

Medicinal and Pharmaceutical Chemistry, Academic Certificate

The Department of Chemistry offers an undergraduate#level academic certificate in Medicinal & Pharmaceutical Chemistry. This program is a minimum of 14 semester credit hours (SCH) (8 SCH of required courses and a minimum of 6 SCH of electives) that is open to all majors and professionals who wish to strengthen their preparation for careers in medicine, pharmacy, biotechnology, or toxicology. Students must earn a grade of B or better in all certificate courses.

Code	Title	Semester Credit Hours
Required Courses		8
CHEM 3323 & CHEM 3123	Organic Chemistry I and Organic Chemistry Lab I ¹	
CHEM 3325 & CHEM 3125	Organic Chemistry II and Organic Chemistry Lab II ¹	
Elective Courses		6
CHEM 3385	Undergraduate Research (WI) ²	
CHEM 4341	Biochemistry I ¹	
CHEM 4342	Biochemistry II ¹	
CHEM 4385	Senior Research (WI) ²	
CHEM 4401	Mod Meth of Instrumental Anal	

Some of the above courses may have prerequisites. Please consult with your academic advisor prior to enrolling.

- ¹ These courses are recognized by major pharmacy, medical, and pre-health programs in the state of Texas as meeting their prerequisites. Completion provides students with a competitive advantage since they do not need to retake these prerequisites for those programs.
- ² Research must focus on drug design, pharmacokinetics, or molecular diagnostics.