Genetics Lab

BIOL - 2035 001

Course Description

Coreq: BIOL 2030; required lab component of BIOL 2030. Hands-on and computer-simulated laboratory investigations of genetic processes. Lab emphasizes data analysis and complements information learned in the lecture. One laboratory session per week.

Semester: Fall & Spring

Course Presentation

Students will have a chance to ask questions regarding the pre-lab assignment.

A short presentation to introduce the lab and its procedures.

Students work in groups of 3 or 4 to complete the lab procedures and fill out the post-lab assignment.

Students will have one week to complete the post-lab quiz.

Required Textbook or Materials

Title: Information regarding labs is embedded in the BIOL 2030 Canvas Page

For more information on textbook accessibility, contact Accessibility & Disability Services at ads@slcc.edu.

Description of Assignments/Exams

Each lab will be graded based on a:

1. pre-lab quiz to be completed before the end of day of the lab session.

2. post-lab assignment to be worked on during lab session and handed in by one week after lab session.

3. post-lab quiz to be completed by one week after lab session.

Note that points earned in BIOL 2035 will contribute 20% of the points toward a student's BIOL 2030 grade.

Engagement Plan

Example language:

- I will respond to email within 2 business days. I will offer feedback on major assignments within 1 week. The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.
- Please ask questions during class.
- We will work on sample questions in class where we can learn from our peers (and faculty) on some of the more difficult units within the course.

Grading Scale

You will not receive a separate grade for the lab. 20% of the points to calculate your BIOL 2030 grade will come from lab assignments/quizzes.

General Course Policies

Attendance:

Academic Integrity:

Generative artificial intelligence (AI) software is a rapidly emerging tool that students may be interested in using. If doing so, SLCC students are expected to adhere to the same standards as the Code of Student Rights and Responsibilities statement on plagiarism.

Presenting generative AI software content as your own is a violation of academic integrity. If you use generative AI in your work, you must indicate that you have done so.

Due Dates and Late Work Policy:

Drop, Withdraw or Incomplete Grade: Last day to drop from class with refund is September 10th, withdraw without refund is October 22nd. A grade of "I" (Incomplete) is at the instructor's discretion and can be given if a student is facing extenuating circumstances preventing them from finishing the semester. In order to receive an incomplete, most of the course work must be completed (e.g. ~70%) with a passing grade. If you have any questions about grades or grading policies please visit: https://www.slcc.edu/student/enrollment/grade-policies.aspx.

SLCC Academic Policies: SLCC academic policies may be found in the SLCC 2024-2025 Catalog, and the Code of Student Rights and Responsibilities.

Course Student Learning Outcomes

- Hands-on and computer simulated laboratory investigations of genetic processes. This lab emphasizes data analysis and complements the information learned in the lecture.

College Wide Student Learning Outcomes

SLCC has identified nine essential capacities all students should strengthen, regardless of academic major or career plans, that will serve students in all aspects of life.

- Acquire substantive knowledge in the intended major and throughout General Education

- Communicate effectively

- Develop quantitative literacies necessary for the chosen field of study

- Think critically

- Express themselves creatively

- Develop civic literacy and the capacity to be community-engaged learners who act in mutually beneficial ways with community partners

- Develop the knowledge and skills to work with others in a professional and constructive manner

- Develop information literacy

- Develop computer literacy

Course Learning Environment

My hope is that all of us together will create a learning environment that supports a diversity of thoughts, perspectives and experiences, and honors your identities (including race, gender, class, sexuality, religion, ability, etc.) To help accomplish this:

- No discrimination is tolerated based on anyone's race, gender, sexuality, religion, abilities, English language proficiency or socio-economic circumstances. Please always choose kindness and patience in our class communications, there is space for all of us here.

- If you have a name and/or set of pronouns that differ from those that appear in your Canvas handle, please let me know so I can address everyone in a way that makes them feel comfortable and safe.

- I (like many people) am still in the process of learning about diverse perspectives and identities. If something was said in any of the class materials and discussions (by anyone) that made you feel uncomfortable, please talk to me about it. You can email me directly. I will keep it confidential and strive to correct the situation.

- If you feel like your performance in the class is being affected by an emergency or any other situation outside of class, please let me know so that we can discuss the best course of action. I will not be disappointed in you if you can't complete

everything on time, or don't perform to your full potential. I know everyone has a lot going on, and I understand that sometimes coursework is one of many priorities in your life. But I can't help you unless you communicate with me!

Keys to Success

Attend and participate in all lab activities.

Complete assignments and quizzes on time.

Ask questions if you do not understand something.

Free STEM Tutoring

STEM Learning provides free tutoring services and textbook checkout to students enrolled in various courses offered by the School or Science, Math, and Engineering.

Tutoring is provided as a drop-in service only, except in certain circumstances.

Please visit https://www.slcc.edu/stem/tutoring/index.aspx for more information!

How to Navigate to Canvas

Institutional Policies

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the Institutional Syllabus page.

Learning Support and Tutoring Services

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the [Institutional Syllabus](#) page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

Advising and Counseling Support Services

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, visit the [Institutional Syllabus](#) page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	[Introduce Yourself](#)	Discussion	0