

PHARMACEUTICAL SCIENCES B.S.

Bachelor of Science - Pharmaceutical Sciences

College of Health Professions and Biomedical Sciences - Skaggs School of Pharmacy

Degree Specific Credits: 115

Required Cumulative GPA: 2.00

Catalog Year: 2018-2019

Note: The B.S. in Pharmaceutical Sciences is restricted to students admitted to the Doctor of Pharmacy program. To be eligible for licensure as a pharmacist, students must obtain the Doctor of Pharmacy degree. See the Doctor of Pharmacy (<http://catalog.umt.edu/colleges-schools-programs/health-professions-biomedical-sciences/skaggs-school-of-pharmacy/doctor-of-pharmacy>) catalog page for more information.

For students seeking an undergraduate degree to prepare for research rather than clinical practice, please see the B.S. in Chemistry, concentration in Pharmacology (<http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/chemistry/bs-pharmacology>).

General Education Requirements

Information regarding these requirements can be found in the General Education Section (<http://catalog.umt.edu/academics/general-education-requirements>) of the catalog.

Summary

Code	Title	Hours
Lower-Division Core Courses		50
Biology		
General and Organic Chemistry		
Physics		
Mathematics		
Communication & Social Sciences		
Upper-Division Core Courses		65
Pharmaceutical & Biomedical Sciences		
Clinical Sciences		
Social, Behavioral, & Administrative Sciences		
Introductory Pharmacy Practice Experiences (IPPE)		
Total Hours		115

Lower-Division Core Courses

Biology

Code	Title	Hours
Complete all of the following courses:		
BIOH 112	Human Form and Function I	3
BIOH 113	Human Form and Function II	3

BIOB 260	Cellular and Molecular Biology	4
Total Hours		10

Minimum Required Grade: C-

General and Organic Chemistry

Code	Title	Hours
Complete all of the following courses:		
CHMY 141N & CHMY 142N	College Chemistry I and College Chemistry I Lab	5
CHMY 143N & CHMY 144N	College Chemistry II and College Chemistry II Lab	5
CHMY 221 & CHMY 222	Organic Chemistry I and Organic Chemistry I Lab	5
CHMY 223	Organic Chemistry II	3
Total Hours		18

Minimum Required Grade: C-

Physics

Code	Title	Hours
Complete all of the following courses:		
PHSX 205N & PHSX 206N	College Physics I and College Physics I Laboratory	5
Total Hours		5

Minimum Required Grade: C-

Mathematics

Code	Title	Hours
Complete the following course:		
M 162	Applied Calculus	4
Complete one of the following courses:		
STAT 216	Introduction to Statistics	
PSYX 222	Psychological Statistics	
SOCI 202	Social Statistics	
Total Hours		8

Minimum Required Grade: C-

Communication & Social Sciences

Code	Title	Hours
Complete all of the following courses:		
COMX 111A or THTR 120A	Introduction to Public Speaking Introduction to Acting I	3
PSYX 100S or SOCI 101S	Intro to Psychology Introduction to Sociology	3
ECNS 201S	Principles of Microeconomics	3
Total Hours		9

Minimum Required Grade: C-

Upper-Division Core Courses

Rule: Students must be admitted to the Doctor of Pharmacy degree program and complete all required coursework for the first two years including the first IPPE. Students enrolled in the professional pharmacy

curriculum are assessed a supplemental fee. This fee does not apply to Pre-Pharmacy students. Refer to the fees (<http://catalog.umt.edu/expenses-services-organizations/expenses>) section of the catalog for details.

In addition, students must demonstrate proficiency in pharmaceutical calculation by successfully completing a competency assessment prior to entering the second professional year.

Pharmaceutical & Biomedical Sciences

Code	Title	Hours
Complete all of the following courses:		
PHAR 329	Microbes & Medicines	4
PHAR 331	Pharmaceutics	4
PHAR 341 & PHAR 361	Pharmaceutical Pathophysiology I and Pharm Sci Lab I	5
PHAR 342 & PHAR 362	Pharmaceutical Pathophysiology II and Pharm Sci Lab II	5
PHAR 371	Integrated Studies I	1
PHAR 372	Integrated Studies II	1
PHAR 381	Pharmaceutical Biochemistry	4
PHAR 421	Medicinal Chem I	3
PHAR 422	Medicinal Chem II	3
PHAR 443	Pharmacol & Toxicol I	4
PHAR 444	Pharmacology & Toxicol II	4
Total Hours		38

Minimum Required Grade: C-

Clinical Sciences

Code	Title	Hours
Complete all of the following courses:		
PHAR 432	Clinical Pharmacokinetics	3
PHAR 451 & PHAR 471	Therapeutics I and Integrated Studies III	4
PHAR 452 & PHAR 472	Therapeutics II and Integrated Studies IV	4
Total Hours		11

Minimum Required Grade: C-

Social, Behavioral & Administrative Sciences

Code	Title	Hours
Complete all of the following courses:		
PHAR 300 & PHAR 360	Pharmacy Practice I and Pharmacy Practice Lab I	5
PHAR 310	Pharmacy Practice II	2
PHAR 311	Healthy People	1
PHAR 350	Drug Info	1
PHAR 412 & PHAR 463	Pharmacy Practice III and Pharmaceutical Care Lab III	3
PHAR 460	Pharmaceutical Care Lab II	1
Total Hours		13

Minimum Required Grade: C-

Introductory Pharmacy Practice Experiences (IPPE)

Code	Title	Hours
Complete all of the following courses:		
PHAR 480	Community Pharmacy IPPE	3
Total Hours		3

Minimum Required Grade: C-