## **Medicinal Chemistry — Graduate Certificate**

This graduate certificate enables students to obtain training and to become credentialed in the field of medicinal chemistry. This field encompasses the study of drug mechanisms of action and biodisposition (absorption, distribution, metabolism and elimination), the design and synthesis of bioactive molecules, the detection and quantification of bioactive molecules, and the chemistry of natural products. Thus, the knowledge base and credentialing available through this program will enhance the ability of students to obtain employment, particularly, but not exclusively, in the pharmaceutical industry.

Code	Title	Hours
CHEM 7200	Physical Organic Chemistry	3
CHEM 7220	Organic Reactions	3
DRDD 7230	Advanced Medicinal Chemistry I	3
DRDD 7240	Advanced Medicinal Chemistry II	3
Elective Courses		3
BCHE 7230	Biochemistry of Macromolecules	
CHEM 7260	Special Topics in Organic Chemistry	
CHEM 7530	Advances in Bioanalytical Chemistry	
CHEM 7750	Formal Presentations in Modern Chemistry	
DRDD 7250	Drug Action and Design	
DRDD 7260	Separation Science	
DRDD 7270	Mass Spectrometry of Organic Compounds	
DRDD 7600	Heterocyclic Medicinal Chemistry	
Total Hours		15

Total Hours 15