

Degree Offered

Associate in Applied Science
Scientific Glass Technology

Curriculum Code: SCI.GLASS.TECH.AAS

Program Information

Scientific glassblowers create glass apparatus for scientific research in laboratories, universities and industry. The only program of its kind in the nation, Scientific Glass Technology combines classroom study and hands-on laboratory techniques, technical drawing and advanced fabrication. Students develop a solid understanding of scientific glassblowing so that they are able to fabricate apparatus according to technical specifications.

When You Graduate

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most of their Cumberland credits transfer to four-year colleges. Students are encouraged to visit the NJ transfer website: www.njtransfer.org for transfer course equivalencies.

Scientific Glass Technology, AAS

A collaborative A.A.S. program with Salem Community College

Program Requirements (61/62 credits) Credits

Year 1, Fall Semester

<input type="checkbox"/> CS 101 Introduction to Microcomputers @ Cumberland	3
<input type="checkbox"/> EN 101 English Composition I @ Cumberland	3
<input type="checkbox"/> SGT 113 Introduction to Scientific Glass*	6
<input type="checkbox"/> General Education Humanities Elective @ Cumberland	3
	15

Year 1, Spring Semester

<input type="checkbox"/> EN 103 Technical Writing @ Cumberland	3
<input type="checkbox"/> SGT 114 Basic Apparatus Fabrication*	6
<input type="checkbox"/> SGT 115 Technical Drawing and CAD for Glassblowers*	3
<input type="checkbox"/> General Education Social Science Elective @ Cumberland	3
	15

Year 2, Fall Semester

<input type="checkbox"/> BUS 102 Introduction to Business*	3
<input type="checkbox"/> CHM 103 Basic & Organic Chemistry I*	3
<input type="checkbox"/> SGT 210 Advanced Fabrication I*	6
<input type="checkbox"/> Open Elective @ Cumberland	3
	15

Year 2, Spring Semester

<input type="checkbox"/> CHM 108 Organic Chemistry for Glassblowers*	4
<input type="checkbox"/> FNA 120 Cold Glass Assemblage & Surface Treatment*	3
<input type="checkbox"/> SGT 211 Advanced Fabrication II*	6
<input type="checkbox"/> General Education Math Elective	3/4
	16/17

Total Credits 61/62

***Class must be completed at Salem Community College.**

Upon completion of this program, students should be able to:

- Utilize and improve skills to fabricate more intricately designed glass apparatus.
- Fabricate functional apparatus according to research and industrial technical specifications.
- Demonstrate the ability to produce, read and understand glass shop drawings.