

# Pharmacy

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## Department Information

- **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/) (<http://catalog.ndsu.edu/programs-study/undergraduate/pharmacy/>)

## Major Requirements

### Major: Doctor of Pharmacy

Degree Type: Pharm.D.

Minimum Degree Credits to Graduate: 156

### Professional Pharm.D. Requirements

The following Pharm.D. requirements included here are subject to change per department. Students follow the curricula developed by the School of Pharmacy and any changes that occur while in the 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
<b>P1 First Year Professional</b>		
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 360	Introduction to Drug Literature	1
PHRM 455	Community Introductory Pharmacy Practice Experience	4
PHRM 565	Pharmacy-Based Immunization Delivery	1
<b>P2 Second Year Professional</b>		
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 480	Evidence Based Medicine	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
Interprofessional Health Care Course <sup>1</sup>		1
<b>P3 Third Year Professional</b>		
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 Ethical Considerations	3
PHRM 575	Pharmacy Practice Management	3
PHRM 580	Pharmacotherapy Capstone	3
<b>Professional Electives <sup>2</sup></b>		<b>6</b>
<b>P4 Fourth Year Professional</b>		
Essentials for Pharmacist Licensure I-III		
PHRM 576	Essentials for Pharmacist Licensure I (Essentials for Pharmacist Licensure I is name of course)	1
PHRM 577	Essentials for Pharmacist Licensure II (Essentials for Pharmacist Licensure II is name of course)	2
PHRM 578	Essentials for Pharmacist Licensure III (Essentials for Pharmacist Licensure III is name of the course)	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	
<b>Total Credits</b>		<b>156</b>

1

Interprofessional Health Care course currently taught as PHRM 499, a permanent number will be chosen for 2025-2026 academic year.

2

List of professional electives in handbook/Blackboard. Must be completed before P4 year.

### Students applying to the Doctor of Pharmacy Program

- Applicants who are NOT currently NDSU students must submit official transcripts of all previous academic work to the University's Admissions Office.
- Students not previously enrolled at NDSU must apply both to NDSU and to the School of Pharmacy within College of Health and Human Sciences. Visit NDSU's application page (<https://www.ndsu.edu/apply/>) to apply.