

REQUIREMENTS FOR UNDERGRADUATE AND PROFESSIONAL PROGRAMS OF STUDY

The student is responsible for the correct selection of the program of study each semester and for the fulfillment of the requirements given here. Although advisors will assist wherever possible, the final responsibility rests with the student. The CPPS reserves the right to change its policies and procedures at any time. These changes will be binding on the date they are approved by faculty action. Courses taken at other colleges of pharmacy will not substitute for required professional division courses. The only pharmacy courses a pre-professional student is permitted to take through the CPPS are:

Code	Title	Hours
PHPR 1000	Orientation	1
PHPR 2040	Introduction to Cosmetic Science	1
PHCL 2220	Drugs, Medicine And Society	3
PHCL 2610	Introductory Physiology	3
PHCL 2900	Pharmacology Research Introduction	1-3
MBC 2960	Undergraduate Research	1-6

Only students admitted to the professional division will be allowed to take 3000- or 4000-level courses in the college.

Degree Requirements

The curriculum as outlined in the current catalog is subject to modifications with immediate implementation to keep pace with changing trends in pharmaceutical education and in accordance with accreditation standards.

Bachelor of Science in Pharmaceutical Sciences Degree Requirements

In response to the increasing demand for scientists, researchers, and administrators in the pharmaceutical fields, The University of Toledo CPPS offers the Bachelor of Science in Pharmaceutical Sciences (BSPS) degree program. The BSPS degree is a four-year baccalaureate program. Pharmaceutical sciences represent the collective basic sciences that underlie pharmacy. There are five majors and one minor under this degree program:

- Cosmetic science and formulation design (PCOS) major and minor
- Medicinal and biological chemistry (MBC)
- Pharmaceutics (PHAR)
- Pharmacology/toxicology (PTOX)
- Pharmacy administration (PHAM)

This degree program is designed for students who wish to pursue careers related to the pharmaceutical industry, pharmaceutical science and research, pharmacy administration and sales, the biomedical industry, the personal products industry, forensic science, as well as health-care

administration. It also prepares students to pursue graduate studies or enter professional schools including medicine, dentistry, law and physician assistant programs.

General Program Requirements

A minimum of 120 semester hours is required for graduation with all Bachelor of Science in pharmaceutical sciences non-PharmD majors.

Double Major within the B.S.P.S. Program Requirements

- All program requirements for both majors must be successfully fulfilled.
- Internship for both majors should be taken at different semesters and the student will pay a total of 6 terms of practicum fees.
- A minimum of 144 semester hours for any dual majors is required. For MBC and PTOX dual majors, a minimum of 38 major elective hours is required.

Pre-Professional Division Requirements

In the pre-professional division, the first two years of the BSPS program, students will be broadly trained in the arts, humanities and social sciences – although the natural sciences will receive emphasis. The curriculum of the pre-professional division of the CPPS is similar for the Pharm.D. and the BSPS degrees.

College of Pharmacy & Pharmaceutical Sciences (CPPS) Pre-Professional (PREP) Curriculum

Applying to Professional Division (P1) for Fall 2018 or after

Course	Title	Hours
First Term		
Fall 1st Year		
PHPR 1000	Orientation ¹	1
MATH 1850	Single Variable Calculus I	4
	or MATH 1750 or Calculus For The Life Sciences With Applications I and Calculus For The Life Sciences With Applications II	
MATH 1760		
CHEM 1230	General Chemistry I	4
CHEM 1280	General Chemistry Lab I	1
BIOL 2170	Fundamentals of Life Science: Biomolecules, Cells, and Inheritance	4
BIOL 2180	Fundamentals of Life Science Laboratory: Biomolecules, Cells, and Inheritance	1
Hours		15
Second Term		
Spring 1st Year		
PHCL 2610	Introductory Physiology	3
MATH 2640	Statistics for Applied Science	3
CHEM 1240	General Chemistry II	4
CHEM 1290	General Chemistry Lab II	1
ENGL 1110	College Composition I (UT Core Requirement)	3
UT Core Requirement (US Diversity) ²		3
Hours		17

Third Term**Fall 2nd Year**

CHEM 2410	Organic Chemistry I	3
CHEM 2460	Organic Chemistry Laboratory I for Non-Majors	1
PHYS 1750	Introduction To Physics ¹	4
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3
UT Core Requirement (Social Science) ²		3
Hours		14

Fourth Term**Spring 2nd Year**

CHEM 2420	Organic Chemistry II	3
CHEM 2470	Organic Chemistry Laboratory II for Non-Majors	1
UT Core Requirement (Social Science) ²		3
UT Core Requirement (Humanities/Fine Arts) ²		3
UT Core Requirement (Humanities/Fine Arts) ²		3
UT Core Requirement (Non-US Culture) ²		3
Hours		16
Total Hours		62

¹ Only offered during fall semesters.

² If double-dip, PREP course load reduced by 3 hours. Only one double dip is allowed for the UT Core requirements.

Bachelor of Science in Pharmaceutical Sciences Professional Division Requirements

In the professional division of the BSPS degree program, the last two years of the program, advanced courses of study and internship experience in each major lead to a unique concentration in the pharmaceutical fields. Requirements can be found under General Criteria for Progression to the professional divisions of BSPS.