## PHARMACEUTICAL CHEMISTRY MINOR

## **Learning Goals and Outcomes**

**Goal 1:** Students will develop an understanding of the theoretical methods and models that chemists use to understand the properties and behavior of matter.

**Objective 1.1:** Students will gain an understanding of the key concepts fundamental to Pharmaceutical Chemistry, such as instrumental analysis and medicinal chemistry.

**Objective 1.2:** Students will predict the behavior of a new substance based on the known behavior of related compounds.

**Objective 1.3:** Students will apply appropriate theoretical models to explain experimental observations.

Objective 1.4: Students will assess experimental data critically.

**Goal 2:** Students will gain authentic hands-on experience with the experimental methods used by chemists.

**Objective 2.1:** Students will use contemporary computer software to study problems in chemistry and present results properly and accurately using figures, graphs, and tables.

**Objective 2.2:** Students will store, handle, and use chemicals safely and responsibly.

Objective 2.3: Students will assess experimental data critically.

**Objective 2.4:** Students will apply appropriate theoretical models to explain experimental observations.

**Objective 2.5:** Students will use accepted laboratory record-keeping methods to record their experimental data.

## Requirements

Code	Title	Hours
CHM 120	General Chemistry I	4
& 120L	and General Chemistry Lab I	
CHM 125	General Chemistry II	4
& 125L	and General Chemistry Lab II	
CHM 210	Organic Chemistry I	4
& 210L	and Organic Chemistry Lab I	
CHM 215	Organic Chemistry II	4
& 215L	and Organic Chemistry Lab II	
CHM 330	Instrumental Analysis	5
& 330L	and Instrumental Analysis Lab	
One of the following:		3
CHM 411	Medicinal Chemistry	
CHM 414	Structure-Activity Relatnshps	
CHM 448	Computer-Aided Drug Design	
Total Hours		24