COLBY
COMMUNITY COLLEGE

CH176 – Fundamentals of Chemistry
Fall 2016 & Spring 2017
5 Credit Hours

Instructor: Robin Van Laeys
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Lecture Times: M-F 1:17-2:12 Room 107/110
Lab Times: M-F 1:17-2:12 Room 107/110
Text: *Basic Chemistry* (4th Edition) by Timberlake & Timberlake

ABOUT THIS CLASS
This is a study of the basic principles, laws and theories of chemistry, designed for those students needing five or more hours of general chemistry. Inorganic, important metallic and nonmetallic substances are covered. The course is recommended for certain students of agriculture, home economics, nursing, biology and general education.

COURSE OBJECTIVES
1. A higher level of critical and creative thinking processes
2. The ability to solve problems using a variety of techniques and methods
3. The ability to utilize the technology relevant to the learner's discipline
4. An awareness of the world around you

EXPECTED STUDENT OUTCOMES
Students will be able to:
1.) Recognize the three major subatomic particles and their general arrangements in the atom.
2.) Identify an element from its symbol and/or provide a symbol for a given element.
3.) Relate the properties of the elements to their relative positions in the periodic table.
4.) Distinguish between ionic, covalent and polar covalent compounds.
5.) Create Lewis electron-dot symbols/formulas for various elements and simple molecules.
6.) Recognize shape and determine polarity for simple molecules.
7.) Distinguish between the various classes of matter and differentiate between physical and chemical properties and changes.
8.) Calculate the formula or molecular mass of a compound.
9.) Convert between mass, moles, and number of molecules of a substance.
10.) Perform simple stoichiometric calculations.
11.) Identify and balance simple chemical reaction equations.
12.) Predict the products of simple reactions.

ATTENDANCE/MAKEUP POLICY
It is the responsibility of the student to check his/her schedule and make any adjustments through the drop/add procedure. Students must attend classes within the certification period in order to be enrolled. State law requires the withdrawal of any student who does not attend class at least one time during this period.
Students will have two instructional days to add or drop with a full refund for a full-semester or first 8-week classes. To add a class after five days, the student must first receive written approval from the Dean of Academic Affairs and then the instructor. After 15 days students will not be allowed to add a full-semester or first 8-week class.
Students may withdraw any time after this five day period and until the date published by the Registrar's Office as the last date to withdraw, in which case a W will be recorded on their transcripts. After that time a grade of W cannot be given.

COURSE MATERIALS:
Required Text: *Chemistry for Changing Times* (13th Edition) by John, Hill, Terry McCreary, and Doris Kolb. Students are expected to attend classes. However, various sports events, the judging team, etc. will require students to miss class. If a student is absent, it is his/her responsibility to obtain the notes and any assignments.

PREREQUISITES
Algebra

ASSIGNMENT POLICY
All assignments are due at class time on the due date unless other arrangements are made with the instructor prior to the due date. No Exceptions! True emergencies will be discussed.

TEST POLICY
All tests, quizzes and exams must be taken the date scheduled unless arrangements are made with the instructor prior to the test date. No Exceptions! True emergencies will be discussed.

FINAL EXAMINATION
A comprehensive final exam will be scheduled according to the final schedule and cannot be altered. Generally, the test will be (but not limited to) true and false, matching and short answer. The final will count for 25% of the final grade.

GRADING SYSTEM
90% - 100% **A**
80% - 89% **B**
70% - 79% **C**
60% - 69% **D**
59% and below **F**

ACADEMIC DISHONESTY
Colby Community College defines academic integrity as learning that leads to the development of knowledge and/or skills without any form of cheating or plagiarism. This learning requires respect for Colby's institutional values of quality, service and integrity. All Colby Community College students, faculty, staff, and administrators are responsible for upholding academic integrity.
Cheating is giving, receiving, or using unauthorized help on individual and group academic exercises such as papers, quizzes, tests, and presentations through any delivery system in any learning environment. This includes impersonating another student, sharing content without authorization, fabricating data, and altering academic documents, including records, with or without the use of personal and college electronic devices.
Plagiarism is representing or turning in someone else's work without proper citation of the source. This includes

unacknowledged paraphrase, quotation, or complete use of someone else's work in any form. It also includes citing work that is not used and taking credit for a group project without contributing to it. The following procedure will be used for students who violate the policy:

• First Offense – Student will receive a zero for the assignment and the student will be reported to the Dean of Academic Affairs.

• Second Offense – The student will be reported to the Dean of Academic Affairs and removed from the class.

• Third Offense – The student will be reported to the Dean of Academic Affairs and dismissed from the college.

Any questions about this policy may be referred to the Dean of Academic Affairs.

Access and Opportunity - Reasonable Accommodation and Institutional Standards

According to the Americans with Disabilities

Act, it is the responsibility of each student with a disability to notify the college of his/her

disability and to request accommodation. If a member of the class has a documented learning