North Dakota State College of Science

West Fargo High School

General Biology Lab

BIOL 150 and BIOL 150L Syllabus

Fall 2024

**Course Information:**

#  Course Number: BIOL 150 and BIOL 150 L

#  Course Title: General Biology I and General Biology I Lab

 Credit Hours: BIOL 150 (lecture) = 3 credits + BIOL 150L (lab) = 1 credit

 Class Meetings: Every other school day, 90 minutes

**Instructor Information:**

 Instructor: Susan Duffy

 School Phone: 701-356-2050

#  E-mail: sduffy@west-fargo.k12.nd.us

#  Website: https://www.west-fargo.k12.nd.us/wfhs

#  Classroom: 207K

#  Office: 207J

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**Course Description:**

The first semester of a two-semester sequenced study of the fundamental topics of biology, with macromolecules, cells, enzymes, photosynthesis, cellular respiration, cell division, and heredity. The course is designed for science majors and meets NDSU biology transfer requirements.

**Textbook and Required Materials**:

iPad – Issued by West Fargo High School

Textbook: Biology In Focus – 2nd Edition Campbell

**Learning Outcomes:**

Upon satisfactory completion of this course the student should:

1. Understand fundamental chemistry as applied to biological processes.
2. Understand cell structure and function.
3. Use knowledge about mechanisms of cellular and molecular processes.
4. Understand cell communication through transduction pathways and the regulation of the cell cycle.
5. Understand classical cell division, genetics, and heredity.

**Teaching Methods:**

The course is an inquiry-based learning environment that incorporates lab design, lab technique, discussions, analysis of lab data, and communication of lab data through lab reports.

**In person Expectations:**

It is expected that you will attend class, participate in class activities, and upon arrival in class have completed all required online work for the lesson as outlined by the weekly plans. If you are unable to attend class on your required in-person days, please email or message me to let me know ahead of time, if possible. Remember that it is YOUR responsibility to keep up with the information. Communicating with me will help you better understand what you will be missing and how to make it up.

**Assignment Submission:**

Assignments will be submitted in person and on Schoology. You can expect to complete Schoology assignments and assessments, file uploads, video/audio uploads, image uploads, and participation in discussion boards. You may also be asked to utilize online lab simulations through a variety of online learning platforms or apps throughout the semester. It is your responsibility to be aware of due dates and get your work in on time.

**Units of Instruction:** This schedule is tentative and subject to change:

* UNIT 1: Chemistry of Life
* UNIT 2: Cell Structure & Function
* UNIT 3: Cellular Energetics
* UNIT 4: Cell Communication and Cell Cycle
* UNIT 5: Heredity

**Summative Assessments & Labs**

Each unit will be assessed with a summative assessment that can take the form of a unit test or project. Every unit will have a required lab to fulfill the lab credit for GEN BIO 150L.

**Grading and Evaluation**:

Your grade will be based on your lab technique and etiquette, lab assignments, lab reports, and lab quizzes.

You will be graded using the following scale as a guideline.

 100-90%=A 89-80%=B 79-70=C 69-60%=D LESS THAN 60%=F

Quarter Grades are calculated as follows:

* 70% - Summative Assessments
* 30% - Formative Assessments

Semester Grades will be calculated as follows:

* Quarter 1 = 40%
* Quarter 2 = 40%
* Semester Final = 20%

**Late Work Policy:**

Work must be turned in online or in person on the day it is due. Assignments will not be accepted late. Lab reports and papers will be accepted for partial credit up until the time I grade the assignment. Once the assignment has been graded and returned to students with feedback, you may not turn it in for credit.

**Disabilities and Special Needs:**

A note from NDSCS: If you have a disability for which you are or may be requesting an accommodation from NDSCS, you are encouraged to contact the Accessibility Services Coordinator in person at 215 Mildred Johnson Library, by phone 701-671-2623, toll free at 1-800-342-4325 (ext. 32623) or by email mindi.bessler@ndscs.edu as early as possible in the term.

**Tie to Program Assessment Outcomes:**

This course is used to support the communication assessment outcome.

**Academic Integrity:**

Integrity is an NDSCS core value and there is an expectation that all students, as members of the college community, adhere to the highest levels of academic integrity.

Dishonesty in class, laboratory, shop work, or tests is regarded as a serious offense and is subject to disciplinary action by the instructor and dean of the respective division. For more information, refer to the NDSCS Student Planner or the College Catalog under College Policies and Basic Regulations of Conduct.

In addition, the Mathematics and Science Department expects academic integrity in all aspects of all courses. Working together is encouraged but each student is expected to participate and not just copy someone else’s work. Copying from any source (classmates, textbooks, webpages, etc.) and passing it off as you own work is plagiarism and will not be tolerated. Refer to the *Mathematics and Science Department Information, found on the NDSCS website* for more information.

**NDSCS Online**

NDSCS Online will be used in this class to post announcements, assignments, assessment activities, and other course materials. To access the site go to www.ndscs.edu, click on NDSCS Online (located on the top of the page), and log in using your Campus Connection credentials. If you have trouble logging in click the hyperlink on the sign in page and choose one of the contact options on the next page. If you have technical problems with the site once you are logged in support is available through the NDSCS Online 24/7/365 Help Desk at 877-740-2213 or helpdesk@ndscsonline.org. Help is also available from the Distance Education Office at 701-671-2275 or on-campus 3-2275 Horton 101.

**Withdrawal from NDSCS Early Entry course**

Students who wish to drop the college course must contact the NDSCS Distance Education Office at (701-671-2406). Notifying the High School of a drop/withdrawal does not withdraw the student from the NDSCS college course. If the student has not officially withdrawn from the college course, an “F” will be recorded on their permanent college transcript. View the current Refund Schedule at: <https://www.ndscs.edu/get-started/identify-my-unique-needs/dual-credit-high-school-students/dual-credit-refund-schedules/>