



# DAKOTA COLLEGE COURSE SYLLABUS

Course Prefix/Number/Title: BIOL 151 General Biology II

Number of Credits: 4

**Course Description:** This course is the second semester of a two-semester sequenced study of the fundamental topics of biology. Study of the unity and diversity of life with topics in botany, zoology, evolution and ecology. The course will relate organism structure and function to the environment and evolutionary processes. Botany involves the review of photosynthesis, phylogenetic classifications of plants and structure and function of higher plants. Zoology encompasses the classification of all invertebrates and vertebrates with detailed examination of their structures, functions, and ecology. Basic evolutionary processes will be defined and evaluated.

**Pre-/Co-requisites:** BIOL 150 or Instructor Approval

**Course Objectives:** Demonstrate an understanding and proficiency with the following concepts:

1. Describe the unity and diversity of life, including structure and function and how this relates to environment.
2. Describe how life (or life forms) has (have) changed over time.
3. Understand basic evolution and evolutionary processes.
4. Develop and understanding of ecology.

**Instructor:** Janelle Green

**Office:** NSC 113

**Office Hours:** 10:00 am-12:00pm MWF or as scheduled

**Phone:** 701-228-5472

**Email:** [Janelle.a.green@dakotacollege.edu](mailto:Janelle.a.green@dakotacollege.edu)

**Lecture/Lab Schedule:** MWF (lecture) 1:00-1:50pm/ Tues (lab) 1:00-2:50pm

**Textbook(s):** Biology. Raven, et al. 2019. 12<sup>th</sup> 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
4. Colored Pencils

### Course Requirements:

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

Requirements	Points each	Total
5/6 Unit Exams	100	500/600
1 Final Cumulative Exam	150	150
10 Simulations/Assignments/Quizzes	10	100
1 Small Group Outreach Activity	50	50
3 In-class Activities	20	60
2 Formal Lab Reports	50	100
12 Lab Handouts	20	240
12 Lab Participation	5	60
2 Lab Practical Exams	50	100
		Approx. 1360/1460 total points

\*An optional/required field trip will take place on February 19<sup>th</sup> to the UND Medical School.

### 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.

### Tentative Course Outline:

Lecture	Chapters	Possible Labs
Unit 1 Evolution	Ch 20-23 Cladogram Building	Fruit Fly, Hardy Weinberg, Phylogenic Trees
Exam 1		
Unit 2 Viruses and Prokaryotes	Ch 26-28	Gram Staining, Culture Growth
Exam 2		
Unit 3 Seedless and Seed Plants	Ch 29,30,35,39	Microscope Lab, Effects of Salt on Plant Growth
Exam 3		Science Olympiad Participation
Unit 4 Invertebrates and Vertebrates	Ch 32-34	Various Dissections: Clam, Squid, Pig, etc.
Exam 4		
Unit 5 Behavior and Ecology	Ch 53-58	Animal Behavior, Owl Pellets
Exam 5		
Final Exam		

### Important Dates to Note:

No labs the first week of lecture

Jan 18: No class

Feb 15<sup>th</sup>: No class

Mar 15-19 Spring Break  
Apr 3/5 No class

General Education Competency/Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s):

- Goal 1: Explains the interrelationships between humans and their environment and the role of science in their lives.
- Goal 2: Demonstrates knowledge and application of technology.

Relationship to Campus Theme:

- Class announcement/discussion on news items about technological developments in biology, and how that influences the discipline as well as societal aspects.
- Knowledge on cell structure and function related to microscope development.
- Interject technological developments and how they influence scientific development and societal issues.

Classroom Policies:

Absences: 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. If you know you are going to be gone, notify me ASAP. Knowing of an absence requires you to make up work prior to being gone unless a special arrangement has been made with myself.

All requests for absences need to be reported to me immediately and directly from you, not a third party. 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.

Being absent for any reason requires communication. If you are absent due to quarantining and/or being ill during quarantine you need to communicate as if, or better than, if you were not in quarantine. If you do not communicate I assume that you will be attending and you are capable of completing all work.

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.

Lab Absence: Labs are hard to organize and setup. If you are going to absent it is easier to makeup the lab up ahead of time instead of after. Simply not showing up for lab, or being greater than 5 min late, will result in forfeiting all participation points and points for the handout if you did not notify the instructor at least 12hrs in advance that you were going to be absent. If you are ill and it is last minute you will need to provide a doctor's note or an e-mail from the school nurse in order to make up the lab.

Lab Participation Points: The points are awarded to students that participate equally within their group and arrive on time. Simply showing up to lab does not award you these points. They are awarded at the discretion of the instructor.

Late Policy: If you are planning on being late to class please be respectful of other students in the class and sit towards the back of the room (lecture). Be discrete when opening your belongings and getting prepared. During an exam date the door will be locked after the last student receives their test that was in class on time. If tardiness becomes an issue the door will be locked on all class dates 5 minutes after the start. This will be a regular occurrence for lab. If you are locked out, you will miss/lose that days materials and all points associated with it.

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 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. All devices should be powered down during an exam. If your device is vibrating or causing a disturbance you may be asked to leave the classroom.

Student 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.

Academic Integrity:

According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred. 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 or Special Needs:

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services within the first two weeks of the semester to line up accommodations. You will need to contact the Learning Center in Thatcher 1104 or phone (701) 228-5477 or Jacalyn Migler 228-5672 [jacalyn.migler@dakotacollege.edu](mailto: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.

Title IX:

Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX Webpage.