

## Pharmaceutics (PHAR) Major

Pharmaceutics is a multidisciplinary applied science that studies the physical and chemical attributes of drugs. It places a strong emphasis on the design and evaluation of drug delivery systems and dosage forms and also on the understanding and control of the factors influencing clinical response to drug therapy.

### Pharmaceutics Professional Division Curriculum

All requirements listed below must be fulfilled with a minimum of 126 semester hours required for graduation.

#### P1 Year

##### *First Semester*

MBC	3310	Medicinal Chemistry I .....	2
MBC	3550	Physiological Chemistry I.....	3
PHCL	3700	Pharmacology I.....	3
PHPR	3010	Pharmaceutical Calculations...	2
PHPR	3020	Pharmaceutical Technology I	4
		Major Electives <sup>1</sup> .....	2

##### *Second Semester*

MBC	3320	Medicinal Chemistry II.....	2
MBC	3560	Physiological Chemistry II .....	3
MBC	3800	Microbiology & Immunology.	3
PHCL	3730	BSPS Pharmacology II .....	3
PHPR	3030	Pharmaceutical Technology II	4
		Major Electives <sup>1</sup> (Recommended MBC 3100)	1

#### P2 Year

##### *First Semester*

MBC	3330	Techniques in Pharm. and Medicinal Chemistry .....	2
MBC	3340	Techniques in Pharm. and Medicinal Chemistry Lab .....	1
PHPR	4160	Pharmacokinetics .....	3
PHCL	4810	BSPS Pharmacology III .....	3
BIOL	3030	Cell Biology .....	3
BIOL	3040	Cell Biol. Lab.....	2
		Major Electives <sup>1</sup> .....	1

##### *Second Semester*

PHPR	4880	Internship in Pharmaceutics <sup>2</sup> .....	6-12
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<sup>1</sup>To be chosen from the pharmaceuticals major electives list below. Need a minimum of 4 credit hours major electives.

<sup>2</sup>Internship can be taken in the summer before P2 year

### **PHAR Electives**

Other electives require approval of the PHAR major adviser.

PHPR	4680	Parenteral Manufacturing*.....	2
PHPR	4690	Dosage Form Design*.....	3
PHPR	4710	Selected Topics in Pharm. Tech.*	2
PHPR	4720	Pharmaceutical Rate Process*	2
PHPR	4900	Honors Seminar Pharmaceuticals	1-3
PHPR	4910	Pharmacy Practice Problems	1-3
PHPR	4960	Honors Thesis Pharmacy Practice	2-5
PHCL	4820	Pharmacology IV .....	3
BIOL	3010	Molecular Genetics .....	3
BIOL	3020	Molecular Genetics Lab .....	2
BIOL	4110	Human Genetics .....	3
BIOL	4330	Parasitology.....	3
CHEM	3730	Physical Chemistry I.....	3
CHEM	3740	Physical Chemistry II.....	3
ECON	4750	Health Economics .....	3
MBC	4380	Medicinal Plants.....	3
MBC	3850	Microbiology/Immunology Lab	2
MATH	2600	Introduction to Statistics .....	3
HEAL	2800	Principles of Nutrition.....	3

\*Taught every other year for those undergraduates not planning to apply to UT's industrial pharmacy graduate program.