

Biology 124L
Syllabus, Fall 2018

Instructor: Piotr T. Filipczak, PhD

Contact Information: email - pfilipczak@unm.edu

Office Hours: Thursday 2:30 p.m. – 3:00 p.m., Academic Building, room A113

Class Time/Place: Saturday 3:00 p.m. – 5:45 p.m., Academic 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, and structure of tissues and organs.

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
- Structural organization of tissues
- Major organs and systems

Grading Policy:

- | | |
|----------------------------|-----------|
| • 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.

Schedule:

Week 1 (8/20-25)	Lab #1 Scientific Method
Week 2 (8/27-9/1)	Lab #7 Organic Molecules
Week 3 (9/3-7)	Lab #2 Microscopy & Lab #3 Cell Biology
Week 4 (9/10-13)	Diffusion Lab
Week 5 (9/17-22)	Enzymes
Week 6 (9/24-29)	Lab #9 Molecular genetics & #10 Mitosis
Week 7 (10/1-6)	Midterm Practical Exam
Week 8 (10/8-13)	Cellular Respiration
Week 9 (10/15-20)	Lab #11 Meiosis and Genetics
Week 10 (10/22-27)	Lab #12 Human Genetics
Week 11 (10/29-11/3)	Lab #14 Functions of tissues and organs
Week 12 (11/5-10)	Lab #15 Cardiovascular System
Week 13 (11/12-17)	Lab #16 Fetal Pig 1
Week 14 (11/19-24)	Thanksgiving Break
Week 15 (11/26-12/1)	Lab # 17 Fetal Pig 2
Week 16 (12/3-8)	Final Exam