



CHM 105: Introduction to Chemistry Summer Online, 2015

Professor: Dr. Christopher Halsey
Christopher.Halsey@westminster-mo.edu
Available via Facetime, Google Plus, and Skype
Office Location/Phone: CSC 323, 816-830-8368



Course Description: Introduction to Chemistry is a survey course intended for non-science majors. Chemical phenomena, methodology, and theory are presented in the context of public policy issues such as air and water quality, the ozone layer, global warming, acid rain, and various energy sources including nuclear energy.

Expectations: You will have six weeks over the summer term to complete what Westminster students usually take a semester to do. However, this is possible if you plan accordingly. The work in this course, therefore, amounts to a full time job in between June 2 and July 11. Progress in the course will be dictated by you and you alone – I am just here to help when you need it. On the Moodle site, will find a suggested progress schedule to make sure you have all your work completed by July 11. I expect you to reach out for help as soon as you need it so I can keep you on track.

You will interact with me exclusively through digital means. This requires a certain amount of digital literacy: from turning on your computer to taking quizzes/tests on Moodle to interacting with me in a Google Hangout. If any of these tasks are difficult, talk with me on the first day of class (see my phone number above).

General Chemistry Preparation: If you are taking this course specifically to prepare for a science major level general chemistry course, let me know before starting the course. I will recommend a different book and can tailor video and question content to prepare you better.

Required Text: *Chemistry in Context: Applying Chemistry to Society* (7th or 8th ed.), by Middlecamp, Keller, Anderson, Bentley, Cann, and Ellis. You will use this textbook every day – do not assume you can pass the course without it.

Additional Materials: In addition to the textbook, you will need a basic function scientific calculator, with logarithmic, antilog, power, and scientific notation function keys. A calculator will be needed for most quizzes and exams. Because this is an online course, you will also need a reliable internet connection and computer. Access to a webcam makes it easier for us to talk face to face.

Free Online resource: OLC (Online Learning Center, <http://www.mhhe.com/physsci/chemistry/cic/sss/>) Used for taking practice multiple choice quizzes.

Prerequisites: None.

Progress Towards Degree Requirements: This course, when taken with CHM 106, contributes to Westminster College's Tier II-A Scientific Inquiry Context requirement for the following reasons: (1) Fundamental principles of chemistry (reaction types, stoichiometry, bonding) are presented. (2) The scientific method will be discussed and applied in lecture. (3) Global public policies will be addressed as they relate to chemical principles and current research. (4) Contributions of individual scientists will be evaluated.

Students wishing to take CHM 105, but not 106, may use CHM 105 to satisfy the requirement of a second course in the Scientific Inquiry Context of Tier II.

Videos, Quizzes, and Chapter Tests: For each chapter covered, I will have one or more videos available where I discuss the chapter content. You will need to complete quizzes embedded in the video for credit. Other quizzes will also be given on Moodle for each section of the chapter which approximate the difficulty of the chapter test. Finally, there will be a test for each chapter covered. I cannot enforce not having notes in front of you while you take these assessments, but I can create questions that force you to go beyond the notes or a simple Google search. These assessments may also be timed. In essence these are open-book assessments, but you will use your notes more often as a reference than a book of answers (read: I can make the questions harder). You will run out of time if you start the assessment without having thought through the content. Also, working with a friend to study is encouraged but assessments must be taken alone. You will have individual questions for any Moodle-based assessments.

Evaluation: During the semester, eight one-hour chapter tests will be given, along with several quizzes in Moodle or embedded in videos. There will be no final exam.

Chapter Tests (8x100)	800
Video Quizzes	100
Moodle Quizzes	100
Total Points:	1000

Your letter grade will be based on the following scale. **Grade cutoffs may be lowered for the entire class at my discretion, but will not be raised.**

Grade	Percentage Cutoff	GPA Score
A	93	4.0
A-	90	3.7
B+	87	3.3
B	83	3.0
B-	80	2.7
C+	77	2.3
C	73	2.0
C-	70	1.7
D+	67	1.3
D	63	1.0
D-	60	0.7
F	0	0.0

Online Progress: **Keeping up with a regular schedule is expected.** I will email you directly if I do not think your progress is sufficient to succeed in this course.

Make-up Policy: The July 11 deadline is firm. I recommend you plan on completing your coursework before July 11 to account for any unforeseen illness or other normally excused absences.

Class Interaction: You may find the course easier if you interact with other students via Facebook or Google Hangouts. If there is interest I will create a group for that purpose. Part of the quiz grade comes from posting answers to chapter questions that will be seen and commented on by the rest of the class.

Honor Code: One of the important values mentioned in Westminster's mission statement is that of integrity. Throughout this course you are expected to follow the Westminster Honor code. *No Westminster student shall commit any act of academic dishonesty in order to advance her or his own academic performance, or to impede or advance the academic progress of others.*

College-Wide Policies and Procedures: Other college wide policies and procedures not referred to above, such as the ADA/equal access policy, the policy on harassment and discrimination, college duty policy, emergency procedures, primary and secondary safe zones for building evacuation, and safe zones for tornado or similar shelter, are to be found in Public Folders (outlook://Public Folders/All Public Folders/Offices and Services/Academic Affairs/College Policies) or the *Student Life Handbook*. Printed brochures stating these policies are available through the Academic Dean's Office as requested.

Course Credit Hour Requirement:

The following is a weekly break-down of the hours students are expected to spend on this course arranged by activity. As a three credit hour course, this satisfies the minimum required student hours (135 hours). You are expected to make room for the time required in your summer schedule. Failure to do so could cause your performance to suffer.

Week	Reading	Online Videos	Exams	Total
6/2-6/8	5	17	2	24
6/9-6/15	5	17	2	24
6/16-6/22	5	17	2	24
6/23-6/29	5	17	2	24
6/30-7/6	5	17	2	24
7/7-7/11	5	17	2	24
Total	30	102	12	144