

# B.S. PHARMACEUTICAL SCIENCES

## Bachelor of Science - Pharmaceutical Sciences

### College of Health Professions & Biomedical Sciences

Degree Specific Credits: 118

Required Cumulative GPA: 2.0

Catalog Year: 2018-2019

**Note:** This major is restricted to student enrolled in the Doctor of Pharmacy degree program

### 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 (Pre-pharmacy)		50
	Biology	
	Chemistry	
	Physics	
	Mathematics	
	Pharmacy pre-requisites	
Upper-Division Core		68
	Pharmaceutical Sciences	
	Clinical Sciences	
	Social Behavioral Administrative Sciences	
	Integrated Studies	
	IPPE	
Total Hours		118

### Lower-Division Core (Pre-pharmacy)

#### Biology

Code	Title	Hours
Complete 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-

#### Chemistry

Code	Title	Hours
Complete 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 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 courses:		
M 162	Applied Calculus	4
STAT 216	Introduction to Statistics	4
Total Hours		8

Minimum Required Grade: C-

#### Additional Pharmacy Pre-requisites

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

Minimum Required Grade: C-

### Upper-Division Core (First two years of Doctor of Pharmacy degree program)

#### Pharmaceutical Sciences

Code	Title	Hours
Complete all of the following courses:		
PHAR 329	Microbes & Medicines	4
PHAR 331	Pharmaceutics	4
PHAR 341 & PHAR 342	Pharmaceutical Pathophysiology I and Pharmaceutical Pathophysiology II	8
PHAR 361 & PHAR 362	Pharm Sci Lab I and Pharm Sci Lab II	2
PHAR 381	Pharmaceutical Biochemistry	4
PHAR 421 & PHAR 422	Medicinal Chem I and Medicinal Chem II	6
PHAR 432	Clinical Pharmacokinetics	3

PHAR 443 & PHAR 444	Pharmacol & Toxicol I and Pharmacology & Toxicol II	8
Total Hours		39

Minimum Required Grade: C-

### Clinical Sciences

Code	Title	Hours
Complete all of the following courses:		
PHAR 432	Clinical Pharmacokinetics	3
PHAR 451 & PHAR 452	Therapeutics I and Therapeutics II	6
Total Hours		9

Minimum Required Grade: C-

### Social Behavioral Administrative Sciences

Code	Title	Hours
Complete all of the following courses:		
PHAR 300	Pharmacy Practice I	4
PHAR 310	Pharmacy Practice II	2
PHAR 311	Healthy People	1
PHAR 350	Drug Info	1
PHAR 360	Pharmacy Practice Lab I	1
PHAR 412	Pharmacy Practice III	2
PHAR 460 & PHAR 463	Pharmaceutical Care Lab II and Pharmaceutical Care Lab III	2
Total Hours		13

Minimum Required Grade: C-

### Integrated Studies

Code	Title	Hours
Complete the following courses:		
PHAR 371 & PHAR 372	Integrated Studies I and Integrated Studies II	2
PHAR 471 & PHAR 472	Integrated Studies III and Integrated Studies IV	2
Total Hours		4

Minimum Required Grade: C-

### IPPE (Introductory Pharmacy Practice Experience)

Code	Title	Hours
Complete the following course:		
PHAR 480	Community Pharmacy IPPE	3
Total Hours		3

Minimum Required Grade: C-