

B.S. PHARMACEUTICAL SCIENCES

The Bachelor of Science in Pharmaceutical Sciences may be earned after a successful completion of a minimum of two years of required pre-pharmacy coursework and the first two basic science intensive years of the Pharm. D. curriculum. The B.S. Pharmaceutical Science degree is intended for students that enter the professional pharmacy program without a prior four-year degree and/or who intend to pursue graduate studies.

Pre-Pharmacy Curriculum

The courses shown here must be completed before entering the professional pharmacy program. The sequence of courses is illustrative and, if proper prerequisites are satisfied, the student may alter the order in which the courses are taken.

In addition, applicants to the professional pharmacy program must present proof of having completed at least 20 hours of volunteer or paid service in a pharmacy, other health care, or social field, a writing assignment about the experience, and one evaluation form from someone involved with the applicant in such an experience. The Pharmacy College Admission Test (PCAT) must be taken within two years of application.

Pre-Pharmacy First Year

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
M 162	Applied Calculus (prereq. M 151 or appropriate placement score)	4
BIOH 112	Human Form and Function I	3
BIOH 113	Human Form and Function II	3
WRIT 101	College Writing I	3

Pre-Pharmacy Second Year

BIOB 260	Cellular and Molecular Biology	4
CHMY 221 & CHMY 222	Organic Chemistry I and Organic Chemistry I Lab	5
ECNS 201S	Principles of Microeconomics	3
PHSX 205N & PHSX 206N	College Physics I and College Physics I Laboratory	5

Select one of the following: 3-4

STAT 216	Introduction to Statistics	
PSYX 222	Psychological Statistics	
SOCI 202	Social Statistics	

Either Year, any semester- Required

PSYX 100S	Intro to Psychology	3
THTR 120A	Introduction to Acting I	3
	or COMX 111A Intro to Public Speaking	

Either year, any semester - Recommended courses to fulfill UM General Education requirements¹

ANTY 101H	Anthro & the Human Experience	3
	or NASX 105H Intro Native Amer Studies	
LIT 110L	Intro to Lit	3
	or LIT 120L Poetry	

Select one of the following: 3

ANTY 122S	Race and Minorities	
HSTR 101H	Western Civilization I	
HSTA 101H	American History I	

Total Hours 58-59

¹ Students must complete the University's General Education requirements. Due to the limitation of elective credits in the professional pharmacy curriculum, students are advised to complete the lower-division General Education requirement during the pre-pharmacy curriculum.

Professional Pharmacy Curriculum

Students must apply for admission to the professional program (<http://health.umt.edu/pharmacy>). 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/past-catalogs/2017-2018/expenses-services-organizations/expenses>) section of this catalog for details. Students must demonstrate proficiency in pharmaceutical calculation by successfully completing a competency assessment prior to entering the second professional year.

The Upper-Division Writing Requirement must be met by successfully completing PHAR 550 or an upper-division writing course from the approved list in the Academic Policies and Procedures (<http://catalog.umt.edu/past-catalogs/2017-2018/academics/policies-procedures>) section of this catalog. See index.

First Year		Hours
Autumn		
PHAR 381	Pharmaceutical Biochemistry	4
PHAR 341	Physiological Systems I	4
PHAR 361	Pharm Sci Lab I	1
BIOM 400	Medical Microbiology	3
PHAR 300	Pharmacy Practice I	3
PHAR 371	Integrated Studies I	1
Hours		16
Spring		
PHAR 328	Antimicrobial Agents	3
PHAR 331	Pharmaceutics	4
PHAR 342	Physiological Systems II	4
PHAR 362	Pharm Sci Lab II	1
PHAR 310	Pharmacy Practice II	2
PHAR 363	Pharmaceutical Care Lab I	1
PHAR 372	Integrated Studies II	1
Hours		16
Second Year		
Autumn		
PHAR 421	Medicinal Chem I	3

2 *B.S. Pharmaceutical Sciences*

PHAR 432	Clinical Pharmacokinetics	3
PHAR 443	Pharmacol & Toxicol I	4
PHAR 451	Therapeutics I	3
PHAR 460	Pharmaceut Care Lab II	1
PHAR 471	Integrated Studies III	1
Electives		1
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		Hours 16
Spring		
PHAR 412	Pharmacy Practice III	2
PHAR 422	Medicinal Chem II	3
PHAR 444	Pharmacol & Toxicol II	4
PHAR 452	Therapeutics II	3
PHAR 463	Pharmaceut Care Lab III	1
PHAR 472	Integrated Studies IV	1
Electives		2
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		Hours 16
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		Total Hours 64

Required credits: 120