

Pharmaceutical Analysis and Quality Control, Academic Certificate

This certificate requires a minimum of 12 semester credit hours.

The graduate Pharmaceutical Analysis and Quality Control Academic Certificate is a 12-hour program open to all majors and professionals. This certificate provides students with the necessary skills to apply advanced analytical chemistry and organic chemistry effectively in pharmaceutical quality assurance, analytical development, regulatory testing, and contract laboratory services.

To qualify for the certificate, students must complete two required core courses and two electives. The electives may be taken as either two lecture courses or as one lecture course and one research course. Substitution within the Analytical/Organic core may be allowed with advisor and School Director approval.

Code	Title	Semester Credit Hours
Required Coursework		
CHEM 5323	Advanced Organic Chemistry	3
CHEM 5303	Advanced Analytical Chem	3
Electives		6
CHEM 5328	Physical Organic Chemistry	
CHEM 5308	Chem/Biochem Analysis	
CHEM 5365	Graduate Research	
CHEM 5305	Project Research	
CHEM 5306	Thesis Research	
Total Semester Credit Hours		12

Prerequisites for various courses must be met or waived on approval of the instructor. Students should consult the course instructor or the Graduate Coordinator for information and advising concerning prerequisites.