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| Course Department | CHEM | Course Number | 100 | Course Credit Hours | 3 |
| WNC Catalog Course Description | Introduces chemistry with emphasis on impacts on human society, environmental issues, energy sources and life processes. Includes four laboratory experiences | | Course Transferability | This course is designed to apply toward a WNC degree and/or transfer to other schools within the Nevada System of Higher Education, depending on the degree chosen and other courses completed. It may transfer to colleges and universities outside Nevada. For information about how this course can transfer and apply to your program of study, please contact a counselor. | |
| Minimum Lecture Hours per Week (16 week Semester) | Three hours of Lecture | | Minimum Lab Hours per Week (16 week Semester) | N/A | |
| Minimum Lecture Hours per Week (8 Week Semester) | Six hours of Lecture. | | Minimum Lab Hours per Week (8 week Semester) | N/A | |
| Minimum Lecture Hours per Week (3 Week Semester) | 16.25 hours of Lecture. | | Minimum Lab Hours per Week (3 week Semester) | N/A | |
| Pre-Requisite or Co-Requisite Courses (if the latter is applicable) | MATH 120 or higher | | | | |
| Faculty Comment | PERSPECTIVE: CHEM 100 is a one semester overview of elementary principles of CHEM and is about equivalent to one (1) year of high school CHEM. | | | | |
| Identify Any Risk Management Issues | Risk of minor physical injury (skin laceration) due to glass breakage; risk of minor physical injury (skin) due to the use of common mineral acids and bases; risk of serious physical injury if student fails to wear proper goggles (eyes) and lab coat (skin); risk of moderate injury if student fails to put hair up out of the way (skin); risk of moderate physical injury if student fails to wear proper foot wear (skin); risk of minor to severe physical injury due to fire/burn (Bunsen burners, pyrophoric compounds and skin). | | | | |
| Lab Safety Supplies REQUIRED | Purchased at the WNC Bookstore. ALL Students: Tyvek Lab Coat and UVEX Safety/Chemical Splash Goggles with Indirect Venting; Anatomy and Physiology Students: Nitrile Gloves (Best Price is at WalMart or An Auto Parts Store) – NO Deviations from These Items! | | | | |
| Course Topics | All students will have a basic (one semester of a non-traditionally-lab-experienced one-semester course) knowledge of chemistry; including basic concepts of atoms, molecules, chemical reactions, terminology, and their applications to human health and our environment. | | | | |

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| <p>WNC General Education Course Goals/Outcomes/Objectives</p> | <p>Upon successful completion of CHEM 100, Molecules and Life in The Modern World, (defined as a 75% course score or better) learners will be able to (GESLO = General Education Student Learning Outcome; ISLO = Institutional Student Learning Outcome):</p> <p>Describe and balance at least three different types of chemical reactions (GE #1);</p> <p>Illustrate and explain the function of subatomic particles in atoms (GE #1);</p> <p>Illustrate and explain the role chemicals play in our environment (GE #1);</p> <p>Illustrate and explain the role chemicals play in our daily lives and our health (GE #1);</p> <p>Draw conclusions with basic calculations of and from four (4) non-major's chemistry laboratory experiences (GE #1, #3).</p> |
| <p>Course Broad-Based Student Learning Outcomes</p> | <p>Students will explain general principles of chemistry.</p> <p>Students will apply chemical principles in a laboratory setting to evaluate data collection and data interpretation.</p> <p style="text-align: center;">This Section Subject to Change.</p> |
| <p>Course Specific Student Learning Outcomes/Objectives/Goals</p> | <p>In the text of each lecture "chapter" on Dr. Carman's website, clearly identified.</p> <p style="text-align: center;">To Be Uploaded in January 2018.</p> |
| <p>Student Performance/Assessment Tool[s]</p> | <p>Work Sheets, Laboratory Experiments and Exams as described below.</p> |
| <p>Minimum Studying Time Required (per day! 7 days a week!)</p> | <p>The general rule of thumb in higher academics/education for appropriate student studying time necessary for learning to occur in a college/university transfer course is 3 hours a week for every hour that a student is in lecture and/or lab. For a traditional science with 4 lab-based experiences' course, that means a minimum of 9 hours of studying outside of class each week.</p> |
| <p>Course Linkage to Academic Degree Program[s]</p> | <p style="text-align: center;">General Education Mission:</p> <p>CHEM 100 is a general education course that provides students who complete degrees and certificates with critical life skills that will benefit them in their personal and professional endeavors.</p> <p style="text-align: center;">General Education Student Learning Outcome[s]:</p> <p>See Above (General Education Course Goals/Outcomes/Objectives) Section</p> <p style="text-align: center;">Program Mission for AA/AB/AAS degree:</p> <p>CHEM 121 satisfies the A.A./A.B./A.A.S. degree missions by providing academic knowledge and skills for successful transfer students to meet higher educational goals (A.A./A.B.) and skills necessary to succeed in a chosen field of study (A.A.S.).</p> |
| <p>Lecture and Lab Experiment Source</p> | <p style="text-align: center;">http://www.drcarman.info</p> <p>Dr. Carman uses no traditional textbooks or lab books: this saves the students money and keeps information more fluid and current.</p> |

Grading Scale

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| <p>96-100% = A 91-95% = A- 87-90% = B+ 83-86% = B 79-82% = B- 75-78% = C</p> <p>Above the minimum course score of 75% is a properly prepared student.</p> <p>71-74% = D</p> <p>74% or below for the course is an improperly prepared student.</p> <p>≤ 70% = F</p> <p>cf also Section 3 of the Course Rules, lines 184-211, linked on Dr. Carman's Main Web Page (http://www.drcarman.info)</p> |
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Grade Assignment and Distribution to Required Work

| Assignment | Comment(s) (ANY Quizzes or Exams are Cumulatively Comprehensive) | Dates/Locations |
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| "BIG" Exams | | |
| Pre-Course Assessment | Canvas-based; Bring a non-programmable calculator and pencils; Dr. Carman provides scratch paper; students don't see the exam, again. | Date and Room To Be Announced |
| Post-Course Assessment | Canvas-based; Bring a non-programmable calculator and pencils; Dr. Carman provides scratch paper; students don't see the exam, again. | Date and Room To Be Announced |
| Lab Experience Theoretical Exam | Per Canvas Announcement | Date and Room To Be Announced |
| NOT so "BIG" Exams (a.m. & p.m. times used); Dr. Carman Provides and Collects the Scratch Paper | | |
| Exam/Quiz #1 | Through Week 3 Reading and Worksheets and Canvas Worksheets | Date and Room To Be Announced |
| Exam/Quiz #2 | Through Week 7 Reading and Worksheets and Canvas Worksheets | Date and Room To Be Announced |
| Exam/Quiz #3 | Through Week 11 Reading and Worksheets and Canvas Worksheets | Date and Room To Be Announced |
| Exam/Quiz #4 | Through Week 14 Reading and Worksheets and Canvas Worksheets | Date and Room To Be Announced |
| Daily Work Sheets (Web) | Linked to CHEM 100 Menu on Website | |
| Canvas Worksheets | Notification via Canvas | |
| Due diligence is the responsibility of every student. This includes late enrollers! | | |

There will be Work Sheets each week of the 15 weeks of instruction; the 16th week of the semester is exam time. The Work Sheets will be provided to the student using any or all of the following: email, Dr. Carman’s website or Canvas. **(Make sure your email address in myWNC and Canvas is working properly as there is no excuse to come empty-handed/unprepared to class or lab!)** Canvas-based worksheets are timed and have “narrow windows” for completion.

If you’ve never used Canvas, [please click here for Help](#) – also, you’ll find it of great importance to download the Canvas app onto your phone, phablet, tablet or laptop, for your [iPhone](#) and your [Android](#), if you haven’t already.

All Quizzes/exams are to be taken in the computer lab as previously indicated. You must be on time for the exams/quizzes/assessments as there is no admittance into the exam once it has begun; bring ONLY pencils and a non-programmable calculator with a jacket to the exams – leave all else in your vehicle under lock and key.

Reading assignments are posted on Dr. Carman’s website and students are expected to have completed, studied and learned the reading assignments in advance of the lecture period, as well as to have completed the worksheets per the Canvas instructions.

Student questions about the reading assignments are to be covered in office hours prior to class time, i.e., students are expected to attend office hours on a regular basis. The Work Sheets will cover the reading assignments and may be cumulative in design. Student questions while working on the Work Sheets are strongly encouraged and welcomed!

While answer keys are in Dr. Carman’s office, they will not be made available until after you’ve recorded your responses in Canvas. cf also reading and homework assignment file on Dr. Carman’s website for additional information regarding homework and Canvas. NOTE: just copying the answers won’t help your scores or your learning; nor will memorizing the problems. If you understand the concepts and the processes, you’ll do very well on the quizzes/exams – if not, you won’t.

In the case of absenteeism in either (or both) lecture and /or lab, you may not complete the quiz/exam and your score for that day is a zero (0).

Please remember that if you “W” from the course that it would be most courteous and respectful of you to contact your class/lab partner and Dr. Carman so that adjustments may be made in the classroom.

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| Lab Experiment Experiences | Due for check-off before you leave lab (this means that you will have to complete the lab questions ahead of the lab; you will take the checked over experiments with you as you leave once Dr. Carman has checked them over) – if you leave without completing the lab and accompanying questions, it’s a zero for the day. NOTE: Your lab questions and results will be entered into Canvas and graded in Canvas after you have left lab. Those files will open as per the homework files in Canvas. Keep in mind that the lab period is over at the scheduled time: plan your time accordingly as labs not completed by or before that time will receive a zero (0) for that day’s lab experiment grade. There will be one or two exceptions to the lab due dates: those will be clarified as they come up. |
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ANY Canvas testing or quizzing (this includes the in-class pre-post-test assessments/exams/quizzes) is to be done by yourself – “collaborative learning” is cheating and results in an “F” for the course. See Rules Section on Canvas.

Canvas is the official grade keeper. The format Canvas uses will determine your overall course percentage. Your course percentage will be matched against the Grading Scale on p. 3 or the curve as previously described/linked for your final course grade.