

Pharmacy

Department Information

- **Department Location:**
123 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.
- **Sample Program Guide:**
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: 158

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. All courses must be completed with a grade of "C" or higher or "P" if a pass/fail course.

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
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 Practice 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		
Essentials for Pharmacist Licensure I-III		
PHRM 576	Adv Therapeutics	1
PHRM 577	Clinical Clerkship I	2
PHRM 578	Non-Prescription Medications	2
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**158**

- 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/>)pharmacy 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 2022 for students applying for 2023. We will accept PCAT scores from exams taken back three years (July 2019 to November 2022).
- 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.