



2014-2015

NDSU Entry-level PharmD Program
Pre-Pharmacy and Professional

Curriculum

Pre-Pharmacy (Two Tracks)

Track One

Two Year Track with summer session (4 Semesters + 1 Summer Session, 76 credits, includes credit for Engl 110)

FIRST YEAR

Fall	Credits	Spring	Credits
Chem 121 General Chemistry 1*	3	Chem 122, General Chemistry II*	3
Chem 121L General Chemistry 1 Lab	1	Chem 122L, General Chemistry II Lab	1
English 120, Composition II ¹ *	3	Comm 110, Fundamentals of Public Speaking*	3
Math 146, Applied Calculus I*	4	Econ 201, Microeconomics*	3
Biol 150/150Lab, General Biology I*	3/1	Stats 330, Introductory Statistics*	3
University 189, Study Skills	1	Elective-Humanities & Fine Arts	3
Total Credits	16	Total Credits	16

SUMMER: Chem 341*/341L, Organic Chemistry I and Lab, 3 + 1 cr. and Chem 342*, Organic Chemistry II, 3 cr.

SECOND YEAR

Fall	Credits	Spring	Credits
Bioc 460, Biochemistry I*	3	Bioc 461, Biochemistry II	3
Biol 220/220Lab, Human Anatomy & Physio I*	3/1	Biol 221/221Lab, Human Anatomy & Physio II	3/1
Comm 216, Intercultural Comm*	3	Engl 324 or Engl 325, Upper division English	3
Micr 202/202Lab* or 350/350Lab*	2/1	Micr 460, Pathogenic Microbiology	3
Elective—Humanities & Fine Arts	3	Phys 211, College Physics I	3
		Wellness	2
Total Credits	16	Total Credits	18

Track Two

Three year track. Allows room for a minor of study. (6 Semesters, 94 credits, includes credit for Engl 110)

FIRST YEAR

Fall	Credits	Spring	Credits
Biology 150/150Lab, General Biology I*	3/1	Chem 122, General Chemistry II*	3
Chem 121, General Chemistry I*	3	Chem 122L, General Chem II Lab	1
Chem 121L, General Chemistry I Lab	1	Comm 110, Fundamentals/Public Speaking*	3
Math 146, Applied Calculus I*	4	Elective—Humanities & Fine Arts	3
Elective—Humanities & Fine Arts	3	English 120, Composition II ¹ *	3
University 189, Study Skills	1	Wellness	2
Total Credits	16	Total Credits	15

SECOND YEAR

Fall	Credits	Spring	Credits
Chem 341, Organic Chemistry I*	3	Chem 342, Organic Chemistry II*	3
Chem 341L, Organic Chemistry I Lab	1	Biol 221/221Lab, Human Anatomy & Physio II	3/1
Biol 220/220L, Human Anatomy & Physio I*	3/1	Phys 211, College Physics I	3
Comm 216, Intercultural Comm*	3	Credits towards minor	6
Econ 201, Microeconomics*	3		
Credits towards minor	3		
Total Credits	17	Total Credits	16

Pre-Pharmacy Curriculum (Track Two cont.)

THIRD YEAR

Fall	Credits	Spring	Credits
Bioc 460, Biochemistry I*	3	Bioc 461, Biochemistry II	3
Stat 330, Introductory Statistics*	3	Engl 324 or Engl 325, Upper division English	3
Micr 202/202Lab or 350/350Lab*	2/1	Micr 460, Pathogenic Microbiology	3
Credits towards Minor	6	Credits towards Minor	6
Total Credits	15	Total Credits	15

Professional Curriculum

P1 (37 credits)

Fall 2014	Credits	Spring 2015	Credits
PSCI 368, Pharmaceutics I	4	PSCI 369, Pharmaceutics II	2
PSCI 411, Principles of Dynamics	3	PSCI 410, Pharmaceutical Biotechnology	2
MICR 470, Basic Immunology	3	PSCI 412, Chemotherapeutic Agents (Oncology/ID)	3
PHRM 340, Pathophysiology	4	PSCI 470, Pharmacokinetics	3
PHRM 350, Introduction to Pharmacy Prax	2	PHRM 341, Pathophysiology II	4
PHRM 351, Pharmaceutical Care I	1	PHRM 352, Introduction to Healthcare Systems	2
PHRM 351L. Pharmaceutical Care I Lab	1		
Total Credits	18	Total Credits	16

SUMMER 2015: Phrm 355, Introductory Pharmacy Practice Experience (IPPE) I, 120 hours=3 credits *

P2 (38 credits)

Fall 2014	Credits	Spring 2015	Credits
PSCI 413, Endocrine/Resp/GI Dynamics	3	PSCI 415, Neuro-Psych Dynamics	3
PSCI 414, Cardiovascular Dynamics	3	PHRM 450, Self Care	3
PSCI 417, Pharmacogenomics	2	PHRM 452, Pharmaceutical Care II	1
PHRM 480, Drug Literature	3	PHRM 452L, Pharmaceutical Care II Lab	1
PHRM 532, Infectious Disease	3	PHRM 499, Interprofessional Health Care Prax	3
PHRM 535, Neoplastic Disease	3	PHRM 534, Endocrine/Rheum/GI	3
		PHRM 538, Cardiovascular/Pulmonary	4
Total Credits	17	Total Credits	18

SUMMER 2014: PHRM 455, IPPE II, 120 hours=3 credits ²

P3 (30 credits)

Fall	Credits	Spring	Credits
PHRM 475, Pharmacy Management	3	PHRM 520, Special Populations	3
PHRM 536, Neuro-Psych	3	PHRM 552, Pharmaceutical Care IV	1
PHRM 537, Renal, Fluid, & Electrolytes	3	PHRM 552L, Pharm Care Lab IV - IPPE IV	1
PHRM 540, Public Health	3	PHRM 560, Specialty Care Topics	2
PHRM 551, Pharmaceutical Care III	1	PHRM 570, Prax Improvement & Proj Mgmt	3
PHRM 551L, Pharmaceutical Care Lab III	1	PHRM 572, Pharmacy Law	2
PHRM 555, IPPE III (Public Health)	1	PHRM 580, Pharmacotherapy Capstone	3
Total Credits	15	Total Credits	15

P4 (40 credits) - PHRM 581-582-583, 40 Week Advanced Pharmacy Practice Experience (APPE)*

NOTE: If applying November 2013 and beyond

¹ Students with composite ACT scores of 20 or lower must register for English 100 and 110 Fall Semester and take Engl 120 Spring Semester. Students who complete English 120 with a "C" or higher will receive credit for English 110 with a passing grade (P).

² Students will be assigned away from Fargo/Moorhead for all or part of IPPE/APPE experiences

* Selected core courses will be used for selection criteria to determine GPA used in calculation for admission to the professional program. These courses must show evidence of letter grade, or other means of demonstrating acceptable competency (i.e. AP – CEEB) and MUST be completed by the end of fall semester prior to the December 31 deadline to apply to the pharmacy program. Remaining courses, which are required and listed in the pre-pharmacy curriculum, MUST be completed by the end of spring term. The only exception to this is that up to six credits of electives may be completed during the summer term.

(ALL courses must be completed with at least a grade of "C.")

- To apply to the professional entry-level pharmacy program at NDSU, an application must be submitted on-line to the Dean's Office, Sudro 123, by December 31. A cumulative grade point average of 3.0 or above is required before an applicant will be evaluated.
- The deadline to apply to our pharmacy program is December 31, 2014. Online application should be available the first week of November.
- PCAT: We do require the PCAT (Pharmacy College Admission Test). The College requires that students take the July, September, October, or November 2014 PCAT for students applying for 2015. We will accept PCAT scores from exams taken beginning with June of 2011 (not before). If you are interested in taking a practice test, Test Prep Review is a free service of a nonprofit group of educators. Their website was created to provide free practice test questions for students in a variety of career situations.
- Students not previously enrolled at NDSU must apply both to NDSU and to the College of Pharmacy, Nursing, and Allied Sciences. For an NDSU application, please contact the Office of Admissions at 701-231-8643. For International students, please contact the Office of International Programs at 701-231-7895.

More information can be found on this program and others within the college at: http://www.ndsu.edu/pharmacy/prospective_students/

NDSU

COLLEGE OF
PHARMACY, NURSING,
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