Chemistry 121 – (Section) xxx, Spring 2016, Dual Enrollment Course
Introduction to Organic and Biochemistry
XXXX High School

Course Homepage: http://moodle.latech/ Select Chemistry 121– Dual Section XXXX Fall 2015
Teacher: XXXX **E-mail:** XXXXXXX
Instructor of Record: Dr. Upali Siriwardane **Office**:311 Carson Taylor Hall **Phone**:257-4941 **E-mail**:Upali@latech.edu

Course objective: This dual-enrollment chemistry course offered by Louisiana Tech is the second of a series of chemistry courses designed primarily for high-school students who have an interest in the subject as it will be applied to their future allied health careers. Based on the policies of each university pre-college credits will be award for certain freshman chemistry courses. 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 ; 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 , ISBN13: 978-1-133-10423-0 Follow the link on the course web pages to access text-book website
OWL: Students are encouraged to buy access to **OWL (Online Web-bases Learning)** program offered by Brooks/Cole's Thompson Learning Website if the access code didn't come with the textbook.
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.

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-set62053.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.

Course Evaluation: The final course grade will be based on a weighted average of your grade for my class (80%) and the average of the 4 online tests from Tech

1. Four 1-Hour Online Tests	100% Tech Grade	20% of Tech Final Grade
2. Homework Assignments	30% of High School Grade	24% of Tech Final Grade
3. Quizzes	20% of High School Grade	16% of Tech Final Grade

4. In-class High School Tests	50% of High School Grade	40% of Tech Final Grade

OWL Assignments to be used in the classroom by High School Teacher:

Concept mastery (CM) assignments and end-of chapter EOC- assignments accessed through 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 in the classroom. Students who show an interest in using online learning could purchase the OWL on their own.

Course performance:

Students should regularly log into http://moodle.latech.edu/, read relevant text-book-chapters, study class notes, and slides regularly and punctually on the schedule out line on the course calendar. Cramming and taking tests only on test days does not reflect the complete learning/participation/experience provided by this dual-enrollment course. Failure to do homework assignments on time will lead to fewer points earned for homework grades and, inevitably, lower grades on quizzes and Tests.

Grading Policy:

Grading Scale: A = 100 - 93% B = 92 - 85% C = 84% - 77% D = 76% - 70% F = below 70%

Tests: There will be four hourly Tech exams given online. There will be unit inclass tests given at the high school. Standard make-up rules apply.

Helpful Hints for Learning General Chemistry:

1.Survey the assigned material for overall concepts before starting OWL assignmentsmeaning 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 you attempt/complete 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.

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 or teacher **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. In addition, you must adhere to all tents of the xxxx High School Honor Code.

Materials covered:

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

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, even if absent on the day the change is announced.

Last revised: March 9, 2016