

BIOL 311L Genetics Lab (1 credit)
New Mexico Institute of Mining and Technology
SPRING 2019
MR 2PM-4:30PM Jones Annex 234

INSTRUCTOR:

Dr. Linda C. DeVeaux

Office: 209 Jones Annex

Office Hours: TR 11-12AM, or by appointment

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COURSE DESCRIPTION:

Catalog description: An overview of the storage, transmission and expression of biological information. The lab emphasizes Mendelian analysis in model organisms and molecular analysis of DNA.

COURSE REQUIREMENTS:

Required textbooks Laboratory manual will be supplied online through Canvas
Supplementary reading material provided online should be considered required reading unless designated otherwise. All students should read the material provided online prior to each class meeting.

EVALUATION PROCEDURES:

Grading:	Quizzes	10%
	Notebooks/QIBAs	10%
	Participation	10%
	Presentations	20%
	Lab reports/writing assignments	50%
	Total	100%

**Grading Scale: 100-90%, A; 89-80%, B; 79-70%, C; 69-60%, D; <60%, F.
I reserve the right to utilize the +/- grades for borderline situations.**

Quizzes may be given at the beginning of lab period. Questions will be derived from the previous lab (introductory lecture, the information presented in your lab manual or any thought questions) as well as the lab to be performed that day.

Presentations will be a group assignment on Experiment 3 and a final individual presentation on a current topic in Genetics (TBA).

Lab reports and writing assignments: Two experiments will be written up concisely with introduction (purpose), materials and methods, results and discussion. To help with these assignments, small writing assignments pertaining to the parts of a scientific paper will be due during the semester. More details to be provided during lab, as well as on Canvas.

Lab Notebooks and QIBAs: Each person must have a three-ring binder (1" is sufficient) into which the laboratory manual and other important printouts can be inserted. It is mandatory that you also have dividers for the individual experiments as well as any Appendices you want to include (i.e. you will need at least 9). You should also have a hard-bound notebook for recording experiments. You are responsible for recording your own data, even if the experiment involves teams. Both binder and notebooks will be evaluated throughout the semester. "Questions to be answered" (QIBAs) will be due the week after they are assigned.

Attendance in the lab is mandatory and missing a lab will affect your grade (except for extraordinary circumstances—see below). You will miss the quiz (no makeup quizzes will be given). There may be instances of sudden emergency or illness that prevent you from attending a lab. In these cases, you must speak with Dr. DeVaux within one week of the missed lab. There are no make-ups. However, with advance planning, it may be possible to attend the other laboratory section that week.

The lab is scheduled for 2.5 hours and will frequently last the entire time period. Do not schedule any other commitments for this time period.

TENTATIVE COURSE SCHEDULE: Please note that there is no Monday lab on MLK day and no Thursday lab the last week of classes. Therefore, the Thursday lab will be performing experiments first starting the second week of classes. Keep this in mind if you need to attend the other lab section

Week	Date	Experiments		Notes
1	January 14/17	Expt 1		
2	January 24/28	Expt 1	Expt 2	notebook check
3	January 31/February 4	1	1	