

Core courses of the PhD in the Pharmaceutical Sciences Program (PhD) Medicinal Chemistry and Pharmacognosy Track

The Medicinal Chemistry and Pharmacognosy track focuses on the discovery of potential novel drugs that function via interaction with biologically relevant proteins that are involved in human diseases. This will be accomplished via the synthesis of new small-molecule compounds, or via discovery and/or modification of biologically active natural products, when applicable supported by computational tools for optimization of activities. This track is directed towards students that are interested to apply basic chemistry knowledge towards the development of potential clinical therapies.

First year

First Semester		Second Semester	
<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
Basic Basic Principles of Pharmaceutical Sciences I	4	Basic Principles of Pharmaceutical Sciences II	3
Applied Biostatistics	3	Advanced Instrumental Analysis	3
Principles of Drug Discovery and Drug Development	3	Seminar II	1
Seminar I	1	Ethics in Research	2
Lab Rotation	1	Research	3
Total	11	Total	12

Second year

First Semester		Second Semester	
<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
Advanced Medicinal Chemistry & Pharmacognosy I	3	Advanced Medicinal Chemistry & Pharmacognosy II	3
Advanced Molecular Biochemistry	3	Advanced Methods and Synthetic Organic Chemistry	3
Seminar III	1	Seminar IV	1
Principles of Research Design	2	Research	3
Research	3	Elective	3
Total	12	Total	13