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.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHMY 141N</td>
<td>College Chemistry I</td>
<td>5</td>
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<tr>
<td>&amp; CHMY 142N</td>
<td>and College Chemistry I Lab</td>
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<tr>
<td>CHMY 143N</td>
<td>College Chemistry II</td>
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<tr>
<td>&amp; CHMY 144N</td>
<td>and College Chemistry II Lab</td>
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<tr>
<td>M 162</td>
<td>Applied Calculus (prereq. M 151 or appropriate placement score)</td>
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<tr>
<td>BIOH 112</td>
<td>Human Form and Function I</td>
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<tr>
<td>BIOH 113</td>
<td>Human Form and Function II</td>
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<td>WRIT 101</td>
<td>College Writing I</td>
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Pre-Pharmacy Second Year

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIOB 260</td>
<td>Cellular and Molecular Biology</td>
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CHMY 221 & CHMY 222 Organic Chemistry I and Organic Chemistry I Lab 5
ECNS 201S Principles of Microeconomics 3
PHSX 205N College Physics I 5
& PHSX 206N and College Physics I Laboratory 3-4
STAT 216 Introduction to Statistics 3
PSYX 222 Psychological Statistics 4
SOCI 202 Social Statistics 3

Either Year, any semester- Required

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<tr>
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<td>PSYX 100S</td>
<td>Intro to Psychology</td>
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<tr>
<td>THTR 120A</td>
<td>Introduction to Acting I</td>
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<tr>
<td>or COMX 111A</td>
<td>Intro to Public Speaking</td>
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</table>

Total Hours 49-50

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.

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/academics/policies-procedures) section of this catalog. See index.

First Year

<table>
<thead>
<tr>
<th>Semester</th>
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<tr>
<td>Autumn</td>
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<tr>
<td>PHAR 381</td>
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<td>PHAR 341</td>
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or PHAR 342

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<thead>
<tr>
<th>Semester</th>
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<tr>
<td>Spring</td>
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<td>BIOM 400</td>
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<td>PHAR 300</td>
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<td>PHAR 371</td>
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or PHAR 372

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<tr>
<td>PHAR 328</td>
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<td>PHAR 331</td>
<td>Pharmaceutics</td>
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<tr>
<td>PHAR 341 or PHAR 342</td>
<td>Physiological Systems I or Physiological Systems II</td>
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<td>PHAR 361 or PHAR 362</td>
<td>Pharm Sci Lab I or Pharm Sci Lab II</td>
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<td>PHAR 310</td>
<td>Pharmacy Practice II</td>
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<td>PHAR 363</td>
<td>Pharmaceutical Care Lab I</td>
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<tr>
<td>PHAR 371 or PHAR 372</td>
<td>Integrated Studies I or Integrated Studies II</td>
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### Second Year

#### Autumn

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<tr>
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<td>Medicinal Chem I or Medicinal Chem II</td>
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<td>PHAR 432</td>
<td>Clinical Pharmacokinetics</td>
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<td>PHAR 443 or PHAR 444</td>
<td>Pharmacol Toxicol I or Pharmacol Toxicol II</td>
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<tr>
<td>PHAR 451 or PHAR 452</td>
<td>Therapeutics I or Therapeutics II</td>
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<tr>
<td>PHAR 460 or PHAR 463</td>
<td>Pharmaceutical Care Lab II or Pharmaceutical Care Lab III</td>
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<td>PHAR 471 or PHAR 472</td>
<td>Integrated Studies III or Integrated Studies IV</td>
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### Third Year

#### Autumn

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<tr>
<td>PHAR 505</td>
<td>Pharmacy Practice IV</td>
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<td>PHAR 550</td>
<td>Drug Literature Eval</td>
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<td>PHAR 553 or PHAR 554</td>
<td>Therapeutics III or Therapeutics IV</td>
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<td>PHAR 557</td>
<td>Public Health in Pharmacy</td>
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<tr>
<td>PHAR 560 or PHAR 563</td>
<td>Pharmaceutical Care Lab IV or Pharmaceutical Care Lab V</td>
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<td>PHAR 571 or PHAR 572</td>
<td>Integrated Studies V or Integrated Studies VI</td>
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#### Spring

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<tbody>
<tr>
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<td>Hospital Pharmacy IPPE</td>
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<td>PHAR 506</td>
<td>Pharmacy Practice V</td>
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<td>PHAR 513</td>
<td>Pharmacoecon</td>
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<tr>
<td>PHAR 514E</td>
<td>Case Studies Pharm Ethics</td>
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<tr>
<td>PHAR 553 or PHAR 554</td>
<td>Therapeutics III or Therapeutics IV</td>
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### Fourth Year

#### Autumn
- **PHAR 579** Comm Pharm APPE 4
- **PHAR 581** Inpatient APPE 4
- **PHAR Elective Pharmacy Practice Experience** 8

**Hours** 16

#### Spring
- **PHAR 580** Hosp Pharm APPE 4
- **PHAR 582** AMB Care APPE 8
- **PHAR Elective Pharmacy Practice Experience** 8

**Hours** 20

**Total Hours** 136

**Required credits: 200**