

**American University of Beirut
Faculty of Arts and Sciences
Department of Biology**

**BIOL 322
ADVANCED BIOCHEMISTRY- 3 credits
Prerequisite: Consent of Instructor
Spring 2009-2010**

Instructors	Elias Baydoun	Nadine Darwiche
email	eliasbay@aub.edu.lb	darwichn@aub.edu.lb
Office	Biology 319	Biology 201
AUB Extension	3910	3926
Office hours	T 11:00 am-12:00 pm TH 11:00 am-12:00 pm or by appointment	M 12:00- 1:00 pm W 2:00- 3:30 pm or by appointment

Meeting Time

**M-W 3:30 - 4:45 pm
Agriculture Room 310**

Course Description

This course presents the relationship of biomolecular structure to function, enzyme catalysis, regulation of gene expression, and selected topics of current biochemical research.

Resources Available to Students

- Any advanced Biochemistry book
- Recent published articles and review material
- Some lecture notes will be provided
- University library resources and internet access will be required for some topic assignments

Grading Criteria

50% of the final grade will be provided by Dr. Baydoun and 50% by Dr. Darwiche.

Class participation	10%
Oral presentations	50%
Homework, projects, and/or exams	40%

Schedule

Topic	Lecturer
Advanced Biochemistry: An Introduction	Baydoun & Darwiche
Carbohydrates	Baydoun
Lipids and Membranes	Baydoun
Proteins and Enzymes	Baydoun
Photosynthesis	Baydoun
Regulation of Gene Expression in Eukaryotes	Darwiche
Epigenetic Mechanisms of Gene Regulation	Darwiche
Steroid Nuclear Receptors	Darwiche
Ubiquitin-Proteasome System in Protein Regulation	Darwiche

Course Policies

Attendance: Students are expected to attend all classes. AUB attendance policy will be observed.

Assignments: Students are expected to submit reports on time. Late assignments may result in a lower grade.

Academic Integrity: Any act of cheating and plagiarism is not tolerated.

Please refer to AUB Student Code of Conduct <http://pnp.aub.edu.lb/general/conductcode/index.html>, and in particular section 1.1, which concerns academic misconduct including cheating, plagiarism, in-class disruption, and dishonesty.