

Dakota College at Bottineau Course Syllabus Biology 150

Course Prefix/Number/Title: BIOL 150 General Biology, Number of Credits: 3 semester credits

Instructor: Janelle Green, MS

Office: NSC 113

Office Hours: MWF: 9:00-9:50 and/or 11:00am-11:50am or with a scheduled appointment

Office Phone: 701.228.5472

Email: Janelle.a.green@ndus.edu

Lecture Days/Times: MWF from 1:00pm-1:50pm; Location: NSC Room # 125

Course Description: The first semester of a two-semester sequenced study of the fundamental topics of biology at the level of the cell including: bioenergetics, cell structure, physiology principles, genetic function and inheritance.

Textbook Requirement: Biology. Raven, et al. 2019. 12th Edition. ISBN: 9781259188138 Student lecture slides may be available on the course page. If you would like to print them off that will be your responsibility to do so prior to class.

Materials for Lecture (Required):

1. 2 or 3 inch ring binder or folder if you are printing and keeping handouts
2. Access to a hole punch, printer, paper
3. Email and blackboard (course materials, handouts, and announcement)
3. Pen or something to write with

Prerequisites: none

Course Objectives--Demonstrate an understanding and proficiency in the following:

1. Understand cellular and viral structure and function.
2. Understand fundamental biochemical principles.
3. Understand rudimentary classical genetics
4. Understand rudimentary molecular genetics and have a familiarity with various DNA technologies
5. Use knowledge about mechanisms of cellular and molecular processes.

Course Requirements and Grading:

- A = 100-90%
- B = 89.5-80%

- C = 79.5-70%
- D = 69.5-60%
- F = below 59.5%

*Please do not request bonus points, rounding of a grade, or a grade change. If there is opportunity for extra points you will be notified.

Below is a table of course requirements. This is subject to slight modification based on the discretion of the instructor.

Requirements	Points each	Total
5 Unit Exams	100	500
1 Final Exam	150	150
1 Midterm Exam	150	150
10 Blackboard Simulations/Assignments/Quizzes	5	50
1 Small Group Project Presentation	50	50
2 Current Events Submission	10	20
3 In-class Activities	20	60
2 Assessments	10	20
		Approx. 1000 total points

Course Outline:

Lecture	Assoc. Chapters
Unit 1 Molecular Basis of Life	Ch 1-3
Exam 1	
Unit 2 Biology of the Cell Part 1	Ch 4,5,9
Exam 2	
Unit 3 Biology of the Cell Part 2 /Midterm	Ch 6-8
Exam 3	
Unit 4 Genetic and Molecular Biology Part 1	Ch 10-13
Exam 4	
Unit 5 Genetic and Molecular Biology Part 2	Ch 14-17
Exam 5	
Final Exam	

Dates to note: Assessment Day 10/14/2019, no lab on 11/26/2019, and no class on 11/27/2019.

*For a schedule of academic deadlines please reference the academic calendar on the DCB Website at: <https://www.dakotacollege.edu/academics/academic-calendar>.

General Education Competency:

Learning Outcome 1: Explains the interrelationships between humans and their environment and the role of science in their lives

Performance Indicator 3: Applies technology in the scientific process

Learning Outcome 2: Demonstrates an understanding of the natural environment

Learning Outcome 3: Applies scientific information in everyday life

Relationship to Campus Theme:

Class announcement/discussion on news items about technological developments in biology and how that influences the discipline as well as the societal aspects.

Covers DNA analysis, genetic engineering, and DNA fingerprinting

Knowledge on cell structure and function related to microscope development discussed.

Interject technological developments and how they influence scientific development and societal issues.

Classroom Policies:

- Participation is required in class.
- Any lecture printout you want will need to be printed from Blackboard prior to the start of class. These have blanks so if you miss lecture you will have to fill them in using your textbook.
- Excused absences will be for only the following reasons and still need to be discussed with me via email, text, or phone call: sickness with a doctor's note must be emailed to me, passing of a close family member, if you're an athlete and need to miss class for a game.
- All requests for absences need to be reported to me immediately. If you do not let me know why you have missed a class or discuss with me in advanced your participation for that day will result in a ZERO. You need to make advanced arrangements with me—the SOONER THE BETTER. You need to speak with me if you know you will be gone so we can schedule make up assignments.
- Missing an exam: If you know you will be gone during an exam day you need to let me know THREE days in advanced. If you miss an exam and I am not aware that you were going to miss it then your grade for that exam will result in a ZERO. There will be no make-up exams for those who do not inform me of their absences on exam days.

Academic Integrity: Cheating and plagiarism is a serious and will not be tolerated in my class or lab.

- If you decide to cheat and/or plagiarize you will be given at minimum a ZERO for that assignment, test, or quiz and with more serious cheating/plagiarism you will need to meet with Associate Dean for Academic and Student Affairs.

Disabilities and Special Needs: If you have a diagnosed learning disability, you need to contact the Learning Center in Thatcher 1104 or phone (701) 228-5477 or Jacalyn Migler 228-5672 jacalyn.migler@dakotacollege.edu. Please speak with me in person about any disabilities/accommodations so that I can make arrangements for exams. You must inform me that you have testing accommodations THREE days prior to each exam.

Email Policy: Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

Blackboard policy: You are responsible for checking blackboard and doing coursework on blackboard for this class. If you do not do the assignments on blackboard you will get a ZERO for those assignments. Blackboard assignments must be completed by the time and date indicated by each assignment. No late assignments accepted. If you are going to be absent complete the assignment prior to your absence.

Electronic Device Policy: Electronic devices will only be used in class for answering in-class questions and review participation. You will be instructed to use them at those times. If you are on your phone/unauthorized computer/smart watch/headphones or any other unauthorized device while not instructed by myself then I will ask you to leave my class for that day. You should not be texting or on social media while in my class/lecture/lab. You cannot be wearing any smart technology during ANY exam. You will be asked to remove it. If you choose to not remove it then you will be asked to leave and you will not be able to complete the exam which will result in a ZERO.