

Pharmacy

Department Information

- **Department Location:**
Sudro Hall
- **Department Phone:**
701-231-7456
- **Department Web Site:**
www.ndsu.edu/pharmacy/ (<http://www.ndsu.edu/pharmacy/>)
- **Credential Offered:**
B.S.; Pharm.D.
- **Plan Of Study Sample:**
catalog.ndsu.edu/programs-study/undergraduate/pharmacy/ (<http://catalog.ndsu.edu/programs-study/undergraduate/pharmacy/>)

Major Requirements

Major: Doctor of Pharmacy

Degree Type: Pharm.D.

Minimum Degree Credits to Graduate: 153

Professional Pharm.D. Requirements

The following professional Pharm.D. requirements that follow are subject to change per department. Students follow the curricula developed by the School of Pharmacy and any changes that occur while in the professional program will be communicated to the students by the School of Pharmacy.

In addition to curriculum listed below, 6 credits of Professional Elective MUST be completed PRIOR to P4 year. Other changes to curriculum will be conveyed to students as they are approved.

| Code | Title | Credits |
|------------------------------------|---|---------|
| P1 First Year Professional | | |
| MICR 470 | Basic Immunology | 3 |
| PSCI 367 | Pharmaceutical Calculations | 1 |
| PSCI 368 | Pharmaceutics I | 3 |
| PSCI 369 | Pharmaceutics II | 2 |
| PSCI 410 | Pharmaceutical Biotechnology | 2 |
| PSCI 411 | Principles of Pharmacokinetics and Pharmacodynamics | 3 |
| PSCI 412 | Chemotherapeutic/Infectious Disease Pharmacodynamics | 3 |
| PSCI 470 | Pharmacokinetics | 3 |
| PHRM 301 | Top Drugs I | 1 |
| PHRM 340 | Patient Assessment and Pathophysiology I | 4 |
| PHRM 341 | Pathophysiology II | 3 |
| PHRM 351L | Pharmacy Practice Laboratory I | 2 |
| PHRM 353 | Introduction to Pharmacy and the Health Care System | 3 |
| PHRM 455 | Community Introductory Pharmacy Practice Experience | 4 |
| PHRM 480 | Drug Literature Evaluation | 3 |
| P2 Second Year Professional | | |
| CHP 400 | Interprofessional Health Care Practice | 3 |
| PSCI 413 | Endocrine/Respiratory/GI Pharmacodynamics | 3 |
| PSCI 414 | Cardiovascular Pharmacodynamics | 3 |
| PSCI 415 | Neuropsychiatry Pharmacodynamics | 3 |
| PSCI 417 | Pharmacogenomics | 2 |
| PHRM 355 | Institutional Introductory Pharmacy Practice Experience | 3 |
| PHRM 400 | Top Drugs II | 1 |
| PHRM 450 | Self Care | 3 |
| PHRM 452L | Pharmacy Practice Laboratory II | 2 |

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| PHRM 532 | Infectious Disease | 3 |
| PHRM 534 | Rheumatology/Endocrinology/Gastrointestinal | 3 |
| PHRM 535 | Hematology and Oncology | 3 |
| PHRM 538 | Cardiovascular and Pulmonary Diseases | 4 |
| PHRM 565 | Pharmacy-Based Immunization Delivery | 1 |
| P3 Third Year Professional | | |
| PHRM 500 | Top Drugs III | 1 |
| PHRM 520 | Special Populations | 3 |
| PHRM 536 | Neurology & Psychiatry Pharmacotherapy | 3 |
| PHRM 537 | Renal Disease/Fluid and Electrolytes | 2 |
| PHRM 540 | Public Health for Pharmacists | 3 |
| PHRM 545L | Pharmacotherapy Laboratory | 1 |
| PHRM 551L | Pharmacy Practice Laboratory III | 2 |
| PHRM 552L | Pharmacy Practice Laboratory IV | 2 |
| PHRM 560 | Specialty Care Topics | 2 |
| PHRM 570 | Pharmacy Practice Improvement and Project Management | 2 |
| PHRM 572 | Pharmacy Law and Ethics | 3 |
| PHRM 575 | Pharmacy Management | 3 |
| PHRM 580 | Pharmacotherapy Capstone | 3 |
| Professional Electives | List of professional electives in handbook and in Blackboard PharmD Student Community. | 6 |
| P4 Fourth Year Professional | | |
| Student will choose 8 out of 9 rotations for a total of 40 credits. Each rotation is 5 credits. | | 40 |
| PHRM 581 | Advanced Pharmacy Practice Experience - Rotation I | |
| PHRM 582 | Advanced Pharmacy Practice Experience - Rotation II | |
| PHRM 583 | Advanced Pharmacy Practice Experience - Rotation III | |
| PHRM 584 | Advanced Pharmacy Practice Experience - Rotation 4 | |
| PHRM 585 | Advanced Pharmacy Practice Experience - Rotation 5 | |
| PHRM 586 | Advanced Pharmacy Practice Experience - Rotation 6 | |
| PHRM 587 | Advanced Pharmacy Practice Experience - Rotation 7 | |
| PHRM 588 | Advanced Pharmacy Practice Experience - Rotation 8 | |
| PHRM 589 | Advanced Pharmacy Practice Experience - Rotation 9 | |

Total Credits**153**

- All applicants to the NDSU Doctor of Pharmacy program must apply using the PharmCAS admissions website. It is imperative that the NDSU Pharmacy supplemental application be completed and submitted to the NDSU School of Pharmacy by all persons wishing to be considered for acceptance into NDSU's Entry-Level Pharm.D. Program.
- The application deadline can be found on the School of P (<https://www.ndsu.edu/pharmacy/>)harmacy website (<https://www.ndsu.edu/pharmacy/>).
- PCAT: We do require the PCAT (<http://www.pearsonassessments.com/haiweb/Cultures/en-US/site/Community/PostSecondary/Products/pcat/pcathome.htm>) (Pharmacy College Admission Test). The College requires that students take either the PCAT in July, September, October or November 2021 for students applying for 2022. We will accept PCAT scores from exams taken back three years (July 2018 to November 2021).
- Applicants who are NOT currently NDSU students must submit official transcripts of previous academic work to the University's Admissions Office and one set to the NDSU School of Pharmacy.
- Students not previously enrolled at NDSU must apply both to NDSU and to the School of Pharmacy within College of Health Professions. For an NDSU application (<https://www.ndsu.edu/apply/>), contact the Office of Admissions at 701-231-8643. For International students, contact the Office of International Programs at 701-231-7895.