

Biology 124
Syllabus, Spring 2017

Instructor: Piotr T. Filipczak, PhD

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Office Hours: Monday 10:00-10:30 a.m., Academic Building, room A113

Class Time/Place: Monday 10:30 a.m.-1:15 p.m., Academics Building, room A135

Course Description:

It is an introduction to the problems and concepts in basic biology covering chemistry of living organisms, cellular biology, genetics, evolution and ecology.

Required Class Manual:

“Thinking About Biology: An Introductory Laboratory Manual”, Bress and Weisshaar, 5th edition.

Student Learning Objectives:

At the completion of this course the student will acquire knowledge about:

- Methods and rules used in scientific investigation
- Atomic structure of matter, classes of chemical bonds, classes of organic molecules
- Characteristic features of living organisms, structure and function organelles within eukaryotic cell, cellular metabolism
- Structure, replication and expression of nucleic acids, mechanisms of cell division, genetic rules of inheritance
- Evolution and its impact on biodiversity of living organisms
- Interactions occurring among different living species within the ecosystem

Grading Policy:

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|----------------------------|-----------|
| • Attendance/Participation | 20 points |
| • Assignments | 15 points |
| • Quizzes | 15 points |
| • Midterm Exam | 20 points |
| • Final Exam | 30 points |

Grades:

- 100 or higher – A+
- 94-99.99 – A
- 90-93.99 – A-
- 87-89.99 – B+
- 83-86.99 – B
- 80-82.99 – B-
- 77-79.99 – C+
- 73-76.99 – C
- 70-72.99 – C-
- 60-69.99 – D
- below 60 – F

Minimum score requirement:

Students who do not collect at least 40% of points possible to collect in the first half of the semester may be dropped from the course at instructor discretion.

Attendance:

Each absence will result in a loss of 1 point. 3 absences by the first half of semester or 5 absences by the end of semester will result with a fail of the course.

Financial Assistance:

It is the student's responsibility to know policies for funding their education. It is the student's responsibility to maintain funding for their education.

Cell Phones:

As a courtesy to the class, please turn off all cell phones or pagers. DO NOT TEXT MESSAGE DURING CLASS. Any sight of a cell phone during exams or quizzes will result in an automatic fail for that assignment.

Special Needs:

Qualified students with disabilities should contact the instructor by the end of the 1st week of the semester to ensure that your needs are met in a timely manner.

Academic Dishonesty:

Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, up to and including dismissal, against any student who is found guilty of academic dishonesty or otherwise fails to meet the standards. Any student judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course. Academic dishonesty includes, but is not limited to, dishonesty in quizzes, tests, or assignments; claiming credit for work not done or done by others; hindering the academic work of other students; misrepresenting academic or professional qualifications within or without the University; and nondisclosure or misrepresentation in filling out applications or other University records.

UNM Valencia Campus Course Catalog:

It is in the student's best interest to have read and fully understand the catalog. Understanding the catalog helps you navigate through your degree of choice.

Week	Date (Week of)	Exercise	Activities
1	January 16 th	<i>Off – Martin Luther King Jr. Holiday</i>	
2	January 23 rd	#1 Scientific Method #7 Organic Molecules	1, 2, 3, 4, 5, 6 1, 2, 4
3	January 30 th	#2 Microscopy #3 Cells	1, 2, 3, 4, 5, 6 1, 2, 4
4	February 6 th	#4 Diffusion and Osmosis	1, 2, 3, 4
5	February 13 th	#8 Enzymes	1, 3
6	February 20 th	#9 Molecular Genetics	1, 2, 3, 4, 5
7	February 27 th	# 10 Mitosis	1, 2, 3
8	March 6 th	Midterm Exam	
9	March 13 th	<i>Off – Spring Break</i>	
10	March 20 th	#11 Connecting Meiosis and Genetics	1, 2, 3, 4, 5, 6, 7
11	March 27 th	#12 Human Genetics	1, 2, 3, 5
12	April 3 rd	#14 Functions of Tissues and Organs	1, 2, 3, 6, 7
13	April 10 th	#15 Cardiovascular System	1, 2, 3, 4
14	April 17 th	#16 Fetal Pig I	1, 2, 3, 4, 5, 6
15	April 24 th	#17 Fetal Pig II	1, 2, 3, 4, 5
16	May 1 st	Final Exam	