

Northern Virginia Community College 2008-2009 Catalog

SCIENCE:

Semiconductor Laboratory Processes Technician (Advanced)

Career Studies Certificate

MA

Purpose: This career studies certificate is designed for those wishing to enhance their employment options or retrain for careers as laboratory process technicians or equipment support technicians in the semiconductor and other high-tech fabrication/research facilities.

Special Curriculum Admission Requirements: Students who have not completed the required courses listed below (or their equivalent) may be concurrently enrolled in the career studies certificate with division approval.

- CHM 111-112 College Chemistry I-II (8 credits)
- ENG 111-112 College Composition I-II (6 credits)
- MTH 173-174 Calculus with Analytic Geometry I-II (10 credits) or
- MTH 271-272 Applied Calculus I-II (6 credits)
- PHY 201-202 General College Physics I-II (8 credits)

One Year

Credits

1st Semester

CHM	255 Instrumental Analysis	3
MTH	241 Statistics I	3
PHY	170 Intro. to Microelectronics Processes	3
SDV	106 Preparation for Employment	<u>1</u>
	Total	10

2nd Semester

CHM	270 Chemical Processes – Microelectronics	4
ENG	115 Technical Writing	3
MTH	177 Introductory Linear Algebra	2
PHY	270 Physical Processes - Microelectronics	<u>4</u>
	Total	13

**Total credits for the Semiconductor Laboratory Processes Technician (Advanced)
Career Studies Certificate = 23.**