

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: Historical Geology

Course Number: Geol 143

Department: Math, Science, & Technology

Credit Hours: 3 (yamni)

Location: pictel between Pahin Sinte and He Sapa centers

Time & Day: Monday 1 – 4 pm

Instructor: Dr. Hannan E. LaGarry

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Office Hours: Mon 12:00 -1:00 CC
Fri 1-4 PW PW

Course Description (Wounspe Oyakapi): This course surveys the geological history of Earth, with special emphasis on the geological history of the Black Hills and the Pine Ridge Reservation. Topics will include 1) the history, philosophy, and methods of geology as an historical science, 2) the origins and evolution of life on Earth as shown by the fossil record, and 3) the origins and history of the Black Hills and badlands. Field trips to the badlands will complement topics covered in lecture.

Prerequisites: None (but see expectations below)

Required Text and Materials: Reading materials for this class will be found on the world-wide web at <http://www.palaeos.com/index>

Course Goal: Students will gain a better understanding of the physical and natural world by understanding geologic time.

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

1. Explain the scientific method as applied to geological evidence;
2. Describe in general terms the history and philosophy of historical science;
3. Describe in general terms the history of life on Earth as demonstrated by the fossil record;
4. Interpret in general terms the geological history of the Black Hills and badlands.

This course meets the following OLC general education learning outcome goals:

- Goal 1: Outcome 1, Outcome 2;
- Goal 2: Outcome 1;
- Goal 4: Outcome 1, Outcome 4;
- Goal 6: Outcome 2.

Assessment: The course will be assessed using four cumulative exams.

Instructional Methodology: The course will be taught via polycom between Pahin Sinte and He Sapa college centers. Weekly instruction includes topical lectures and open-forum-discussions. Field trips to the badlands will reinforce classroom concepts.

Course Rationale: This course is a core requirement for the Earth Science emphasis within the Bachelor of Natural Sciences degree. Historical geology provides the student with knowledge of Earth's history, which is necessary to succeed in a baccalaureate degree in Earth Science and graduate study in geology..

Homework: Each student should expect to spend two (nunpa) to three (yamni) hours out of class on reading assignments each week for every hour of class time (each credit hour) in order to be successful. Therefore, if a course is three (yamni) credit hours you should spend approximately six (sakpe) hours outside of the course room on required readings. 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 are expected to read three (yamni) textbook chapter per week or its equivalent.

Type & Amount of Writing Load: Essay questions on exams require answering questions in complete sentences. One field report write-us will be of three to five pages

Lakota Perspective Provided Through: This course stresses **Wolakolakiciapi** 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 truthfulness, trust, integrity and humility. We will do this by embracing the teaching of our ancestors as we learn new ways. (Waunspe wicakiyapi ki iglutanyan ihani unpi kun hena itan waunspe tokeca uha ayin kte.)

Evaluation and Grading: Student performance will be evaluated with four cumulative examinations. Students will also be required to participate in at least one, possibly two all-day field trips scheduled on Fridays, each in lieu of the weekly lecture.

Cumulative exams	80% of Final Grade
Open-forum discussion	20% of Final Grade

A = Superior Quality Work = Demonstrated concept mastery by scoring 90% or better.

B = Good Quality Work = Demonstrated concept mastery by scoring 80-89%.

C = Satisfactory Quality Work = Demonstrated concept mastery by scoring 70-79%.

D = Marginal Quality Work = Demonstrated weak concept mastery by scoring 60-69%

F = Demonstrated concept mastery below the acceptable mark of 59%, which is well below what may be required in the business world.

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.

College Policy on Grading and Change of Grades:

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

Course Requirements, Expectations or Students: Because OLC offers classes in three-hour blocks once per week, (for everyone's travel convenience), if you are absent from one OLC class session, it's like missing three classes at another college. (See student handbook). You are expected to participate in class discussion; this provides evidence of your interest in and preparation for the class. It also helps gauge the effectiveness of the instruction and everyone's level of comprehension of the material presented. Most importantly, fellow class members benefit from your opinions and insights; in addition, the questions you ask may be about the same topic with which other students are having difficulty, so by helping yourself you also help them.

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

TOPICAL CONTENT		
<i>Date</i>	<i>Objectives by Topic</i>	<i>Assignments</i>
Oko Wanci	Introduction to Historical Geology, science as a Way of Knowing, the scientific method, and science as a process	Preview the website www.palaeos.com/index
Oko Nunpa	The Universe and Solar System, the formation of the Earth and moon, and the distribution of elements in the Solar System	web pages 1-3
Oko Yamni	Early theories on the formation of the Earth and the fossil record, radiometric dating and the geological time scale	web pages 4-6
Oko Topa	Fossilization and the fossil record, mutation and variation, the Precambrian fossil record, the Eocambrian, and the Cambrian Explosion	web pages 7-9
Oko Zaptan	Review Cumulative Exam 1	web pages 10-12
Oko Sakpe	Life of the Paleozoic and Mesozoic Eras	web pages 13-15
Oko Sakowin	Life of the Cenozoic Era and climate change	web pages 16-18
Oko Saglogan	Review Cumulative Midterm Exam	web pages 19-21
Oko Napcinyunka	Geological history of the Black Hills and Badlands I	web pages 22-24
Oko Wikcemna	Geological history of the Black Hills and Badlands II	web pages 25-27
Oko Ake Wanci	Fossil Record of the South Dakota Badlands I	web pages 28-30
Oko Ake Nunpa	Fossil record of the South Dakota Badlands II Cumulative Exam 3	
Oko Ake Yamni	Field trip to Red Shirt Table/Battle Creek	Complete a field trip report

Oko Ake Topa	(Time and weather permitting) Field trip to Badlands National Park or review	Complete a field trip report
Oko Ake Zaptan	Review Cumulative Final Exam	

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/student-services/Docs/OLC_Handbook.pdf

