



Your University of Choice

LAB SYLLABUS

Term: Fall 2016

Earth Science & Geology (GEO 110)

Instructor Information:	
Instructor Name	Dr. Ahmed Lakhani
Office Number:	Room 333
Phone Number:	219-473-4275
Email:	alakhani@ccsj.edu
Other Contact:	
Hours Available:	office Hr. will be available outside my office (333) and will be posted on the Blackboard (BB)
Instructor Background: B.S. in Biochemistry & Minor in Chemistry; University of Illinois at Urbana-Champaign. Ph.D. University of Illinois at Chicago (Physical Chemistry 2011). Research Interest: Structures Elucidation of Bio system, optical Spectroscopy	

Course Information:	
Course Time:	Lecture: Monday & Wednesday; 8:30 to 10:00 am Lab: Monday; 10:15 to 11:45 am
Classroom:	Room 336 Lab: 336
Prerequisites:	None
Textbooks:	An Introduction to Physical Science by Shipman, Wilson, and Higgins
Course Objectives: The objective of this course is to instill in the student an appreciation for the physical universe in which they live, and describe the physical universe in a logical and progressive way in order to prepare students for a following course in sciences. It is the goal of this course to integrate the material in such a way as to demonstrate to the student that all areas of science are interrelated and interdependent and provide some hands-on experience with the technique of science, allowing the student first-hand knowledge of how science is done. After the course, a successful student should be able to either discuss, identify or describe some specific topic such as the scientific	

method of investigation, the history of science, Place and Time, the formation of the universe, and our solar system, Geology, and continuing changes on the earth (e.g. plate tectonics) and the atmospheric cycles.

Course Description:

This course is designed to introduce students to the concepts and practical applications of the physical sciences, so that the student will become an informed citizen in an increasingly science and technology based society. Specific themes focused on will include the scientific method, history of science, the formation of the earth and universe. There will be several demonstrations and/or student experiments during the semester. Ethical and moral considerations will be discussed where appropriate. This course requires substantial writing and reading.

Learning Strategies:

Facilitated Learning, Student Centered Learning, Collaborative Learning, and Lectures

Calculator:

**You will need a scientific calculator. The calculator on your phone does not count. The calculator does not need to be expensive. For example, a Texas Instruments TI-30X II will suffice (\$10 at a big box store)

Course grading and Exams: Final grades are determined from the total points acquired from exams, quizzes, lab reports, and homework. The number of points possible is shown below:

Graded Assignment	Points possible
~8 Lab performance (@ 10 points each)	80 points
~8 Homework Assignments (80 pt. max)	80 points
~8 quizzes (@ 10 points each)	80 points
2 Exams (@ 100 points each)	200 points
Final comprehensive exam	200 points
Total	640 points

In-Class Quizzes: There will be approximately 8 – 10 (points will be adjusted accordingly) quizzes, In an effort to engage the class during the lecture period, each student will be expected to participate in class. This will be accomplished both by in-class quizzing and each student being called on to answer questions during the lecture.

Homework Assignments: There will be approximately 8 – 12 (points will be adjusted accordingly) HW (Connect McGraw), Each student will be expected to solve the assigned homework problems on his/her own time. Some of the homework problems will be used as examples in class; and, additional practice problems will be distributed throughout the semester to accommodate additional support. Students should come to the office and ask for help if there is a need for assistance in solving problems assignments.

Exams: There will be 2 hr. exams and 1 final exam during the semester. Each exam will be a closed book exam. No notes or equation cards/sheets will be allowed. Additionally, *programmable calculators* will NOT be allowed, this rule will be strictly enforced. Each student is responsible for pre-approving his or her calculator with the instructor **BEFORE** each exam. Each exam will count toward your overall course grade.

Calculators: A scientific calculator, with log functions, is required for the course. Calculators may not be shared during tests and quizzes. **CELLULAR PHONES or iPADS** are not acceptable substitutes and are prohibited.

Laboratory:

There will be approximately 8 -12 laboratory experimental (points will adjusted accordingly) reports will be required for this course. Laboratory grades will be based on the submitted, individually prepared, lab reports, performance of practice exercises, and participation. Laboratory reports are due at the beginning of the next scheduled formal lab. Late lab report submissions will not be accepted. A style sheet for lab report requirements and format is included with this syllabus. Lab information packets will typically be distributed one class day before the lab. Students must read the lab handouts and be familiar with the intention and basics of the experiment prior to performing the lab. Missed labs can be made up in an Open Lab towards the end of the semester. **A maximum of three (3) labs can be made up in this manner. PLEASE NOTE: All experimental data of completed work must have the instructor-initial signature prior to leaving the lab. This is required for the student to obtain full credit for the lab.**

Policies and Procedures	
Class Policy on Attendance:	Attendance is mandatory. Four (4) unexcused absences will result in an administrative withdrawn from the course.
Class Policy on Electronic Devices	<p>As a matter of courtesy, cell phones are not part of this course. Repeatedly checking text messages, during class reduces your ability to be engaged in the learning environment that faculty have worked so hard to create for you. The science faculty will address electronic device use as follows:</p> <p style="text-align: center;">Occurrence</p> <ul style="list-style-type: none"> • 1st – Student is given a verbal warning. • 2nd - Student is instructed to leave the classroom. The student cannot return to class until they have met with the professor. • 3rd - Student is instructed to leave the classroom. The student can return to class until they have meet with the V.P. of Academic Affairs. <p style="text-align: center;"><i>Things can and do happen. If someone really needs to reach you while you are in class, please inform the professor at the beginning of class. You can set your device to "vibrate" and answer your phone call in the hallway.</i></p>
Class Participation:	Your participation is expected and required. You are responsible for doing the reading in advance, and taking an active role in class activities and discussion.
Statement of Plagiarism:	<p>If an instructor or other Calumet College of St. Joseph personnel find that a student has plagiarized or been involved in another form of academic dishonesty, the instructor or other personnel may elect to bring the matter up for judicial review. The maximum penalty for any form of academic dishonesty is dismissal from the College. The procedures for judicial review are listed under the section of CCSJ handbook that addresses student grievances.</p> <p>PLEASE NOTE: All papers can and may be submitted for checks on plagiarism from the Internet/Electronic sources/Databases.</p>

<p>Citation Guidelines:</p>	<p>Calumet College of St. Joseph uses citation guidelines, generally MLA or APA format, to document sources quoted or paraphrased in student papers. Check the syllabus for <u>each</u> course to see what <u>each</u> instructor requires. The Library has reference copies of each manual; the Follett has copies for sale when required by the instructor. In addition, there are brief MLA and APA checklists in your spiral "Student Handbook and Planner" and on the Library website and literature rack. These texts show how to cite references from many sources, including electronic media, as well as how to space and indent the "Works Cited" and "References" pages respectively. EBSCO and ProQuest articles provide both formats for you to copy and paste. Proper documentation avoids plagiarism.</p>
<p>Withdrawal from Classes Policy:</p>	<p>After the last day established for class changes has passed (see College calendar), students may withdraw from a course in which they are registered and wish to discontinue. A written request detailing the reason(s) for the withdrawal must be completed with the Office of Academic Advising and filed with the Registrar. The Office of Academic Advising must receive written request for withdrawal by the last day of classes prior to the final examination dates specified in the catalogue. Written requests should be submitted in person or, when an in-person visit is not possible, may be mailed to the Office of Academic Advising, emailed, or faxed to 219-473-4336. Students are to make note of the refund schedule when withdrawing from courses. If the request requires instructor approval per the College calendar, it must be forwarded to the faculty member, who makes the final determination to accept or deny the request.</p> <p>If the request is honored by the faculty member, the student will receive notification of official withdrawal from the Registrar after meeting or speaking with a member from Academic Advising, Financial Aid and Athletics (if applicable). These departments will notify the student of academic, financial, and athletic eligibility effects of a possible withdrawal.</p> <p>If the request is denied by the faculty member, the notification will indicate why the withdrawal is disallowed. Please note that if the request does not require instructor approval, the student must still meet or speak with a member from Academic Advising, Financial Aid and Athletics (if applicable) before the withdrawal will be processed.</p> <p>An official withdrawal is recorded as a "W" grade on the student's transcript. Discontinuing a course without a written</p>

	<p>request for withdrawal automatically incurs an "FW" grade for the course (see Refund Schedule). Failure to Withdraw (FW) is indicated when the student does not complete withdrawal paperwork with the Office of Academic Advising nor does the student notify the instructor of their intent to withdraw due to an illness, accident, grievous personal loss, or other circumstances beyond the student's control. <u>This grade is submitted by the instructor at the end of term.</u></p>
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Resources	
Student Success Center:	<p>The Student Success Center supports Calumet College of St. Joseph students through an interactive learning experience. Students work with faculty tutors to develop course competencies and study skills such as time management, test preparation, and note taking. In addition, students are provided with tutoring support to help pass courses, to improve grade point average, and to promote continuing education and career advancement. Tutors have a specific charge: to help students learn how to master specific subject matter and to develop effective learning skills. The Student Success Center is open to all students at Calumet College of St. Joseph at no charge and is available to support academic courses at the introductory and advanced levels. For assistance, please contact the Student Success Center at 219 473-4287 or stop by the Library.</p>
Disability Services:	<p>Disability Services strives to meet the needs of all students by providing academic services in accordance with Americans Disability Act (ADA) guidelines. Students must meet with the Coordinator of Disability Services to complete an intake form in order to request an accommodation and/or an auxiliary aid (<i>e.g., additional time for tests, note taking assistance, special testing arrangements, etc.</i>). It is the student's responsibility to contact the Academic Support Programs Office to request an accommodation at least <u>one month prior to enrollment</u> for each academic term. Students who are requesting an accommodation and/or an auxiliary aid must submit documentation from a professional health care provider to verify eligibility under Section 504 of the Rehabilitation Act of 1973 and/or the Americans with Disabilities Act of 1990. The cost of obtaining the professional verification is the responsibility of the student.</p> <p>If a student believes that he or she needs a "reasonable accommodation" of some kind because of a physical,</p>

	<p>psychological, or mental condition, he or she should contact Disabilities Services. The Coordinator will secure documentation pertinent to the disability and work with faculty and staff, if necessary, to address the matter. All questions and inquiries pertaining to disability services should be directed to the Disability Services Coordinator at 219-473-4349.</p>
<p>CCSJ Alert:</p>	<p>Calumet College of St. Joseph utilizes an emergency communications system that transmits messages via text, email, and voice platforms. In the event of an emergency, of weather related closings, or of other incidents, those students who are registered for the system shall receive incident specific message(s) notifying them of the situation. Please sign-up for this important service at any time on the College's website. Alternatively, you can register at the time you register for classes. This service requires each user to register once per academic year. Therefore, at the beginning of each academic year, please remember to re-register for the system. This can be done at: http://www.ccsj.edu/alerts/index.html.</p> <p style="text-align: center;"><u>School Closing Information:</u></p> <p><u>Internet</u> http://www.ccsj.edu</p> <p style="text-align: center;">http://www.EmergencyClosings.com Facility: Calumet College of St. Joseph Phone: 219.473.4770</p> <p><u>Radio:</u></p> <p style="text-align: center;">WAKE – 1500 AM WGN - 720 AM WIJE – 105.5 FM WLS – 890 AM WZVN – 107.1 FM WBBM NEWS RADIO 78</p> <p><u>TV Channels:</u> 2,5,7,9,32</p>

Lab Schedule

Date	Topic
Week 1	Introduction/Measurements
Week 2	Elements of Chemistry
Week 3	How Atoms Bonds and Molecules Attract
Week 4	How Chemical React
Week 5	<i>Exam 1</i>
Week 6	Compound
Week 7	Rock and Minerals
Week 8	Why Sky is Blue
Week 9	What is Green Effect
Week 10	How to make it Rain
Week 11	<i>Exam 2</i>
Week 12	Make up lab
Week 13	Spring Break
Week 14	Final

Note* The course schedule is tentative. The instructor reserves the right to change this syllabus at any time. Any changes will be announced in class in advance.