

CHM 099 (Introductory Chemistry) Waiver

Students must satisfy the chemistry requirement before taking CHM 110 or 120. This chemistry requirement can be met in one (1) of the following ways:

- 1) Pass the Chemistry Proficiency Test in the Testing Center. Details about the test and study information are included in this handout and also available in the Testing Center.
- 2) Submit the Chemistry Waiver Form (below) with high school transcript to the Records Office. If you have completed two (2) semester (or 1 block, if block scheduling is used) of Chemistry in high school and have earned a grade of "C" or higher in both semesters.
- 3) Take the CHM 099 course (Introductory Chemistry) and pass with a grade of "C" or higher.

IF YOU ARE UNSURE OF WHICH OPTION TO CHOOSE, MEET WITH AN ACADEMIC ADVISOR

Located in the Student Center, top floor at the main campus. (815) 921-4100

CHM 099 (Introductory Chemistry) Waiver – H.S. Transcript

1. Fill in all student information below.
2. Please attach a copy of your official high school (H.S.) transcript to this waiver form and submit to the Records & Registration Department (top floor of the Student Center) or mail to:
Rock Valley College Records & Registration, 3301 N. Mulford Rd, Rockford, IL 61114
*Official transcripts are issued by the high school.

3. Check one (1) below:

- My official H.S. transcript is attached.
 My official H.S. transcript was previously sent to RVC.

Note: Verification of this waiver will be delayed without an official H.S. transcript. If you are unsure of the status of your H.S. transcript with RVC, please contact Kandice White at 815-921-4254.

*A letter will be mailed to you when your waiver has been verified.

Student Name: _____ Maiden Name: _____

Student ID: _____ Phone Number: _____

Mailing Address: _____

Signature: _____ Date: _____



Introductory Chemistry Proficiency Test - Study Information

WHAT you need to know about the RVC Chemistry Proficiency Test:

- The test contains 38 multiple choice questions, which require the knowledge and application of chemistry terms and concepts related to the topics listed below.
- A score of at least 26 out of 38 will indicate successful completion of the chemistry requirement.
- Students are permitted only one attempt at this test.

TOPICS included in the Chemistry Proficiency Test:

- The scientific method, physical measurements, unit conversion calculations, and the mathematics of chemistry.
- A survey of matter and energy including classification of matter, chemical and physical properties, and energy transformations.
- Atomic structure, the periodic table, and formulas of elements and compounds. Included is inorganic nomenclature including names and formulas of compounds.
- Ionic and covalent bonding, an understanding of why elements react, Lewis structures and the octet rule, writing proper formulas of compounds.
- Chemical reactions and balanced chemical equations. Description and classification of reactions in aqueous solutions, including precipitation and neutralization reactions.
- Chemical composition including the mole, molar mass, percent composition, and empirical formulas. Chemical quantities and calculations in chemical reactions including mole and mass relationships.
- Gas laws including the ideal gas law, Dalton's law of partial pressures, and the kinetic molecular theory of gases.
- Liquids and solids including intermolecular forces, phase changes, and classification of solids. Solutions, including solubility and molarity.

HOW to prepare for the Chemistry Proficiency Test:

Note: Many students find the test to be more comprehensive than they expected. You will need familiarity with chemistry concepts as listed above. It is strongly advised that you use one or more of the preparation methods/materials listed below.

- 1) Review material (topics listed above) online through such websites as:
 - 1) Khan Academy (khanacademy.org)
 - 2) Chemistry Online (askthenerd.com/chemistryonline)
- 2) Review books found at local bookstores including: Schaum's Outline of College Chemistry, Chemistry for Dummies and any General Chemistry textbook (Zumdahl is a good author).

WHERE to take the Chemistry Proficiency Test: Students may take the test in the Testing Center (Student Center, lower level). Call for an appointment (815) 921-2385 and mention you would like to take the Chemistry 099 waiver test. A Photo ID is required.

For more information regarding chemistry course requirements, please visit the RVC Chemistry website at: <https://www.rockvalleycollege.edu/Courses/Subjects/chemistry.cfm>