

King Saud University
College of Pharmacy
Dept. of Pharmacology

Definition of the program of higher education:

The department offers two programs of master degree in two specialties (Pharmacology & Toxicology). The curriculum of each one consists of studying 26 credit hours (Theoretical & Practical), divided within 3 semesters. Furthermore, the students are requested to submit a thesis related to the field of experimental pharmacology or toxicology (PHL600). The thesis must be of a new concept and a novel edition in the field of its specialty with a probability of application in the medical scope. The minimum duration of its performance is at least 2 semesters. The distribution of the required courses of the two programs is as follow:

**Master Program in Pharmacology
Course List**

First Semester

<u>Course No.</u>	<u>Title</u>	<u>Credit hours</u>
PHL 511	Experimental Pharmacology	1 + 2
PHL 512	Advanced Pharmacology-I	2 + 1
PHL 551	Physiological Chemistry	<u>3 + 0</u>
Total:		9

Second Semester

<u>Course No.</u>	<u>Title</u>	<u>Credit hours</u>
PHL 513	Advanced Pharmacology-2	3 + 0
PHL 514	Advanced Pharmacology-3	3 + 0
PHL 542	Pharmacological Screening	0 + 2
PHL 591	Seminar	<u>1 + 0</u>
Total:		9

Third Semester

<u>Course No.</u>	<u>Title</u>	<u>Credit hours</u>
PHL 518	Selected Topics in Pharmacology	1 + 1
PHL 521	Clinical Pharmacology & Therapeutics	2 + 1
PHL 541	Pharmacometrics	<u>3 + 0</u>
Total:		8

**Master Program in Toxicology
Course List**

<u>Course No.</u>	<u>Title</u>	<u>Credit hours</u>
PHL 531	Toxicological Evaluation	1 + 2
PHL 532	Biochemical Toxicology	2 + 1
PHL 551	Physiological Chemistry	<u>3 + 0</u>
	Total:	9

Second Semester

PHL 522	Advanced Clinical Toxicology	2 + 1
PHL 533	Toxicology of Drugs of Abuse	2 + 1
PHL 542	Pharmacological Screening	0 + 2
PHL 591	Seminar	<u>1 + 0</u>
	Total:	9

Third Semester

<u>Course No.</u>	<u>Title</u>	<u>Credit hours</u>
PHL 534	Environmental & Industrial Toxicology	2 + 1
PHL 535	Genetic Toxicology	2 + 0
PHL 541	Pharmacometrics	<u>3 + 0</u>
	Total:	8

Objectives of the Programs of higher education:

A Program of Pharmacology

Existence of Pharmacists of higher quality having a panel of Pharmacological knowledge for better contribution in the different health services (hospitals, drug companies & stores, Pharmaceutical factories, ministry of health, research centres, universities and higher health institutes).

B Program of toxicology

Existence of Pharmacists of higher quality having a panel of Toxicological knowledge for better contribution in the different toxicological centres all over the kingdom (governmental & private) e.g. hospitals, factories, laboratoriesetc.

Requirements for enrollment in M.Sc. programs:

In addition to the general requirements of the university, the department necessitates

The following,

- 1) General grade "at least good" in B.Sc. (pharmacy).
- 2) The grades of the concerned subjects of each especiality should be at least 'very good'

Furthermore, the department has its right to enpose on the students compulsory studies of some courses of undergraduate programs (Pharmacology or Toxicology) extending for one semester.