



UNM Valencia Campus

Semester: Spring

Year: 2017

CRN #: 35756 Section 501. Tuesdays & Thursdays 9:00-10:15 in AS 133.

Credits: 4 credit hours

Course Description: This class covers introductory concepts vital for biology majors including; meiosis and sexual reproduction, Mendelian genetics, DNA and gene structure and function, genomics, and gene expression.

Instructor: Dr. Ben Flicker

Contact Information: My office is AS 132. My phone number on campus is 505-925-8726. My email address is benflicker@unm.edu. Email is the best way to contact me.

Office hours: Mondays 10:30-12:00 & 1-3:00; Tuesdays 10:30-12:00 & 3:00-4:00; Thursdays 3:00-4:00, or by appointment.

Textbook: *Biological Science*, Scott Freeman, Kim Quillin, Lizabeth Allison, Michael Black, Greg Podgorski, Emily Taylor & Jeff Carmichael, 2017. 6th edition, Pearson Higher Education.

UNM Learn: Course materials will be posted on the course website (<https://learn.unm.edu>) This includes the syllabus, all assignments and announcements, as well as links to email the instructor and other students in the course. You are responsible for all such communication on the learn course page, so please check regularly.

Student Learning Objectives:

- 1.) Students will display an understanding of the processes and outcomes of nuclear division by mitosis and meiosis (Ch. 12 & 13)
- 2.) Students will show comprehension of patterns of inheritance by Mendel's laws, Punnet square analysis, gene linkage, and sex-linked inheritance (Chapter 14).
- 3.) Students will exhibit familiarity with basic structure of DNA and how the information of genes is expressed and controlled in the cell (Chapters 15-19).
- 4.) Students will demonstrate knowledge of genetic engineering and genomics.
- 5.) Students will understand basic concepts of development.

-The goal of this class is to help you become literate in these scientific concepts and be able to apply them in biology as you move forward.

Attendance: Attendance is Required for all classes. Students are responsible for getting information presented in any class missed. Students may be dropped from the class after 4 absences. Excessive tardiness (greater than 10 minutes) will be counted as an absence. Quizzes and Exams will begin promptly at the beginning of the period. **Arriving late for a quiz or exam could result in a score of zero.**

Learning Center: The learning center is a useful resource for students and faculty located in the building with the library. Some regular office hours (TBA) will be kept there and provide a space to work together with classmates and the instructor outside of class periods.

Withdrawal: If you drop the course after the drop deadline, you will receive a grade of 'W'.

Title IX: In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants, and Graduate Assistants are considered "responsible employees" by the department of Education (see pg 15 - <http://www2.ed.gov/about/offices/list/ocr/docs/qa-201404-title-ix.pdf>). This designation requires that any report of gender discrimination which includes sexual harassment, sexual misconduct,

and sexual violence made to a faculty member, TA, or GA must be reported to the Title IX coordinator at the Office of Equal Opportunity (Oeo.unm.edu) For more information on the campus policy regarding sexual misconduct, see: <https://policy.unm.edu/university-policies/2000/2740.html>

Missed exam/quiz policy: Only official documentation of a medical or family emergency will excuse a missed exam or quiz. In such an instance please contact me as soon as possible to arrange a potential make-up. Un-excused absences on an exam/ quiz date will result in a grade of zero for the assessment.

Students with disabilities: Qualified Students with disabilities should see me or the campus testing center as soon as possible so we can meet your needs suitably and quickly.

Learning Objectives: For each chapter/ topic covered, you will be provided with a list of learning objectives. This list will include the relevant vocabulary terms and concepts that will be covered in that chapter and that you will be responsible for on quizzes and exams.

Problem sets: Weekly problem sets will be given out to reinforce class topics and to prepare you for in-class quizzes and exams.

Exams: 4 exams will be given. The first 3 will be worth 100 points each. The final exam will be cumulative, comprised of new material covered since the third midterm as well as all previous material. The final exam will be worth 150 points.

Quizzes: 12 quizzes will be given during the semester. There will be one after each chapter we complete. They will be designed as exam prep, to prepare you for the types of questions on the forthcoming exams. These are worth 10 points each with the lowest quiz score dropped.

Study Aids: Studying the sciences is, in some ways, similar to learning a foreign language. There are a lot of vocabulary terms that are critical to learn in order to understand the concepts of the course. To aid in that I highly recommend making flash cards of the relevant vocabulary terms given out by the instructor. A course web page of these critical vocabulary terms has been set up on the studyblue (studyblue.com) server for use on computers and smartphones.

Course Grading Policy: Lecture grades will be based on the percentage of points earned (100% or higher = A+, 99-91% = A, 90% = A-. 88-89% = B+, 87-81% = B, 80% = B-, 79-78% = C+, 77-71% = C, 70% = C-, 69-68% = D+, 67-61% = D, 60% = D-, < 60% = F.

- 120 points: Chapter problem sets (12 assignments @ 10 points each)
- 80 points: In class activities/class participation/Attendance
- 110 points: Quizzes (11 assignments @ 10 points each)
- 300 points: Exams (3 exams @ 100 points each)
- 150 points: Cumulative final exam
- 240 points: Lab Activities & Participation
- = 900 Total points

Week	Subjects covered	Homework/ Quizzes
1/16/18	Course Introduction & Chapter 12 part 1	
1/18/18	Chapter 12: Mitosis part 2	Ch. 12 problems
1/23/18	Chapter 13: Meiosis pt. 1	Ch. 12 Quiz
1/25/18	Chapter 13: Meiosis pt. 2	Ch. 13 problems
1/30/18	Chapter 14: Mendel pt. 1	Ch. 13 Quiz
2/01/18	Chapter 14: Mendel pt. 2	Ch. 14 problems
2/06/18	Exam Review	Ch. 14 Quiz
2/08/18	Exam 1: Chapters 12-14	Exam 1

2/13/18	Chapter 15: DNA and the Gene	
2/15/18	Chapter 15: DNA part 2	Ch. 15 problems
2/20/18	Chapter 16: How genes work	Ch. 15 Quiz
2/22/18	Chapter 16: Genes part 2	Ch. 16 problems
2/27/18	Chapter 17: Gene expression	Ch. 16 Quiz
3/01/18	Chapter 17: Gene expression part 2	Ch. 17 problems
3/06/18	Exam Review	Ch. 17 Quiz
3/08/18	Exam 2 (Chapters 15-17)	
3/13/18	Spring Break: No Class	
3/15/18	Spring Break!	
3/20/18	Chapter 18: Control of gene expression	
3/22/18	Chapter 18: Part 2	Ch. 18 problems
3/27/18	Chapter 19: Part 1	Ch. 18 Quiz
3/29/18	Chapter 19: Part 2	Ch. 19 problems
4/03/18	Chapter 20: Analyzing and Engineering genes	Ch. 20 Quiz
4/05/18	Chapter 20: Genetic Engineering part 2	Ch. 20 problems
4/10/18	Chapter 21: Genomics	Ch. 20 Quiz
4/12/18	Chapter 21: Genomics pt. 2	Ch. 21 Problems

4/17/18	Lecture Review	Ch. 21 Quiz
4/19/18	Exam 3 (Chapters 18-21)	
4/24/18	Chapter 22: Principles of Development	
4/26/18	Chapter 22: Principles of Development pt. 2	Ch. 22 problems
5/01/18	Chapter 23: Animal Development	Ch. 22 Quiz
5/03/18	Lecture Review	
5/10/18	Cumulative Final Exam (9:00-11:00)	

* Instructor reserves the right to alter course schedule as the semester progresses. Students will be given advance notice (at least 1 week) of any change in dates of quizzes, homework assignments, or midterm exams.

Thank you for registering for Biology 201L at UNM-VC. I am very excited to be here to help you continue your education and achieve your goals.