec(D)7(EOC 12), D14(EOC 13), Jan(J)6(EOC 14), J11(EOC 15) J18(EOC 16), J25(EOC 17), J30(EOC 18), Feb(F)3(EOC 19); F10(EOC 20), F2115(EOC 22),**  and **optional/bonus** **F2427(EOC 22)** before **2:00 AM.**   (mid-night)

**Helpful Hints for Learning General Chemistry:**

**1.**      **Survey the assigned material for overall concepts before starting OWL 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 a second reading.**

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

**5.**      **Reread any remaining unclear areas again focus is to performing better in tests.**

**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/phone and send a question for discussion as you study but NOT on the day of the OWL assuagement are due, or the day before the tests (by then it will be too late for you to truly absorb the material).**

**Course Activities**:

**Online tasks**:

•     Finding, reading notes, printing assignments, slides and lecture notes.

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

•     e-mail or phone to ask questions from the professor

**Off-line tasks**:

•     Reading assignments, textbooks, articles, etc.

•     Working on end of the chapter question in the textbook

•     Synthesizing materials and crafting outlines

•     Making a file collecting all your papers for records and 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**

**Test 1**  
12.                 Saturated Hydrocarbons  
13.                 Unsaturated Hydrocarbons  
**Test 2**  
14.                 Alcohols, Phenols, and Ethers

15.                 Aldehydes and Ketones  
16.                 Carboxylic Acids, Esters, and Other Acid Derivatives  
**Test 3**

17.                 Amines and Amides  
18.                 Carbohydrates  
19.                 Lipids  
**Test 4**  
20.                 Proteins

22.                 Nucleic Acids  
**Self Study**  
21.                 Enzymes and Vitamins  
23.                 Biochemical Energy Production

24.                Carbohydrate Metabolism  
25.                Lipid Metabolism  
26.                Protein Metabolism

**Important Dates During the Winter 2011-12 Quarter:**

November  30 Classes begin

December 16 **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   16 **ML King Jr., holiday**

January 17 Classes resume, 8:00 a.m.

February     3              Last day to drop courses or resign with "W" grades

February   17 **Mardi Gras holiday begins** at the end of classes

January   23 **Mardi Gras holiday Ends** classes start 8:00 a.m

February 28 Last day of classes

February 29 Grades for graduating students due on BOSS

March 2 Grades “live” on Student BOSS

March 3 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 during lecture.  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 lectures.

**Important Information**

**Disability Services**

In order to serve the students with disabilities there are guideline and services provided by the Office of Disability Services of Louisiana Tech University. Students with disabilities should request the instructor to obtain extra help they needed to complete the course successfully: http://www.latech.edu/students/ods/accommodation1.shtml

**Counseling Services**

This center offers a variety of study improvement programs to assist you in maintaining academic success. Please consult this site if you are you have concerns that might affect your some academic performance: http://www.latech.edu/students/counseling/index.shtml

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