

1. COURSE IDENTIFICATION

COURSE TITLE: Chemistry of Life
COURSE NUMBER: CEM 131
CREDIT HOURS: 4.00 SECTION NUMBERS: 72
MEETING TIMES: 6:00 - 7:30 PM Mon and Wed
7:30 - 9:30 PM Mon LOCATION: Rm 111
DAYS: Monday and Wednesday

2. INSTRUCTOR INFORMATION AND COURSE MATERIALS

INSTRUCTOR: Christa Graham OFFICE: ummmmmmmmm
PHONE: 517-920-1861 (cell) E-MAIL: cg4273@gmail.com
OFFICE HOURS: By appointment

TEXT: Catalyst, the Pearson custom library for chemistry, Timberlake
CALCULATOR: A Scientific Calculator is Required
PERIODIC TABLE: SARGENT WELCH
LABORATORY MANUAL

3. COURSE DESCRIPTION & PREREQUISITES

COURSE DESCRIPTION:

Fills requirement for some non-science majors. Provides background for CEM 141 for those with no recent high school chemistry. Fundamental principles of chemistry such as states of matter, simple atomic and molecular structure, and the periodic classification of elements. The study of water emphasizes the properties of solutions and acid-base relations. Course includes a laboratory component.

Prerequisites: ENG 085* and MAT 031* or higher

This course is not an easy course. In order to be successful, students are expected to attend ***every class***. Read the text before and after class. **Work all homework problems**, and ask questions of the instructor. Expect to earn your grade in this course by working hard and learning well.

4. ASSOCIATES DEGREE OUTCOMES

Chemistry 131 supports the following Associates Degree Outcomes:

- #3 Students will demonstrate computational skills and mathematical reasoning.
- #4 Students will demonstrate scientific reasoning.

5. SAFETY PROCEDURES

Students are expected to conduct themselves in a safe manner in both the classroom and laboratory. The Laboratory Safety Contract contains more comprehensive safety guidelines.

6. ATTENDANCE POLICY

Students are expected to attend all classes. Absences while sometimes necessary are to be avoided if possible. Walking into class late is disruptive to the class. Therefore, avoid tardiness and absences if possible. If you must miss class, be sure to contact the instructor. If you cannot attend class on the day that an assignment is due, make sure that the assignment is delivered to the instructor before the next class meeting.

7. MAKE-UP AND LATE PAPER WORK PROCEDURES

Even extenuating circumstances rarely allow for make-up. To compensate for extenuating circumstances, students will be allowed to drop their two lowest quiz scores and lowest lab report from the calculation of the final grade. Late assignments will not be accepted after said assignment has been graded and returned to the rest of the class.

Students are expected to be present for all examinations. However if extraordinary circumstances occur that causes one to miss an exam, the exam grade will be recorded as the average of the other exams (not including the final exam). Any additional missed exams will receive a "zero" grade and zero grades will be included in the average calculations. If all exams are taken, the single lowest test grade will be replaced by the average of the remaining test grades.

8. GRADING PROCEDURE

HOMEWORK: All problems at the end of each section and chapter are assigned. Students who wish to do well are highly encouraged to complete those questions and ask for clarification in class on any that give them trouble.

QUIZZES: Quizzes can be of several types, On-Line, Announced In-class, and Surprise In-class Surprise quizzes may occur at anytime. On-Line Quizzes will be assigned periodically and the due date will be announced. Quizzes will be graded out of 100 points.

TESTS: Tests will be given approximately every two chapters. Dates for the tests will be announced in class. Tests will be graded out of 100 points each. Up to 10% of the material may include material from previous chapters.

FINAL EXAM: A comprehensive final exam covering the entire semester will be taken during final exam week. The final exam grade will be recorded twice and therefore is weighted as two tests in the test category.

EXTRA CREDIT: There is no such thing as extra credit. There is only credit. Do not ask about extra credit. This syllabus describes how you are to earn credit. Dedicate your time and energy to studying and developing the knowledge and skills necessary to be successful at the course objectives.

Each assignment will be graded out of points. The types of assignments will contribute to the final course grade as follows:

Quizzes/Other	20 %
Tests	60 %
Lab Reports	20 %

Grades will be assigned according to the following scale:

90% to 100%	=	4.0
85% to 89%	=	3.5
80% to 84%	=	3.0
75% to 79%	=	2.5
70% to 74%	=	2.0
65% to 69%	=	1.5
60% to 64%	=	1.0
0% to 59%	=	0.0

9. ETHICS POLICY

Consistent with JCC policy, academic dishonesty such as cheating, plagiarism etc, will not be tolerated. A first offense of academic dishonesty will result in a zero grade for the experience. A second offense will result in a zero for the course. All cases of academic dishonesty will be documented and forwarded to the Academic Dean. Students involved in disruptive behavior or dishonest scholarly practices will be dealt with in accordance to the Student Handbook.

Student behavior that is detrimental to an environment conducive to learning or the maintenance of a reasonable level of order on campus or in the classroom shall be considered disruptive conduct. Further, students exhibiting behaviors that may cause injury to themselves or others can result in removal from this course.

Academic dishonesty includes, but is not necessarily limited to taking, using, or copying another's work and submitting it as one's own, using notes on Quizzes or Quizzes, intentionally falsifying information or taking another's ideas with the intention of passing of ideas in class as one's own.

10. AVAILABLE ASSISTANCE

If you have documented disability, make sure that you make me aware ASAP so that suitable arrangements may be made. If you are experiencing difficulties with any aspect of this course, it is best if you consult the instructor. Tutoring assistance is also available in the Center for Student Success, Bert Walker Hall Room 123, and (796-8415).

11. STUDENT WORK

All Quizzes, Homework Assignments, Tests and Lab Reports will be graded and returned on a timely basis. The final exam will not be returned.

12. SYLLABUS REVISION/INSTRUCTOR PREROGATIVE

All schedules and policies contained in this document are tentative and are subject to revision at the instructor's discretion with timely notice.

13. INCOMPLETES

Consistent with JCC policy, an incomplete grade will only be issued if the student has completed the vast majority of the course, is already passing the course after the withdraw deadline, and is unable to complete the course due to an extenuating circumstance. If a grade of incomplete is issued, all grades/scores earned to that date will be used in calculating the course grade.

14. WITHDRAW

The last day to withdraw from a class for Fall 2013 is _____.

15. Activity Schedule

CEM 131 Fall 2013
Lecture/Laboratory Schedule

Lab: Mon 7:30–9:30 pm

WEEK	Dates	Chapter	Lecture Topics	Laboratory
1	8/26–8/29	1	Chemistry and Measurements	Lab Safety Density and Graphing
2	9/2–9/5	2	No Class 9/2 Labor Day Holiday Energy and Matter	Specific Heat of a Metal
3	9/9–9/12	2	Energy and Matter	States of Matter and Phase Changes
4	9/16–9/19	3	Atoms and Elements Test Ch 1–3	Emission Spectra and Energy Levels
5	9/23–9/26	4	Nuclear Chemistry	Radioactivity
6	9/30–10/3	5	Compounds and Their Bonds	Nomenclature and Molecular Models
7	10/7–10/10	11	Intro to Organic Chemistry Test Ch 4,5,11	Molecular Models of Organic Compounds
8	10/14–10/17	12	Alkenes, Alkynes and Aromatic Compounds	TLC of Analgesic Tablets
9	10/21–10/24	6	Chemical Reactions and Quantities	Chemical Reactions and Equations
10	10/28–11/1	6	Chemical Reactions and Quantities Test Ch 12,6	Stoichiometry: The Formula of a Hydrate
11	11/4–11/7	7	Gases	Molar Mass of Butane
12	11/11–11/14	8	Solutions	Hardness of Water
13	11/18–11/21	9	Reaction Rates and Equilibrium	Kinetics
14	11/25–11/29	9	No Classes 11/27–11/29 Thanksgiving Break Reaction Rates and Equilibrium	Equilibrium: Le Chatelier's Principle
15	12/2–12/5	10	Acids and Bases	Acids Bases Salts and Buffers
16	12/9–12/12		Final Exam	

The above schedule is tentative and subject to change at the instructor's discretion with timely notice.