Syllabus: Biochemistry 397, Winter 2013 (3)

Instructor:	Ross Gilmore, Ph.D.	
Office:	G2202 in	n music wing
Email:	rgilmore	@ambrose.edu
Telephone: 403 410-		-2000 ext. 5914
Class venue and ti	me:	Room # tbd, look for announcements on Moodle
Time:		Thursdays, 1:30 – 4 pm
Course prerequisi	tes:	BCH 297 (intro Biochem), CHE 251 (Organic Chem-1)

Course description:

This advanced course in Biochemistry involves detailed investigation of selected topics involving biological macromolecules and their chemistry. These topics include; current advances in cancer research, drug discovery, bacterial pathogenesis and cell biology. Research-style articles will be actively discussed, providing students with background information on these molecules, as well as the principles and most current techniques employed to study them.

Learning objectives:

- 1. Students will learn about the multidisciplinary applications of Biochemistry.
- 2. Students will learn how to critically examine research-style articles.
- 3. Students will learn to translate these research-style articles to scientific presentations.
- 4. Students will develop and enhance public speaking skills.

Required Text:

Chemical Biology by Waldmann, and Janning. Published by Wiley-VCH, ISBN: 978-3-527-32330-2

Attendance:

Attendance is compulsory for each class. Allocated marks will not be awarded if a student is absent without notice and adequate reason.

Class activity:

Class sessions will variably consist of two components. The first hour may or may not be devoted to a lecture covering relevant materials and techniques. These lectures, when they occur, will be presented by your Professor.

The second component will be presentations from students in PowerPoint format; two presentations per session. These presentations will focus on the principal techniques that were applied in a case study assigned from your course textbook. The presentations will also explain how the applied technique was used to arrive at the conclusions drawn in the case study. It will further assess the validity of those conclusions.

Each student will do three presentations over the course of the term. These presentations will be staggered over the full term.

All 14 assigned chapters will have to be read, studied, and understood by all students participating in the course. The content of those chapters and their case studies will be assessed in a series of short quizzes (20 questions, multiple choice and short answer). There will be one quiz for every chapter that a student did not present on. All of the quizzes will be through BlackBoard, open book, time limited, and due Sunday midnight of the week they were featured. Since there are 10 weeks available there will be 14 assigned chapters (case studies) and thus there there will be 11 quizzes written by each student. (one for every Chapter they don't present). There will be no final exam and no midterms. Although all quizzes will be available to students, only those you **need to write** will be credited toward your final grade.

Grading of presentations will be both peer and instructor based.

Presentations will be 20 minutes in length. They will be cut-off promptly at the 20 minute time limit and graded based upon the materials presented to that point.

Date	Торіс	Quiz Availability (due midnight of Sunday, no extensions)
Jan 10th	Instructor Lecture (several techniques and concepts covered)	none
Jan 17th	Chapter 1: Instructor-based Powerpoint presentation (Demonstration)	Chapter 1
Januar y 24th	Chapter 2 and Chapter 3 (two student presentations, A & B)	Chapters 2 and 3
Januar y 31st	Community Day	
Feb 7th	Chapters 4 and 5, student presentations (C & D)	Chapters 4 and 5
Feb 21 st to 25th	Spring Break	
Februa	Chapters 6 and 7, student presentations	Chapters 6 and 7

Topic schedule:

ry 28th	(A & B)		
March 7th	Chapters 8 and 9, student presentations (C & D)	Chapters 8 and 9	
Mar 14th	Chapters 10 and 11, student presentations (A & B)	Chapters 10 and 11	
Mar 21st	Chapter 12 and 13student presentation, (C & D)	Chapters 12 and 13	
March 28th	Chapter 14, review and discussion (Professor directed)	Chapter 14	
April 4th	No lecture or class		

Mark distribution:

Each students presentation is marked by fellow students (30%) and the instructor (70%). The breakdown of marks for each presentation is as follows:

Clarity	20
Depth of Understanding	20
Presentation Style and format	20
Background Research and Support	20
Critical review of the case study	10
Knowledge and ability to field questions	10

In addition, individual student participation as an audience member for each presentation carries 10 marks, to be assessed by the instructor and is based upon; the quality of questions asked of the presenter, respectful deportment, and evidence of comprehension/attentiveness. The total marks for each presentation will be scaled to 100, which translates to 300 for 3 presentations. In addition, 11 student participation evaluations (10 marks each) will give an additional total 110 marks. A total mark for all student presentations and participation is 410. The quizzes will be worth 3% each toward a total course weighted grade of 33%. The remaining 66% is spread over the three presentations (22% of the term mark each) and the participation grade at proportional weighting.

Grading scheme:

A+	93 - 100%	C+	66 – 69%
А	86 - 92%	С	62 - 65%
A-	82 - 85%	C-	58 - 61%
B+	78 - 81%	D+	54 - 57%
В	74 - 77%	D	50 - 53%
B–	70 - 73%	F	Below 50%

Important Notes/Dates:

The last day to enter a course without permission and /or voluntary withdrawal from a course without financial penalty	Sunday, January 20th, 2013	
Community Day Spiritual Emphasis	Thursday, January 31 st , 2013	
Family Day	Monday February 18 th , 2013	
Spring break	Feb 19 th to 23 rd , 2013	
Global Impact Day	Wednesday Feb 27 th , 2013	
The last day to voluntarily withdraw from a course or change	Monday, March 22, 2013 (Fall	
to audit without academic penalty	semester)	
Last day to request revised time for a final exam	Monday, March 4 th , 2013	
Good Friday	Friday March 29 th , 2013	
Last day to apply for time extension for coursework	April 1 st , 2013	
Last day of classes	Tuesday, April 9 th , 2013	

Please note that final grades will be available on your student portal. Printed grade sheets are no longer mailed out.

Electronic Etiquette

Students are expected to treat their instructor, guest speakers, and fellow students with respect. It is disruptive to the learning goals of a course or seminar and disrespectful to fellow students and the instructor to engage in electronically-enabled activities unrelated to the class during a class session. Please turn off all cell phones and other electronic devices during class. Laptops should be used for class-related purposes only. Please do not use iPods, MP3 players, or headphones. Do not text, read or send personal emails, go on Facebook or other social networks, search the internet, or play computer games during class. The professor has the right to disallow the student to use a laptop in future lectures and/or to ask a student to withdraw from the session if s/he does not comply with this policy. Repeat offenders will be directed to the Dean. If you are expecting communication due to an emergency, please speak with the professor before the class begins.

Institutional Academic Policies:

It is the responsibility of all students to become familiar with and adhere to academic policies as stated in the Student Handbook and Academic Calendar. Personal information, that is information about an individual that may be used to identify that individual, may be collected as a requirement as part of taking this class. Any information collected will only be used and disclosed for the purpose for which the collection was intended. For further information contact the Privacy Compliance Officer at privacy@ambrose.edu.

Although extensions to coursework in the semester are at the discretion of the instructor, students may not turn in coursework for evaluation after the last day of the scheduled final examination period unless they have received permission for a "Course Extension" from the Registrar's Office. Requests for course extensions or alternative examination time must be submitted to the Registrar's Office by the appropriate deadline (as listed in the Academic Calendar

<u>http://www.ambrose.edu/publications/academiccalendar</u>). Course extensions are only granted for serious issues that arise "due to circumstances beyond the student's control."

We are committed to fostering personal integrity and will not overlook breaches of integrity such as plagiarism and cheating. Plagiarism and cheating can result in a failing grade for an assignment, for the course, or immediate dismissal from the university college. Students are expected to be familiar with the

policies in the current Academic Calendar and the Student Handbook that deal with plagiarism, cheating, and the penalties and procedures for dealing with these matters. All cases of academic dishonesty are reported to the Academic Dean.

Students are advised to retain this syllabus for their records.

Course changes, including adding or dropping a course, may be made during the Registration Revision period, as outlined in the Calendar of Events. All course changes must be recorded on a Registration form, available from the Office of the Registrar. Due to circumstances such as class size, prerequisites or academic policy, the submission of a Registration form does not guarantee that a course will be added or removed from a student's registration. Students may change the designation of any class from credit to audit up to the date specified in the Calendar of Events, although students are not entitled to a tuition adjustment or refund after the Registration Revision period.

Withdrawal from courses after the Registration Revision period will not be eligible for tuition refund. Students intending to withdraw from some or all of their courses must submit a completed Registration form to the Registrar's office. The dates by which students may voluntarily withdraw from a course without penalty are listed in the Calendar of Events. A grade of 'W' will be recorded on the student's transcript for any withdrawals from courses made after the end of the Registration Revision period and before the Withdrawal Deadline (also listed in the Calendar of Events). 'W' grades are not included in grade point average calculations. A limit on the number of courses from which Academic a student is permitted to withdraw may be imposed. Students wishing to withdraw from a course, but who fail to do so by the applicable date, will receive the grade earned in accordance with the course syllabus. A student obliged to withdraw from a course after the Withdrawal Deadline because of health or other reasons may apply to the Registrar for special consideration.

An appeal for change of grade on any course work must be made to the course instructor within one week of receiving notification of the grade. An appeal for change of final grade must be submitted to the Office of the Registrar in writing within 30 days of receiving notification of the final grade, providing the basis for appeal. A review fee of \$50.00 must accompany the appeal to review final grades. If the appeal is sustained, the fee will be refunded.

Academic dishonesty is taken seriously at Ambrose University College as it undermines our academic standards and affects the integrity of each member of our learning community. Any attempt to obtain credit for academic work through fraudulent, deceptive, or dishonest means is academic dishonesty. Plagiarism involves presenting someone else's ideas, words, or work as one's own. Plagiarism is fraud and theft, but plagiarism can also occur by accident when a student fails or forgets to give credit to another person's ideas or words. Plagiarism and cheating can result in a failing grade for an assignment, for the course, or immediate dismissal from Ambrose. Students are expected to be familiar with the policy statements in the current academic calendar and the student handbook that deal with plagiarism, cheating, and the penalties and procedures for dealing with these matters. All cases of academic dishonesty are reported to the Academic Dean and become part of the student's permanent record.