

**Pre-Chemical Laboratory Technician** 240102 CLT  
**Associate in Science Degree**

Available: Phil Campbell and Shoals Campuses  
 Advisors: C. Sockwell (5378) [sockwell@nwscce.edu](mailto:sockwell@nwscce.edu)  
 M. Murphy (6246) [docm@nwscce.edu](mailto:docm@nwscce.edu)  
 C. Eubanks (5293) [eubanks@nwscce.edu](mailto:eubanks@nwscce.edu)

This degree is designed for students who plan to transfer to four-year institutions offering a degree in Chemical Technology. Also see the short-term certificate program.

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

	<b>Semester Hours</b>
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
<b>Total Semester Transfer Hours .....</b>	<b>63-64</b>

\*See note 2 on page 45.

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

\*\*\*This course may not transfer.

**Pre-Computer Science** 240102 CS  
**Associate in Science Degree**

Available: Phil Campbell and Shoals Campuses  
 Advisors: T. James (6281) [timmy.james@nwscce.edu](mailto:timmy.james@nwscce.edu)  
 T. Roberson (5276) [roberson@nwscce.edu](mailto:roberson@nwscce.edu)  
 J. James (6234/5346) [jamesje@nwscce.edu](mailto:jamesje@nwscce.edu)  
 S. Chandler (5234) [schandler@nwscce.edu](mailto:schandler@nwscce.edu)  
 P. Peters (6326) [ppetters@nwscce.edu](mailto:ppetters@nwscce.edu)

This degree is designed to prepare students for transfer to a four-year institution for a major in Computer Science, Computer Engineering, or Software Engineering, usually offered in a school of engineering or mathematics. Each program requires individual adjustment to prepare for transfer and the student should be in contact with the transfer institution as the A.S. degree is pursued. Students are trained primarily on IBM-compatible Personal Computers.

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

	<b>Semester Hours</b>
Area I: Written Composition .....	6
****ENG 101 and 102	
Area II: Humanities and Fine Arts .....	12
***Literature: ENG 271 and 272,	
ENG 251 and 252 or ENG 261 and 262 ....	6
SPH 107 .....	3
Elective: Choose one course from among ART 100, MUS 101, PHL 206*, THR 120, Foreign Language* .....	3
Area III: Natural Sciences and Mathematics .....	25
Science: Choose two core courses from among BIO, CHM, PHS, PHY .....	
MTH 112** .....	3
MTH 113 .....	3
MTH 125 .....	4
MTH 126 .....	4
****CIS 146 .....	3
Area IV: History, Social and Behavioral Science .....	12
***History: HIS 101 and 102	
or HIS 201 and 202 .....	6
Choose two courses from among ECO 231, ECO 232, POL 200, POL 211, PSY 200, PSY 210, SOC 200 .....	6
Area V: Pre-Professional, Pre-Major, and Elective Courses .....	5-9
CIS 251 .....	3
General Electives/CIS Electives .....	6
PED can be used as a general elective.	
<b>Total Semester Transfer Hours .....</b>	<b>60-64</b>

\*Although these courses will transfer, they may not satisfy the Fine Arts requirement of universities.

\*\*Students with high placement scores may skip the lower math courses.

\*\*\* See note 2 on page 45.

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

\*\*\*\*\*Students without prior computer knowledge or keyboarding should enroll in CIS 096.