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# Chem 101 pre lab answers

Prerequisite: Satisfactory score on the Chemistry Placement Test (CPT) or a grade of "C" or higher ("C-" does not satisfy the prerequisite) in CHEM 100 taken at CSUN only. Corequisite: CHEM 101. Lab section emphasizes basic lab skills, quantitative relationships in chemistry and inorganic preparative procedures. One 3-hour lab per week. (Available for General Education, B3 Science Laboratory Activity requirement provided CHEM 101 is also completed.) CHEM 010 Academic Based Community Service-Chemistry Outreach CHEM 012 Environmental Chemistry CHEM 022 Structural Biology CHEM 025 Freshman Seminar: From Alchemy to Nanoscience CHEM 053 General Chemistry Laboratory I CHEM 054 General Chemistry Laboratory II CHEM 100 Introduction to General Chemistry CHEM 101 General Chemistry I CHEM 102 General Chemistry II CHEM 115 Honors Chemistry I CHEM 116 Honors Chemistry II CHEM 221 Physical Chemistry I CHEM 222 Physical Chemistry II CHEM 223 Experimental Physical Chemistry I CHEM 241 Principles of Organic Chemistry CHEM 242 Principles of Organic Chemistry II CHEM 243 Organic Chemistry II: Principles of Org Chem with applications in Chem Biology CHEM 244 Experimental Organic Chemistry Lab I CHEM 245 Experimental Organic Chemistry CHEM 246 Advanced Synthesis and Spectroscopy Laboratory CHEM 249 Experimental Organic Chemistry Laboratory II CHEM 251 Principles of Biological Chemistry CHEM 261 Inorganic Chemistry I CHEM 299 Directed Study and Seminar CHEM 399 Independent Research CHEM 441 Organic Reaction Mechanisms CHEM 443 Modern Organic Synthesis CHEM 451 Biological Chemistry I CHEM 452 Biological Chemistry II CHEM 462 Inorganic Chemistry II CHEM 495 High Throughput Discovery: A Multidisciplinary Approach to Cancer. CHEM 521 Statistical Mechanics I CHEM 522 Statistical Mechanics II CHEM 523 Quantum Chemistry I CHEM 524 Quantum Chemistry II CHEM 525 Molecular Spectroscopy CHEM 526 Chemical Dynamics CHEM 541 Physical Organic Chemistry CHEM 551 Methods for in vivo biochemical discovery CHEM 555 Macromolecular Crystallography: Methods and Applications CHEM 557 Mechanisms of Biological Catalysis CHEM 558 Biomolecular Spectroscopy and Microscopy CHEM 565 Main Group Chemistry CHEM 567 Bio-inorganic Chemistry CHEM 601 Chemical Information CHEM 652 Proposal Writing for Biological and Physical Chemists CHEM 662 Proposal Writing for Inorganic and Organic Chemists CHEM 721 Mathematics for Chemistry CHEM 723 Dynamics of Polymers CHEM 742 Medicinal Chemistry and Drug Design CHEM 743 Heterocyclic Chemistry CHEM 744 Bioinspired Synthesis. Methods, Tactics, and Strategies. CHEM 746 Intermediate Organic Chemistry CHEM 751 Chemical Biology CHEM 761 Coordination Chemistry CHEM 764 Materials Chemistry CHEM 765 Chemistry of the f-Block Elements CHEM 766 Electrochemistry: Methods and Chemical Applications CHEM 767 Applications of Group Theory CHEM 999 Independent Study and Research Chemistry in Our Community is designed for non-science majors who are interested in learning about scientific topics currently in the news and affecting our community, such as the ozone hole, global warming, acid rain, nuclear power, plastics, drugs, and genetic engineering. The course fulfills the physical and natural science general education core curriculum requirement. Is CHEM 101 a "remedial course"? Chemistry in Our Community is not a remedial course. The course fulfills the physical and natural science general education core curriculum requirement. How does CHEM 101 differ from the other 100 level chemistry courses? The course is geared specifically to non-science majors and differs fundamentally from other chemistry courses by using topical issues such as global warming, nuclear power and genetic engineering to introduce and reinforce key chemical concepts. Chemistry and science are presented as a web of related ideas and calculations rather than a sequence, which favors learning patterns common in non-science majors. CHEM 111L If I know that I'm not prepared to take CHEM 121, should I take CHEM 111L first? It is not advisable to take 111L to prepare for 121 since UNM does not grant course credit for both courses. Students who plan to pursue a degree program that requires CHEM 121 that feel unprepared to tackle the course should go ahead enroll in the course. If after the second exam the student is not doing well, they can "parachute" into CHEM 120. CHEM 212 Can I take CHEM 212 to prepare for CHEM 301? It is not advisable for students planning to take CHEM 301 to enroll in CHEM 212 since UNM does not grant course credit for both CHEM 212 and CHEM 301. CHEM 120 How can I enroll for CHEM 120? CHEM 120 is a parachute class available to students enrolled in CHEM 121 who are failing at the point of the 2nd test in the semester. You cannot take CHEM 120 if you are not already taking CHEM 121 in a semester. If you were hoping to take CHEM 120 as a class to prepare you for CHEM 121, please contact Sushilla Knottenbelt, sknotten@unm.edu for suggestions on what you can do to prepare yourself for CHEM 121. How many credits? What are the times? CHEM 120 is a 3 credit hour class. The section times usually correlate with the CHEM 121 section times. Check the UNM Schedule of Classes for the current semester for up-to-date information about section times and room numbers. How do I sign up? There is often more demand for CHEM 120 than we have available seats, and if there is enough demand and we know in advance, it might be possible to create another section. DO NOT DROP CHEM 121. You will maximize your chances of getting in if you are flexible to attend a different section. Admission to CHEM 120 will be made on a first come first serve basis, but if there are more students wishing to transfer than we have seats, we will give priority to students having more than 50% on their online homework from CHEM 121. If you are interested in switching, you must fill a pre-enrollment survey which will be emailed to you by your instructor after the 2nd test in CHEM 121. You will be emailed 24 hours before the start of the class you wish to take to let you know if you have a place. You must attend the first day of the class (see the email for dates, rooms and times). Any students who do not attend class on these days may forfeit their place in class, and waitlisted students may enroll, based on who is present in class on those days. The registration is processed as a transfer from CHEM 121 to CHEM 120 so you must still be in 121 for the Registrar to move you to Chem 120. It will not show on your transcript that you took 121 this semester, only Chem 120. Once you have decided to take Chem 120, you do not need to attend Chem 121 or complete any further assignments for 121. None of your Chem 121 grades will follow you into CHEM 120, it will be a fresh start. What about my lab? You may keep the lab or drop it. If you keep the lab and pass it, you will not need to retake it when you retake CHEM 121. In the past, many students taking CHEM 120 and keeping the lab have been able to pass. If you drop the lab, it will show up as a W on your transcript. What new materials do I need to buy? CHEM 120 uses the same textbook and homework software system as CHEM 121. You can use your existing codes in Chem120. Does this count as a general ed science requirement? CHEM 120 uses the same textbook and homework software system as CHEM 121. You can use your existing codes in Chem120. What has been the success of this program in the past? CHEM 120 has been offered every Fall and Spring semester since Fall 2010. Students taking CHEM 120 in these semesters were more likely to return and succeed in CHEM 121 than those who failed CHEM 121 and did not take CHEM 120. Do I still have to take CHEM 121 in future? Yes, if it is required for your degree program or any classes with CHEM 121 as a prerequisite. Programs Departments Pardee School of Global Studies Courses African American Studies African Studies: Culture (in English) African Studies: East African Languages: Kiswahili (Swahili) African Studies: East, West & South African Languages: Amharic, Igbo, Mandinka, isiZulu African Studies: South African Languages: isiXhosa African Studies: West African Languages: Akan Twi, Wolof American Studies Anthropology Arabic: Language, Literature, Culture (including courses in English) Archaeology Astronomy Biochemistry & Molecular Biology Biology Chemistry Chinese: Language, Literature, Culture (including courses in English) Cinema & Media Studies Classical Studies: incl. Classical Civilization and Tradition (in English), Ancient Greek, and Latin Classical Studies: Modern Greek Comparative Literature Computer Science Core Curriculum Earth & Environment Economics Editorial Studies English First Year Experience French: Language, Literature, Linguistics, Culture (including courses in English) German: Language, Literature, Culture (including courses in English) Hebrew: Language, Literature, Culture (including courses in English) Hindi-Urdu: Language, Literature, Culture (including courses in English) History History of Art & Architecture Interdisciplinary Studies International Relations Internships Italian: Language, Literature, Culture (including courses in English) Japanese: Language, Literature, Culture (including courses in English) Jewish Studies Korean: Language, Literature, Culture (including courses in English) Linguistics Literary Translation Marine Science Mathematics & Statistics Natural Sciences Neuroscience Persian (Farsi): Language, Literature, Culture (including courses in English) Philosophy Physics Political Science Portuguese: Language, Literature, Culture (including courses in English) Psychological & Brain Sciences Religion Russian: Language, Literature, Culture (including courses in English) SEA Semester Senior Year Development Sociology Spanish: Language, Literature, Culture (including courses in English) Turkish: Language, Literature, Culture (including courses in English) Women's, Gender & Sexuality Studies Writing Policies Academic and Student Resources Honor Societies Student Activities Most Summer 2021 classes will be held online, and all admissions and student support services are available remotely. Visit the Virtual Student Resource Center to access the assistance that you need. Transcribed image text: Chem 101 Pre-Lab: Molar Mass of Volatile Liquid Nomenclature Pt A student carried out the experiment that is described in this lab. She obtained the following experimental data: Weight of empty, dry flask Weight of flask plus condensed vapour Temperature of water in beaker Volume of flask Atmospheric pressure 44.216 g 44.745 g 100.0°C 225.6 ml 722.0 mmHg 1) What is the pressure of the vapour in the flask, in atm? 2) What is the temperature of the vapour sample, in K 3) What is the volume of the vapour sample, in L? 4) What is the mass of the condensed vapour? 5) Assuming the vapour obeys the ideal gas law, how many moles of vapour are present in the sample? pV/RT 6) Calculate the molar mass of the vapour. How would each of the following experimental errors affect your calculated molar mass? Please answer: my result would be a) too high or b) too low or c) not affected by the error i) Not all the liquid evaporated on heating to 100°C ii) Liquid water leaked into the flask when it was being heated and had not evaporated when the flask was removed. ii) The flask was heated too long and some of the vapour escaped from the flask, being replaced by air



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