



## CHM 105: Introduction to Chemistry Winter on the Web, 2015-16

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**Course Description:** Introduction to Chemistry is a survey course intended for non-science majors. It can also serve as a review course to prepare for the major level course sequence, CHM 114 and 124.

**Expectations:** You will have three weeks over the winter 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 Dec 6 and Jan 7.** Progress in the course will be dictated by you and you alone – I am just here to help when you need it. 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).

**Required Text:** Which textbook you buy depends on your purpose in taking this course. For non-science majors not pursuing additional chemistry classes, please purchase *Chemistry in Context: Applying Chemistry to Society*, 7<sup>th</sup> ed., by Middlecamp, Keller, Anderson, Bentley, Cann, and Ellis. For science majors wishing to prepare for CHM 114, you should purchase *Chemistry: Principles and Reactions*, 7<sup>th</sup> ed., by Masterton, Hurley and Neth (ISBN: 978-1-111-42710-8). Using either the 6<sup>th</sup>, 7<sup>th</sup> or 8<sup>th</sup> edition of either of these texts is fine with me. No matter which textbook you buy, you will use this textbook everyday – do not assume you can pass the course without it.

**Required Homework:** You will use an online homework system called Sapling. I will explain the registration process at the beginning of the course, but this service will require a \$40 fee after an initial free trial.

**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.

**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 homework on Sapling will also be given 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, timed chapter tests will be given, along with several quizzes in Moodle or embedded in videos. There will be no final exam.

Chapter Tests	600
Video Quizzes	60
<u>Sapling Homework</u>	<u>60</u>
Total Points:	720

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	<b>93</b>	<b>4.0</b>
A-	<b>90</b>	<b>3.7</b>
B+	<b>87</b>	<b>3.3</b>
B	<b>83</b>	<b>3.0</b>
B-	<b>80</b>	<b>2.7</b>
C+	<b>77</b>	<b>2.3</b>
C	<b>73</b>	<b>2.0</b>
C-	<b>70</b>	<b>1.7</b>
D+	<b>67</b>	<b>1.3</b>
D	<b>63</b>	<b>1.0</b>
D-	<b>60</b>	<b>0.7</b>
F	<b>0</b>	<b>0.0</b>

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 January 7 deadline is firm. I recommend you plan on completing your coursework before January 7 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).

<b>Week</b>	<b>Reading</b>	<b>Online Videos</b>	<b>Exams</b>	<b>Total</b>
<b>12/17-12/23</b>	10	35	3	<b>48</b>
<b>12/24-12/31</b>	10	35	3	<b>48</b>
<b>1/1-1/8</b>	10	35	3	<b>48</b>
<b>Total</b>	<b>30</b>	<b>105</b>	<b>9</b>	<b>144</b>