

Course Prefix/Number/Title: BIOL 111 Concepts of Biology

Number of Credits: 4

Course Description: Concepts of Biology is an introductory level non-majors transferable class. It is designed to meet the requirements of a Lab Science.

Pre-/Co-requisites: None

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

1. Basic science literacy, possibly including superficial coverage of cell biology, ecology, human anatomy and physiology, evolution, genetics, and environmental biology.
2. Understanding how science informs cultural perspectives.
3. Understanding the relationship among levels of biological information.
4. Understanding the unity and diversity of life forms.
5. Comprehending methods of inquiry and technology and the applications for society.
6. Integrating knowledge and ideas in science.
7. Understanding and utilizing scientific knowledge

Instructor: Janelle Green

Office: Virtual

Office Hours: Please e-mail or utilize course messages.

Phone: NA

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

Lecture/Lab Schedule: Online

Textbook(s): Concepts of Biology (Open Education Resource provided by Openstax.org)  
<https://openstax.org/details/books/concepts-biology>

Course Requirements:

| Requirements                      | Points each  | Total |
|-----------------------------------|--------------|-------|
| Chapter Quizzes                   | 10           | 150   |
| 2 Midterm/Final Exam              | 100          | 200   |
| 15 Labs/Writing Assignments       | various      | 301   |
| Getting Started/Intro Assignments | 3 and 12     | 15    |
|                                   |              |       |
|                                   | Total Points | 666   |

### Grading Schedule

- A = 100-90%
- B = 89.5-80%
- C = 79.5-70%
- D = 69.5-60%
- F = below 59.5%

\*Please do not request rounding of grades or grade changes. If there are extra points available in the course you will be notified. If you achieve an 89.47 this does not justify movement to the next grade level.

### Tentative Course Outline:

| Chapters   | Due Date |
|--|----------|
| Student Intro/Syllabus and Academic Dishonesty Quiz/ and Pre-Assessment Quiz | 8/24     |
| Unit 1: 1/2  | 9/4      |
| Unit 2: 3/4/5  | 9/18     |
| Unit 3: 6/7/10 and 9   | 10/9     |
| Unit 4: 11<br>Midterm Exam<br>Chapter 14 (not included in midterm)           | 10/23    |
| Unit 5: 12/13  | 11/6     |
| Unit 6: 15/16/18   | 11/20    |
| Unit 7: 17 and 19-21   | 12/4     |
| Final Exam   | 12/11    |

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

Learning Outcome 1: Applies the scientific methods of inquiry.

Performance Indicator 1: Utilizes the scientific process to solve problems.

### Relationship to Campus Focus:

- 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 both lecture and lab within this online course.

- Late assignments, of all types, are not accepted. The timeline given to complete materials is adequate. Please check Blackboard often and make note of dates presented in class.
- Do not leave work until the last minute. This course will require good time management skills.
- Technology issues that may arise are not excuse an excuse for late work. I should not receive an e-mail the night an assignment is due stating a tech issue that you can't get fixed. These issues if presented early enough can be fixed prior to a deadline.
- Lab Handout/Report Turn In: Your lab work should be unique to you. Identical lab handouts/reports/screenshots will not be accepted.
- Assignments are not accepted via e-mail. Please attach all required materials at ONE time to the assignment upload area and then submit. You can only submit once. When you submit, you are stating this is my final material.

#### 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.

#### Disabilities or Special Needs:

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services. This should be completed as early as possible within the semester.

#### 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.