

# Chemical Laboratory Technician

## Short-Term Certificate

Available: Phil Campbell and Shoals Campuses

Advisors:

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The Chemical Laboratory Technician short-term certificate emphasizes chemistry and mathematics. The holder of this certificate will have completed 8 semester hours of chemistry and will be exposed to many different areas of chemistry. These areas include fundamental concepts of chemistry, chemical equations and reaction, stoichiometry, thermochemistry, atomic structure, general concepts of chemical bonding, Valence Bond Theory, Molecular Orbital Theory, chemistry of gases and kinetic theory, acids and bases, chemical equilibrium, and chemical thermodynamics. The material covered in the courses, along with skills developed in the laboratory, prepares the student for a wide range of employment possibilities, from industrial laboratories to environmental testing.

For those students who wish to continue their education, these courses are transferable.

Notes:

\*\*Keyboarding skills are essential for the successful completion of English 101.

**Program:** [Chemistry](#)

## Required Courses

Item #	Title	Credits
BIO 103	Principles of Biology I	4
CHM 111	College Chemistry I	4
CHM 112	College Chemistry II	4
	Technical English or Higher	3
MTH 112	Precalculus Algebra	3
MTH 265	Elementary Statistics	3
	<b>Minimum Credit Hours for Graduation:</b>	<b>21</b>