

Advanced Cell Biology

Biology 6090/8090
Spring 2015

Course Structure:

Instructor: Dr. Fan Dong (3257) Office Hours: T, F 1-2 PM

Class meeting times:
Mondays and Wednesdays 5:00-7:00 pm in WO 3246

Text Book:

Molecular Biology of the Cell 5th Ed. by Bruce Alberts *et al.* is an excellent reference book, and is recommended. Most of the material for the class will come from this textbook. However, material covered in the lectures may come from external sources.

Student Evaluation:

Class attendance is mandatory and students are expected to attend all lectures. Grades will generally be based upon four examinations: three in-class examinations and a final. The grade will consist of 20% from each of the three in-class examinations and 40% from the final examination. However, if attendance should become an issue, pop quizzes might be introduced, which could account for up to 10% of your final grade. The quizzes would be open book.

Examinations:

Examinations will be based entirely on lecture material. The final examination will consist of 50% of material from the beginning of the course and 50% of material from the rest of the course following the last in-class examination. Examinations will start and end at the specified times. You will be given two hours to complete each in-class examination and three hours to complete the final examination. If you cannot make it to an examination on the specified date and time, you must notify Dr. Dr. Dong at least 1 week prior to the examination date. There will be no exceptions unless the student brings in a doctor's excuse. If you feel that your examination has been graded unfairly, you must respond within one week of receiving the examination back from the professor. Inquiries after this time will **not** be honored.

Questions:

Dr. Dong is available for answering questions during their office hours and during class. Therefore, students are encouraged to ask questions during class.

List of Topics:

Introduction to Cell Biology	1/12
Techniques for studying cells and introduction to Organelles I	1/14
Martin Luther King Holiday	1/19
Techniques for studying cells and introduction to Organelles II	1/21
Membrane Structure/Function	1/26
Membrane Structure/Function	1/28*
Nuclear Structure	2/2*
Protein Sorting I	2/4
Protein Sorting II	2/9
Examination I	2/11
Mitochondria and Chloroplasts I	2/16
Mitochondria and Chloroplasts II	2/18*
Cytoskeleton I	2/23
Cytoskeleton II	2/25
Cell-Cell Interaction I	3/2
Cell-Cell Interaction II	3/4
Spring Break	3/9
Spring Break	3/11
Examination II	3/16
Signal transduction	3/18
<i>Cell Cycle I</i>	3/23
<i>Cell Cycle II</i>	3/25
<i>Apoptosis I</i>	3/30
<i>Apoptosis II</i>	4/1
Examination III	4/6
<i>Cancer I</i>	4/8
Cancer II	4/13
Cancer III/Paper Discussion	4/15
Development of multicellular organisms	4/20
Specialized Tissues and Stem Cells	4/22

Immune System I 4/27
Immune System II 4/29

Final Examination: From 5:00-8:00 5/6

*Lecture given by invited speaker.

TENTATIVE GRADING SCALE

A:	100-92
A-:	91-90
B+:	89-88
B:	87-82
B-:	81-80
C+:	79-78
C:	77-72
C-:	71-70
D+:	69-68
D:	67-62
D-:	61-60
F:	<60

STATEMENT OF ACADEMIC DISHONESTY

Department of Biological Sciences

Academic dishonesty by students enrolled in undergraduate and graduate courses and programs offered by the Department of Biological Sciences will not be tolerated. Academic dishonesty includes but is not limited to:

1. Obtaining assistance from another individual during an examination.
2. Giving assistance to another individual during an examination.
3. The unauthorized use of study material or textbooks during an examination.
4. Changing answers on an examination after it has been returned and then submitting it for regrading.
5. Plagiarizing written assignments. Plagiarizing includes but is not limited to : a) Copying laboratory reports from previous years, b) copying or paraphrasing reports, term papers, or these prepared by other students, c) unauthorized collaboration in the preparation of reports, term papers, or theses, and d) use of another author's materials without appropriate acknowledgement through quotation and citation.
6. Attempting to bribe or otherwise induce an instructor to alter either a grade or examination score.
7. Obtaining or attempting to obtain a copy of an examination prior to its administration.

In accordance with policies presented in The Student Handbook and The University Catalog, Instructors have the responsibility and right to report cases of alleged dishonesty to departmental, college, and university administrative units. Students involved in academic dishonesty may expect to receive a grade of F on specific assignments as well as in the course where the assignment was made. In addition, disciplinary action may be recommended through appropriate college and university disciplinary committees. Please consult your instructor for instructions on the implementation of this policy.