

## Associate in Applied Science

## SCIENTIFIC GLASS TECHNOLOGY

### 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.

Upon successfully completing 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; and
- demonstrate the ability to produce, read and understand glass shop drawings.

### Transfer of Credits

Although this program is designed for immediate career preparation, some credits may transfer to a four-year college or university. Please direct specific questions to a Student Affairs advisor.

Admission to this program may be limited due to space availability. Please see page 107 for additional admissions information.

<sup>+</sup> Students must successfully complete one of the following college-level mathematics courses: MAT 134, MAT 137, MAT 145, MAT 153, MAT 201, MAT 231, MAT 232 or MAT 233.

<sup>\*</sup> Students with previous computer science experience may substitute another computer science course for CSC 115.

### CREDITS

#### FIRST SEMESTER

<input type="checkbox"/>	CSC 115	Computer Applications*	3
<input type="checkbox"/>	ENG 101	English Composition I	3
<input type="checkbox"/>	SGT 113	Introduction to Scientific Glass	6
<input type="checkbox"/>		Humanities Elective	<u>3</u>
			15

#### SECOND SEMESTER

<input type="checkbox"/>	ENG 122	Business and Occupational Writing	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"/>		Social Science Elective	<u>3</u>
			15

#### THIRD SEMESTER

<input type="checkbox"/>	BUS 102	Introduction to Business	3
<input type="checkbox"/>	CHM 130	Basic and Organic Chemistry I	3
<input type="checkbox"/>	SGT 210	Advanced Fabrication I	6
<input type="checkbox"/>		Open Elective	<u>3</u>
			15

#### FOURTH 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"/>		Mathematics Elective <sup>+</sup>	<u>3/4</u>
			16/17

TOTAL CREDITS: **61/62**

### N.J. GENERAL EDUCATION COMPONENT FOR SCIENTIFIC GLASS TECHNOLOGY

<b>Communication:</b>	ENG 101, ENG 122
<b>Math/Science/Technological Competency:</b>	Mathematics Elective
<b>Social Science:</b>	Social Science Elective
<b>Humanities:</b>	not required
<b>History:</b>	not required
<b>Cultural/Global Awareness:</b>	not required
<b>Unassigned:</b>	CHM 130, CSC 115, Humanities Elective