

OGLALA LAKOTA COLLEGE
COURSE SYLLABUS & ADMINISTRATION
Spring 2014

Rebuilding the Lakota Nation through Education
Wounspe Ihuniyan Hci Lakota Oyate Kin Akta Ic'icakagapi Kte lo

Name of Course: Basic Microbiology

Course Number: Bio 204

Department: Math, Science and Technology

Credit Hours: Topa

Location: Nursing Department

Time & Day: M W 1-3

Instructor's Name: Ann Krejci

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Office: room 110 Nursing Department

Office Hours: before and after class
and by appointment

Course Description (Wounspe Oyakapi): A survey course of bacteriology and immunology for allied health students. Emphasis is on bacterial anatomy, physiology and genetics; immune response and medical applications. The laboratory* demonstrates common clinical procedures involved in the isolation and identification of the bacteria. 4 credits (2013-14 catalog)

Prerequisites: Bio 153, Chem 113 or above

Required Text and Materials: Tortora, Funke & Case (2013). Microbiology: An introduction. 11th Edition. Boston : Pearson.

Course Goal: The goal of Basic Microbiology is to familiarize students with microbes and to understand their importance to human health as well as to the greater world.

Course Competencies and Learning Objectives (Wounspe Taku Unspepi Kte Kin He Le E): Upon completion of this course students will be able to:

- Compare and contrast prokaryotic and eukaryotic cell structures
- Analyze and critique the history of microbiology, microbes and their impact on human welfare
- Understand and analyze basic scientific method
- Explain the structure and physiology of bacteria, fungi and viruses
- Analyze the current classification of microbes
- Recognize how the identification of microbes, by appropriate tests, is accomplished
- Analyze the control of microbial growth through various antimicrobial agents
- Obtain skills for the competent use of the compound light microscope; practice culture technique; execute routine staining procedure

Assessment: Bio 204, Basic Microbiology, is assessed through such Nursing Department exams as the NCLEX RN (National Council Licensure Examination). Additional assessment of this course may be conducted by the instructor.

Instructional Methodology: This course will be taught utilizing the lecture-discussion format. Although the catalog description* lists laboratory work, there is no formal laboratory for Bio 204. When possible, we will incorporate laboratory work, case studies, and cooperative learning (team building).

Course Rationale: This course exists to assist students in the basic knowledge of microbes and human immunology and will provide you with a foundation of microbiology. This course is designed for and intended for the sophomore level.

Homework: Each student should expect to spend two (nunpa) to three (yamni) hours out of class on reading and homework assignments each week, for every hour of class time (each credit hour), in order to perform satisfactorily. Therefore, if a course is three (yamni) credit hours you should spend approximately six (sakpe) hours outside of the course room on required readings and homework. However, every student differs in their individual skills, educational background, experience, capability and personal goals; so the amount of time you must dedicate to out of class work can vary significantly from this national average.

Reading Load: Students should expect to read 1 chapter from the text each week, in addition to scientific literature in topic-specific areas.

Type & Amount of Writing Load: Students are expected to write and communicate on exams, homework and will create documents to share with colleagues.

Lakota Perspective Provided Through: This course stresses **Wolakotakiciapi** of “learning Lakota ways of life in the community”. This course is based on the values of mutual respect and generosity (woohola na wochantognakapi), seeking to advance each individual’s knowledge through their continuing hard work (fortitude- wowalitake) and willingness to learn new information and viewpoints, as well as to demonstrate it, by speaking in front of the group (bravery-woohitike); all undertaken in an environment of complete truthfulness, trust, integrity and humility. We will do this by embracing the teaching of our ancestors as we learn new ways. (Wausnpe wicakiyapi ki iglutanyan ihani unpi kun hena itan wausnpe tokeca uha ayin kte.)

Successful learning in this class requires mutual respect and a great deal of respect for what we have yet to learn. Respect for our classroom includes avoiding interruptions such as use of cell/smart phones. If you have an emergency situation and must have your phone on during class, please speak with me.

Evaluation and Grading: There will be exams that may include essay-type questions, homework and presentations as well as written laboratory exercises.

Hour Exams (total)	approx. 500 points
Exam-based homework	approx. 350 points
Creative activity	100 points
Comprehensive Final	200 points

Grading Successful completion of Biology 204 (a score of “C” or higher) is required for the nursing program, and this course is scored according to the nursing department’s grading system. Your final grade for this course will be generated from adding up points from all the graded work that has been assigned.

A	100 – 94
B	93 – 87
C	86 - 80
D	79 - 73
F	73 and below

College Policy on Grading and Change of Grades:

http://www.olc.edu/~jchasinghawk/registrar/docs/student_handbook.pdf see pages 10 and 11

W = Withdrawal = A student may withdraw from a course by filling out a Drop Card to be recorded by the Registrar. The student must sign this form if you drop yourself. A Drop Card may/can be filled out and signed by a counselor/instructor for lack of attendance.

Course Requirements, Expectations or Students: This class meets twice a week, for two hour sessions each period. The student is entirely responsible for any missed materials; I DO NOT GIVE OUT MY NOTES.

- I will allow you two working make ups. A working make up means you study anatomy for two solid hours (this can include recopying notes); this must be documented for me to accept it.
- You must complete a working make up within a week of your absence.

- In case of weather-related cancellations, additional working makeups may be necessary.
- You must contact me in regard to any absence (email is pretty reliable).
- You cannot take tests late; exams are given out as homework as soon as an exam is completed. A missed exam will not be made up.
- Your homework assignments must be turned in AT THE BEGINNING OF THE CLASS PERIOD if you want me to accept it.
- In the rare occasion that I do accept late homework, you will lose percentages of the worth of the homework. For example, if work is turned in at the end of the period (IF I accept it) you will lose 10%.
- If the Instructor is not present at the beginning of the class, and the College Center Staff has not heard from the Instructor, you should wait at least 30 minutes past the normal start-time and then if the Instructor has still not arrived, you may leave.

Attendance and Tardiness

http://www.oll.edu/~jchasinghawk/registrar/docs/student_handbook.pdf see pages 7 and 8

Policies on Academic Honesty

http://www.oll.edu/~jchasinghawk/registrar/docs/student_handbook.pdf see page 46

Standards of Conduct Policy

http://www.oll.edu/~jchasinghawk/registrar/docs/student_handbook.pdf see page 38

ADA Policy

http://www.oll.edu/~jchasinghawk/registrar/docs/student_handbook.pdf see pages 37 and 38

Electronic Information Resources Acceptable Use Guidelines

http://www.oll.edu/~jchasinghawk/registrar/docs/student_handbook.pdf see page 41-46

Honesty

You are encouraged to work together, especially if you encounter a problem. However, you should ensure that YOU personally can do each and every problem. Furthermore, the work you turn in must be your own.

Never cheat on homework, quizzes or exams. In the case that a student turns in work that is demonstrably in violation of this policy, the student(s) involved will receive a zero for the assignment, and an academic dishonesty report will be filed with the VP of Academic Affairs. Multiple or extensive violations will result in greater penalties, up to receiving an immediate F for the class.

Electronic Device Policy

Turn off your mobile device before class starts—Not on vibrate mode, etc., but OFF or on a setting that does not notify you of incoming messages. You will have a 10 minute break during class and that is the appropriate time to check for messages.

- No text messaging in class. No headphones. Violators will be excused from class for the day. Repeat offenders may be dropped from the course.
- No other use of any other electronic/computer media is allowed during class time.
- If you have an emergency and need to monitor your incoming messages, tell me what is going on and why so we can work out something acceptable that respects the rights of others to a learning environment.

Department Specifics: See grading scale!

TOPICAL CONTENT

<i>Date</i>	<i>Objectives by Chapter</i>	<i>Assignments</i>
Oko wanci week of 1/20/13	Classifications	Read Chapter 1
Oko nunpa Week of Jan 27	Functional anatomy of prokaryotic and eukaryotic cells History of microbiology, microbes and human welfare	Read Chapter 4 (Chap. 1)
Oko yamni Week of Feb 3	Microscopes and Stains	Read Chapter 3 Exam 1 Monday/Homework assigned
Oko topa Week of Feb 10	Microbial Metabolism	Homework due at beginning of class Read Chapter 5
Oko zaptan Week of Feb 17	Microbial Growth and Control of growth	Read Chapters 6 & 7
Oko šakpe Week of Feb 24	Microbial Genetics: DNA and how it works; mutation; Transformation and recombination; evolution	Read Chapter 8 Exam 2 Monday/Hwk assigned
Oko šakowin Week of March 3	Microbial Genetics: Biotechnology (recombinant DNA, applications)	Homework Due Read Chapter 9
Oko šaglohan Week of March 10	Microorganism Classifications * Week of March 17 is Spring Break*	Read Chapter 10, 11, 12
Oko nappinyunka Week of March 24	Viruses, viroids and prions	Read Chapter 13 Exam 3 Monday/Hwk assigned
Oko wikcemna Week of March 31	Disease and Epidemiology	Homework Due Read Chapter 14
Oko ake wanci Week of April 7	Pathogenicity	Read Chapter 15
Oko ake nunpa Week of April 14	Innate immunity	Read Chapter 16 Exam 4 Monday/Hwk assigned
Oko ake yamni Week of April 21	Adaptive Immunity	Homework due Chapter 17
Oko ake topa Week of April 28	Finish Immunity and Immune system	Chapter 16, 17,18
Oko ake zaptan Week of May 5	Antimicrobial Drugs	Chapter 20 Exam 5 Monday/Hwk assigned
Oko ake šakpe Week of May 12	FINAL for this course is scheduled for Monday May 12 at regular class time. Please allow yourself up to 4 hours.	FINAL MONDAY May 12, 1 p.m.

Disclaimer: Information contained in this syllabus was, to the best knowledge of the instructor, considered correct and complete when distributed for use at the beginning of the semester. However, this 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 techniques without notice or obligation. Students will be informed of any such changes. Additional student rights and responsibilities are outlined in the Student Handbook.

http://www.olc.edu/~wwhitedress/studentservices/Docs/OLC_Handbook.pdf

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