

Pre-Chemical Laboratory Technician Associate in Science Degree

240102 CLT

Available: Phil Campbell and Shoals Campuses
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This program is designed for students who plan to transfer to four-year institutions offering a degree in Chemical Technology.

Entering students are required to complete ORI 101. Transfer students are exempt from this requirement.

	Semester Hours
Area I: Written Composition	6
**ENG 101 and 102	
Area II: Humanities and Fine Arts	12
ENG 271 or 272 and ENG 130***	6
SPH 107	3
Elective: Choose one course from among ART 100, MUS 101, PHL 206*, THR 120, or Foreign Language*	3
Area III: Natural Sciences and Mathematics	11
CHM 111 and CHM 112	8
MTH 113	3
Area IV: History, Social and Behavioral Science	12
*History: HIS 101 and 102 or HIS 201 and 202	6
ECO 231	3
Choose one course from among ECO 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	3
Area V: Pre-Professional, Pre-Major, and Elective Courses	22-23
CIS 146	3
CHM 221 and CHM 222	8
PHY 201 and PHY 202	8
Choose one course from among BIO 103, BIO 220, MTH 265	3-4

Total Semester Transfer Hours 63-64

*See note 2 on page 44.

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

***This course may not transfer.

Chemical Laboratory Technician Short-Term Certificate

410301 CHM

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The Chemical Laboratory Technician program 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.

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	Semester		
	Theory	Lab	Hours
BIO 103 Principles of Biology I	3	2	4
CHM 111 College Chemistry I	3	3	4
CHM 112 College Chemistry II	3	3	4
**ENG 101 English Composition I	3	0	3
ENG 130 Technical Report Writing	3	0	3
MTH 112 Precalculus Algebra	3	0	3
MTH 265 Elementary Statistics	3	0	3

Total Semester Credit Hours 24

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