

DOCTOR OF PHARMACY

Special Degree Requirements

Refer to graduation requirements (<http://catalog.umn.edu/past-catalogs/2017-2018/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.

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.

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 or COMX 111A	Introduction to Acting I or Intro to Public Speaking	3
Total Hours		49-50

Professional Pharmacy Curriculum

Students must apply for admission to the professional program (<http://health.umn.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.umn.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.umn.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 or PHAR 342	Physiological Systems I or Physiological Systems II	4
PHAR 361 or PHAR 362	Pharm Sci Lab I or Pharm Sci Lab II	1
BIOM 400	Medical Microbiology	3
PHAR 300	Pharmacy Practice I	3
PHAR 371 or PHAR 372	Integrated Studies I or Integrate Studies II	1
Hours		16
Spring		
PHAR 328	Antimicrobial Agents	3

PHAR 331	Pharmaceutics	4
PHAR 341 or PHAR 342	Physiological Systems I or Physiological Systems II	4
PHAR 361 or PHAR 362	Pharm Sci Lab I or Pharm Sci Lab II	1
PHAR 310	Pharmacy Practice II	2
PHAR 363	Pharmaceutical Care Lab I	1
PHAR 371 or PHAR 372	Integrated Studies I or Integrated Studies II	1
Hours		16

Second Year

Autumn

PHAR 421 or PHAR 422	Medicinal Chem I or Medicinal Chem II	3
PHAR 432	Clinical Pharmacokinetics	3
PHAR 443 or PHAR 444	Pharmacol Toxicol I or Pharmac Toxicol II	4
PHAR 451 or PHAR 452	Therapeutics I or Therapeutics II	3
PHAR 460 or PHAR 463	Pharmaceut Care Lab II or Pharmac Care Lab III	1
PHAR 471 or PHAR 472	Integrated Studies III or Integrated Studies IV	1
Hours		16
Electives		1

Spring

PHAR 480	Community Pharmacy IPPE	3
PHAR 421 or PHAR 422	Medicinal Chem I or Medicinal Chem II	3

PHAR 443 or PHAR 444	Pharmacol Toxicol I or Pharmac Toxicol II	4
PHAR 412	Pharmacy Practice III	2
PHAR 451 or PHAR 452	Therapeutics I or Therapeu tics II	3
PHAR 460 or PHAR 463	Pharmaceutical Care Lab II or Pharmaceutical Care Lab III	1
PHAR 471 or PHAR 472	Integrated Studies III or Integrated Studies IV	1
Hours		19
Electives		2

Third Year

Autumn

PHAR 505	Pharmacy Practice IV	3
PHAR 550	Drug Literature Eval	3
PHAR 553 or PHAR 554	Therapeutics III or Therapeutics IV	4
PHAR 557	Public Health In Pharmacy	2
PHAR 560 or PHAR 563	Pharmaceutical Care Lab IV or Pharmaceutical Care Lab V	1
PHAR 571 or PHAR 572	Integrated Studies V or Integrated Studies VI	1
Hours		14

Spring

PHAR 481	Hospital Pharmacy IPPE	3
PHAR 506	Pharmacy Practice V	3
PHAR 513	Pharmacoecon	3
PHAR 514E	Case Studies Pharm Ethics	3
PHAR 553 or PHAR 554	Therapeutics III or Therapeu tics IV	4

PHAR 560 or PHAR 563	Pharmaceutical Care Lab IV or Pharmaceutical Care Lab V	1
PHAR 571 or PHAR 572	Integrated Studies V or Integrate Studies VI	1
PHAR 578	Port Assess/ APPE Orient	1
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Fourth Year		
Autumn		
PHAR 579	Comm Pharm APPE	4
PHAR 581	Inpatient APPE	4
PHAR Elective Pharmacy Practice Experience		8
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Spring		
PHAR 580	Hosp Pharm APPE	4
PHAR 582	AMB Care APPE	8
PHAR Elective Pharmacy Practice Experience		8
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Required credits: 200