

**BIOCHEMISTRY 300B**  
**Course Outline: Summer 2015**

**Place:** CUNNINGHAM 146

**Time:** Mondays: 8:30 am – 10:20 am  
Tuesdays, Fridays: 10:30 am - 12:20 pm.

**Textbook:** Biochemistry by Berg, Tymoczko, and Stryer, 7<sup>th</sup> edition

**Web site:** Course Spaces

**Instructors:** **Dr. Juan Ausió (Jul 13 – Aug 21)**  
**(Course coordinator)** Office: Petch 260  
Email: [jausio@uvic.ca](mailto:jausio@uvic.ca)

Office hours: 9:00 am-5:00 pm \*

**Dr. Julian Lum (Jul 6 – 10)**  
Email: [JLum@bccancer.bc.ca](mailto:JLum@bccancer.bc.ca)

\* No office hours will be offered the day before an exam.

**Lecture Content:**

Each lecture will conform approximately to the organization used in the text. If additional material and examples are used, they will be posted on CourseSpaces. The lecture schedule given below is a close approximation of what will be followed. Readings from the text for each lecture have been assigned and must be read *prior* to the lecture. Information designed to guide students with the readings is available on CourseSpaces.

**Course Organization:**

Two examinations will be held:

The midterm exam will cover material taught from July 6 to July 20 inclusive, and will be held during class time on July 24.

The final exam will be held on August 21 during class time.

**The marks of the first and second exams will represent 40% and 60%, respectively, of the entire BIOC 300B course.**

**The final exam will be comprehensive. Students should be knowledgeable about all of the concepts taught during the whole BIOC 300B summer session.**

**Grading:**

<b>A<sup>+</sup></b>	90 -100	<b>B<sup>+</sup></b>	77 - 79	<b>C<sup>+</sup></b>	65 - 69	<b>F</b>	< 50
<b>A</b>	85 - 89	<b>B</b>	73 - 76	<b>C</b>	60 - 64	<b>N **</b>	< 50
<b>A<sup>-</sup></b>	80 - 84	<b>B<sup>-</sup></b>	70 - 72	<b>D</b>	50 - 59		

**\*\* N grades**

Students who have completed the following elements will be considered to have completed the course and will be assigned a final grade: midterm exam and final exam.

Failure to complete both of these elements will result in a grade of “N” regardless of the cumulative percentage on other elements of the course. An N is a failing grade, and it factors into a student’s GPA as 0. The maximum percentage that can accompany an N on a student’s transcript is 49.

Week	Instructor	Date	Topic	chapter
1	Lum	Jul. 6	Bioenergetics	15
1	Lum	7	Intermediate metabolism: Glycolysis/ Gluconeogenesis	16
1	Lum	10	Citric acid cycle	17
2	Ausió	13	Chemiosmosis and ATP synthesis	18
2	Ausió	14	Lipid catabolism/ Amino acid catabolism	22/23
2	Ausió	17	Amino acid catabolism/DNA structure	4
3	Ausió	20	DNA structure	4 (110-122)
3	Ausió	21	Recognition of DNA by proteins/topological properties of DNA	handout
3	Ausió	24	Midterm exam	
4	Ausió	27	Topological properties of DNA (cont.)/DNA replication	28
4	Ausió	28	DNA replication in vivo (cont.)/ Fidelity of DNA replication	28
4	Ausió	31	Fidelity of DNA replication (cont.)/RNA synthesis	28
5	Ausió	Aug.4	RNA synthesis	29
5	Ausió	7	RNA processing	29
5	Ausió	10	Protein synthesis	30
6	Ausió	11	Protein synthesis	30
6	Ausió	14	Regulation of gene expression	31
6	Ausió	17	Regulation of gene expression in eukaryotes	32
	Ausió	18	review	
	Ausió	21	<b>Final Exam</b>	

### **Department Information and Policies:**

1. The Department of Biochemistry and Microbiology upholds and enforces the University’s policies on academic integrity. These policies are described in the current University Calendar. All students are advised to read this section.
2. Cell phones, computers, and other electronic devices must be turned off at all times unless being used for a purpose relevant to the class. Students having a cell phone, tablet, or computer on their person during an exam will be assumed to have it for the purpose of cheating.
3. Any recordings of lectures may only be performed with written permission of the instructor, and are for personal use only. The instructor retains copyright to such recordings and all lecture materials provided for the class (electronic and otherwise); these materials must not be shared or reposted on the Internet.
4. Course materials, such as notes, problem sheets, quizzes, examinations, example sheets, or review sheets, may not be redistributed without the explicit written permission of the instructor.
5. Students are expected to be present for the midterm and final exams. Instructors may grant deferrals for midterm examinations for illness, accident, or family affliction, and students must provide appropriate documentation 48 hours after the midterm exam. The Department of Biochemistry and Microbiology considers it a breach of academic integrity for a student taking a deferred examination to discuss the exam with classmates. Similarly, students who reveal the contents of an examination to students taking a

deferred examination are considered to be in violation of the University of Victoria policy on academic integrity (see current University Calendar). Deferral of a final exam must be requested with an Academic Concession form and submitted directly to Undergraduate Records. Deferred final exams for fall term courses will be arranged by the instructor. Deferred final exams for spring term courses will be arranged through Undergraduate Records and must be written before the end of the summer term as stipulated in the University Calendar.

6. Multiple choice scan sheets for machine scoring (bubble sheets) are considered the authentic exam answer paper and will be retained by the department for 1 year.
7. Professors may refuse to review/remark exams not written in indelible ink. In addition, requests for review/remark of a midterm exam must be made within one week of the exam being returned. Students are expected to promptly pick up midterm exams after marking has been completed, either in class or from the instructor.
8. Examination papers that have pages removed, or are mutilated will not be marked.

***Course Experience Survey (CES):***

We value your feedback on this course. Towards the end of term, as in all other courses at UVic, you will have the opportunity to complete an anonymous survey regarding your learning experience (CES). The survey is vital to providing feedback to us regarding the course and our teaching, as well as to help the department improve the overall program for students in the future. The survey is accessed via MyPage and can be done on your laptop, tablet, or mobile device. We will remind you and provide you with more detailed information nearer the time but please be thinking about this important activity during the course.