**Chemistry 121 - Section V84, Summer 2015, Online course**

**Introduction to Organic Chemistry and Biochemistry**

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

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**Course Homepage**: <http://moodle.latech/> Select Chemistry 121 – Online Section 084, Winter 15

**Course objective**: This online course is the second of a series of chemistry courses (CHEM 120 and CHEM 121) designed primarily for non-science majors who have an interest in the subject as it will be applied to their future work in allied health careers. It attempts to give the student a general appreciation of the field of organic and biochemistry 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**, 6th Edition](http://www.cengagebrain.com/shop/isbn/978-1-133-35064-4) ; Stoker; ISBN: 978-1-133-10394-3 and also purchase **Study Guide with Selected Solutions for Stoker's General, Organic, and Biological Chemistry, 6th** ISBN-10: 1-133-10423-1 , ISBN-13: 978-1-133-10423-0 Follow the link on the course web pages to access text-book website.

**OWL**:  Students are required to buy access to [**OWL (Online Web-bases Learning)**](http://www.cengagebrain.com/shop/isbn/978-1-133-93792-0) 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 Stoker's General, Organic, and Biological Chemistry, 6th** bundled with OWL could also be purchased at the bookstore or the or [online](http://www.cengagebrain.com/shop/isbn/978-1-285-05962-4).

**Supplements**: A copy of chapter notes, lessons plans, slides, sample exam questions are available online: http://moodle.latech.edu/ and following the appropriate menu bars.

**Molecular model kits**: To be used in class and examinations to aid in the understanding of stereochemistry. http://www.indigo.com/models/gphmodel/organic-chemistry-model-set-62053.html

**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.

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

**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 1 hr 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% (@15 pts. each) | 300 pts.    (30%) |
|        Course Total |   | 1000 pts. (100%) |

**OWL Assignments (50%) for the grade:**

OWL assignments are divided into **Concept Mastery (CM)** assignments and **End-Of Chapter EOC**- assignments and can be 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 grade book for CHEM 121 (084) summer 2014. OWL 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 (50% to your grade)**: 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 test, submitting OWL assignments late without a penalty or dropping them you should send me a dated proof within two days of the missed work. Only under special circumstances a missed OWL assignments can be factored out of your final grade %.

**Hourly Exams:** Test 1: **June 19**, **2015**, Test 2: **July 10, 2015,** Test 3: **July 29, 2015 and** Test 4**: August 12**, **2015**; Comprehensive Make Up Exam (optional): **August 13**, **2015,** at specified time at Tech Testing and Career Center or with an approved proctor. Proctor approval forms are available on moodle.

Tech Ruston campus Counseling Center details:
Louisiana Tech Counseling Services and Career center, Wyly Tower 320B
Please contact Ms. Jennifer D. Tyree and arrange a time in advance for a time that you can take the test.
Her contact information is
Ms. Jennifer D. Tyree, Phone: Call 257-4882 or 3180257-2969 e-mail: testinglab@latech.edu

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

 **Concept Mastery and Assignments**:  There will be about 20 OWL Concept Mastery Activities -- about 2 per chapter -- worth 20 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)**: Optimally be completed on: **June 8 (CM 12a), June 10 (CM 12b), June 12 (CM 13a), June 15 (CM 13b), June 22 (CM 14a), June 24 (CM 14b), June 26 (CM 15a), June 29 (CM 15b); July 1 (CM 16a), July 6 (CM 16b), July 13 (CM 17a), July 15 (CM 17b), July 17 (CM 18a), July 20 (CM 18b), July 22 (CM 19a), July 24 (CM 19b), July 31 (CM 20a), August 3 (CM 20b), August 5 (CM 22a); August 7 (CM 22b), August 13 (CM 21a)(extra-credit),** and **August 13 (CM 21b)(extra-credit)** before **2:00 AM.** (Just after mid-night of the specified date on the OWL).

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

**OWL-EOC- Assignments**: Optimally be completed on:  **June 10 (EOC-12), June 17 (EOC-13), June 24 (EOC-14), June 29 (EOC-15), July 8 (EOC-16), July 15 (EOC-17), July 20 (EOC-18), July 27 (EOC-19); August 3 ((EOC-20), August 10 (EOC-22),** and **August 13 (EOC-21) (extra-credit)** before **2:00 AM**. (Just after mid-night of the specified date on the OWL).

**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 and printing assignments. slides and lecture notes.

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

•     e-mail questions to 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 Sections**

**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. Vitamins and Minerals (extra credit)

23. Biochemical Energy Production\*\*(optional)

24. Carbohydrate Metabolism\*\*(optional)

25. Lipid Metabolism\*\*(optional)

26. Protein Metabolism\*\*(optional)

**\* Optional Study**

**Important Dates During the Summer 2015 Quarter:**

June 3 Classes begin

July 3 Independence day holiday Begin at the end of classes

July 6 Independence day holiday Ends classes resume @ 8:00 a.m.

July 6 Classes resume, 8:00 a.m.

February 6 Last day to drop courses or resign with "W" grades

August 14 Last day of classes

August 18 Grades for graduating students due on BOSS

August 19 Grades “live” on Student BOSS

August 20 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.

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