

Oglala Lakota College
Course Syllabus Fall 2011

Course Name & Number

Introduction to Biology I Lab
Bio 151 – 1 credit

Instructor

Merle “Misty” Brave
c/o Oglala Lakota College
490 Piya Wiconi Road
Box 490
Kyle, SD 57752

Home: 605-685-1194
Work: 605-455-6002
E-mail mbrave@olc.edu
Cell: 605-685-4098

Classroom location and hours

Tuesday 5 PM-7PM He Sapa College Center and Wednesday 9AM-11AM Pine Ridge College Center

Office Hours

- 1 hour after class ends
- You may also arrange other times at Piya Wiconi on Fridays or by other arrangement

Course Description

This laboratory covers use of the microscope and other elementary lab equipment. Students will conduct experiments that demonstrate principles discussed in lecture. Slides of structure and organisms, as well as preserved specimens, will be used to illustrate comparative morphology and function in plants and animals.

Required materials

A three ringed binder or notebook with lined and graph paper to put all lab materials in. The binder should contain lined and graph paper.

Instructional Method

Lab work and the oral presentation of a scientific investigation will be used in this course.

Course Rationale

This course will fulfill some of the coursework required for the Natural Science, Natural Resources or Life Science degree.

Course objectives

Discipline/Department Objectives/Outcomes

Tribal: Provide curriculum and academic experiences that infuse new knowledge to our stakeholders and to create new training opportunities for existing professionals in math and science.

Community: Offer formal and informal learning opportunities for students and community members to positively influence their beliefs regarding science and math.

Cultural: Create an environment that supports, encourages, and respects Lakota values in all aspects of our academic, research, and outreach efforts.

Academic: Establish a foundation of academic excellence in Science, Technology, Engineering, and Mathematics.

Instructor Objectives/Outcomes

- Develop lab skills that align with necessary skills needed for scientific research.
- Learn how to keep accurate data records of laboratory work
- Develop and present, orally and in exhibit format, a biological investigation that uses the scientific method of problem solving.

Evaluation

Midterm & Final	40%	90-100% =	A
Attendance	10%	80-89% =	B
Lab Binder/notebook	50%	70-79% =	C
		60- 69% =	D
		< 59% =	F

Midterm & Final – Students will be given two hypothetical research problems/scenarios in which they will develop a scientific research plan.

Attendance – Attendance is important for all classes! You will receive 5 points for every class attended; 2 for every excused absence. You must contact me, the college center director or counselors, in order to receive an excused absence. Make sure you advise your center director or counselors to let me know of your absence. Zero points will be added for every unexcused absence. **Only excused absences can be made up.**

Lab work is very hard for you and for me to make-up. You must let me know by Thursday noon of the week you miss if you wish to make the lab up. **The lab will be made up the following Friday in Pine Ridge at 1:00PM only. Lab make ups will be dependent on my availability.**

Lab binders/notebook - They are a place for you to keep all data collected. The binders are important for you to gain organizational skills as well as a place to keep all records collected in your lab experience. Lab binders will be collected and scored while you are taking your midterm and final.

Course Policies

Attendance

Students are required to attend classes regularly. Instructors will submit attendance on-line weekly to the end of the semester.

- If a student wishes to be excused from a class, it is the student's responsibility to clear the absence with the instructor. At that time the student must arrange for a make-up assignment. However, an excused absence is the same as an absence until the student has completed work equivalent to being in class within one week of the absence. Once the make-up assignment is completed, the instructor will then change the absent to present depending on the circumstance and quality of work. This will apply to no more than two absences.
- A student may be dropped from a course after three consecutive absences and will be dropped by the Registrar after five total absences.
- There are **NO** reinstatements and **NO** exceptions for students who are dropped for five absences.

Tardiness

In formulating this policy it is understood that unique problems exist for both students and faculty due to the decentralized nature of OLC. Since classes meet only once per week, it is important that they be held - even if they begin late.

- Generally speaking, if an instructor is going to be late getting to a college center for a class, the center staff should always be notified. The following policy applies to cases where this has not been done:

If an instructor is late for a class, students must wait for one-half hour. After this time, the class will be considered cancelled for that week and must be made up.

- A student shall be considered tardy for class, if he/she arrives late for class, but during the first hour of the class. A student arriving later than the first hour they may be marked absent. This policy will not interfere with the instructor's prerogative to grade for class participation.
- In the event that no students appear for class at the scheduled starting time, the instructor should wait at least one-half hour before deciding to cancel the class.
- All cancelled classes must be made up.

Withdrawal

If you decide to not finish this class, it is the student's responsibility to make sure you are officially dropped from the class. If you do not drop yourself, you will receive your grade for work the amount of work completed.

Incomplete

If you need more time to complete the course, it is the student's responsibility to make arrangements with the instructor to file for an incomplete. This will include getting the necessary incomplete forms with all the necessary signatures.

An "incomplete" grade held beyond the deadline requires approval by the Registrar, who shall consider the continuing availability of the instructor; the responsibility of the student involved' and the cause for the incomplete.

In such cases where the instructor is not available the appropriate department chairperson will utilize a document called the "incomplete contract" and the chairperson will assign a letter grade to the student, if possible.

An incomplete grade is given only when the instructor feels that special circumstances warrant it. In addition to the faculty providing all information necessary to determine an appropriate grade for the student, the student with the instructor and department chairperson must sign a contract. Unless stated in the contract, any incomplete grade must be made up within one calendar year.

Academic dishonesty

Plagiarism (i.e. passing off another author's work as your own) will not be tolerated. Academic dishonesty is the taking of an examination or the preparation of papers for credit wherein the student knowingly represents the work of another as his/her own; and/or knowingly breaks stated examination rules. A student may be expelled and barred from further classes upon proof in a hearing set up by the Vice President for Instruction.

Academic Freedom

The academic community is committed to education that looks beyond the narrow confines of the present. Education must initiate the challenge to old and new ideas. It must seek to develop the habit of free inquiry and investigation.

Academic freedom is the absence of restrictions placed upon the spirit of investigation, free inquiry and open discussion. In this spirit, the instructor exercises a professional judgment to select and interpret ideas, and the student has the right to challenge ideas and interpretations.

Student Discipline

Rights

Students at Oglala Lakota College have the right to the highest quality education possible and to a fair and Just treatment by all departments of this college. Student's records and transcripts are confidential. Students have the right to a timely and accurate financial statement and billing.

Students are to be treated with respect and to be fairly graded. Students can participate in the governance of OLC by active involvement in their local student organization and boards, Piya Wiconi Okolakiciye and may visit any College Board meetings. Students have the right to appeal any actions against them through the grievance procedure outlined in the policy manual.

OLC students will abide by the standards of conduct while on college premises. Every student has the right to a safe learning environment. To ensure this safety, OLC applies the following as acts of misconduct subject to disciplinary action:

- Any actual or threatened physical violence
- Gross disorderly conduct
- Verbal abuse or harassment
- Vandalism of OLC premises
- Attending classes under the influence of alcohol or drugs
- Failure to properly supervise children on college premises
- Any other student conduct that causes a disruption in classes or business transactions on college Premises

ADA Statement

If you have a disability that interferes with your ability to learn and in need of assistance please contact the OLC Coordinator of Support Services at 455-6040 See OLC Policy 85-600 for further details.

Lakota Perspective:

This course stresses **Wolakotakiciapi** of “learning Lakota ways of life in the community”. Introducing Lakota perspective is as much a responsibility of the student as the instructor. Class interaction is important. Using the virtues of respect, wisdom, generosity, responsibility, integrity, fortitude and courage will be beneficial for all classmates and the instructor.

Disclaimer

Information contained in the syllabus and topical content developed for Introduction to Biology I Lab (Bio 151) class was, to the best knowledge of the instructor correct and complete when distributed for use at the beginning of the semester. However, the syllabus should not be considered a contract between Oglala Lakota College and any student. The instructor reserves the right to make changes in course content or instructional technique without notice or obligation.

Topical Content

Week One Aug 30 & 31

What is data collection?

Week Two Sept 6 & 7

Reaction Time – Lab Report

Week Three Sept 13 & 14

Scientific Method

Week Four Sept 20 & 21

Microscopy

Week Five Sept 27 & 28

Measurement

Week Six Oct 4 & 5

Set up “How many decomposers in a gram of soil?” – Lab report
Structure and Function of Living Cells

Week Seven Oct 11 & 12

Macromolecules and You: Food and Diet Analysis

Week Eight Oct 18 & 19

Midterm

Week Nine Oct 25 & 26

Week Ten Nov 1 & 2

Week Eleven Nov 8 & 9

Set up or do experiment for oral presentation

Week Twelve Nov 15 & 16

Review data – organize powerpoint

Week Thirteen Nov 22 & 23

Oral powerpoint practice

Week Fourteen Nov 29 & 30

Oral Presentations

Week Fifteen Dec 6 & 7

Final