

ANALYTICAL INSTRUMENTATION, POST-BACCALAUREATE CERTIFICATE

Analytical instrumentation concerns quantitative measurements that are required in every area of science, engineering, and technology. It has been at the heart of scientific advances particularly in the fields of nanoscience and nanotechnology and will continue to dominate in the future. The Post-Baccalaureate Certificate in Analytical Instrumentation program is designed to provide basic knowledge and skills to students and train them for careers in research in academia, industry, government labs, hospitals, and other technologically oriented enterprises.

For information regarding deadlines and requirements for admission, please see the Guide to Graduate Admissions (<https://grs.uncg.edu/prospective/guide/>).

A baccalaureate degree in Chemistry, Physics, Engineering, Biology, or a closely related STEM field.

Certificate Program Requirements

Required: 12 credit hours*

Code	Title	Credit Hours
Select four courses (12 credits) from the following:		12
NAN 604	Nanotechniques	
NAN 615	Introduction to Spectroscopy Methods in Nanoscience	
NAN 623	Optical Microscopy for Nanoscience	
NAN 624	Particle Beam Microscopy for Nanoscience	
NAN 625	Molecular Biology in Nanosciences	
NAN 630	Advances in Nano-Biosensors	
NAN 634	Robust Equipment and Process Control Techniques	
Total Credit Hours		12

* *Transfer courses may not be used to satisfy the certificate requirements.*