

# FOUNDATIONAL CHEMISTRY – CERTIFICATE OF ACHIEVEMENT

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The chemistry certificate program grants students a certificate acknowledgment that they have successfully completed a set of required general chemistry and organic chemistry courses with labs. It is designed to provide potential employers with proof that the students have the core competency to begin work in chemistry at the entry level.

In addition to the lecture component where knowledge in chemistry will be mastered, all courses include labs that would provide students with the hands-on skills and experience gained from doing experiments involving different techniques. Completion of the certificate program requires that student successfully complete CHEM 012A and CHEM 012B at Evergreen Valley College. A grade of "C" or better in each course is required to receive the certificate of achievement.

## Program Learning Outcomes

- Perform basic and complex calculations related to the preparation of solutions, as well as the skills to prepare chemical solutions.
- Follow experimental protocols involving the uses of standard and analytical equipment, materials, and techniques employed in general, organic and analytical chemistry laboratory.
- Carry out quantitative and qualitative analyses in experiments.
- Function independently or with a team on experimental lab assignments that involve scientific methods.

Course	Title	Units
CHEM 001A	General Chemistry	5
CHEM 001B	General Chemistry	5
CHEM 012A	Organic Chemistry	5
CHEM 012B	Organic Chemistry	5
Total Units		20