

DOCTOR OF PHARMACY

Special Degree Requirements

Refer to graduation requirements (<http://catalog.umt.edu/academics/graduation-requirements>) listed previously in the catalog.

Degree candidates must:

1. Meet the general University requirements for graduation.
2. Earn a grade point average of 2.0 or higher in each of the following areas:
 - a. all courses attempted at The University of Montana-Missoula (cumulative GPA).
 - b. all courses which carry a pharmacy (PHAR) prefix (pharmacy GPA).
 - c. all required courses in the professional pharmacy curriculum (professional GPA).
3. Required pharmacy course work must be completed with a grade of C- or better.
4. Complete at least six full academic years, including pre-pharmacy instruction, and a minimum of eight semesters of professional instruction as a full-time student registered for a minimum of twelve credits per semester.
5. Complete not less than 200 credits of course work with a minimum of 136 credits in the professional program.
6. Complete all other accreditation-required activities for pharmacy students (ACPE Standards 2016).

Licensure in Montana

An applicant for licensure as a registered pharmacist in Montana must pass national examinations as required by the Montana State Board of Pharmacy. To qualify for the examinations, the applicant must be of good moral character and a graduate of an accredited school of pharmacy; however, an applicant will not receive a license until all requirements have been met.

Doctor of Pharmacy

College of Health Professions and Biomedical Sciences

Degree Specific Credits: 200 (64 Pre-pharmacy and 136 Professional credits)

Required Cumulative GPA: 2.0

Catalog Year: 2018-2019

Note: Pre-pharmacy coursework 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 observation 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.

Summary

Code	Title	Hours
Pre-Pharmacy Requirements		64
Biology		
General and Organic Chemistry		
Physics		
Mathematics		
Communication & Social Sciences		
Pre-Pharmacy Electives		
Professional Pharmacy Curriculum		136
Pharmaceutical & Biomedical Sciences		
Clinical Sciences		
Social Behavioral & Administrative Sciences		
Introductory & Advanced Pharmacy Practice Experiences (IPPE & APPE)		
Total Hours		200

Pre-Pharmacy Requirements

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	4
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	Introduction to Public Speaking	3
or THTR 120A	Introduction to Acting I	
PSYX 100S	Intro to Psychology	3
or SOCI 101S	Introduction to Sociology	
ECNS 201S	Principles of Microeconomics	3
WRIT 101	College Writing I	3
Total Hours		12

Minimum Required Grade: C-

Pre-Pharmacy Electives

Code	Title	Hours
Complete 11 elective credits. Speak with your advisor about completing this requirement.		11
Total Hours		11

Minimum Required Grade: C-

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/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.

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
PHAR 553 & PHAR 571	Therapeutics III and Integrated Studies V	5
PHAR 554 & PHAR 563 & PHAR 572	Therapeutics IV and Pharmaceutical Care Lab V and Integrated Studies VI	6
PHAR 565	Pharmacy APPE Preparation	3
Total Hours		25

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
PHAR 505 & PHAR 560	Pharmacy Practice IV and Pharmaceutical Care Lab IV	4
PHAR 506	Pharmacy Practice V	3
PHAR 514E	Case Studies Pharm Ethics	3
PHAR 550	Drug Literature Eval	3
PHAR 559	Public Health and Pharmacoeconomics	3
3 credits of elective courses. Please see your advisor for courses that will complete this requirement.		3
Total Hours		32

Minimum Required Grade: C-

Introductory and Advanced Pharmacy Practice Experiences (IPPE and APPE)

Code	Title	Hours
Complete all of the following courses:		
PHAR 480	Community Pharmacy IPPE	3
PHAR 481	Hospital Pharmacy IPPE	3
PHAR 579	Comm Pharm APPE	4
PHAR 580	Hosp Pharm APPE	4

PHAR 581	Inpatient APPE	4
PHAR 582	AMB Care APPE	8
Complete 16 credits of the following courses:		16
PHAR 583	Drug Information APPE	
PHAR 584	Specialized Services APPE	
PHAR 585	Geriatric APPE	
PHAR 586	Clinical Speciality APPE	
PHAR 587	Administrative APPE	
PHAR 588	Research APPE	
PHAR 589	Education APPE	
Total Hours		42

Minimum Required Grade: C-