

# Doctor of Pharmacy, PharmD

## Requirements

The Doctor of Pharmacy (PharmD) program provides professional education in a number of areas, including pharmaceutical technology, biopharmaceutics, medicinal chemistry and natural products, pharmaceutical socioeconomics, pharmacotherapy, patient care, clinical and hospital pharmacy, and aspects of biotechnology. Graduates of the program are qualified to take the Iowa Board of Pharmacy examination that is required for licensure as a pharmacist.

The program requires four years of full-time pharmacy study preceded by at least two years of pre-pharmacy study in the College of Liberal Arts and Sciences at the University of Iowa or at an accredited community or liberal arts college in the United States or Canada. During pre-pharmacy study, students complete the prerequisites for admission to the PharmD program (see Admission [p. ] in this section of the catalog for a list of prerequisite coursework). If possible, students should complete all 20 s.h. of their general education work before they enter the PharmD program. Courses in moral reasoning or ethics, communication, computer science, business, behavioral and social sciences, and the humanities are recommended. Courses in physical education skills, applied music, and studio art do not count toward the general education electives requirement. Students must maintain a pharmacy and cumulative grade-point average of at least 2.00.

For rules and regulations concerning academic probation, pass/nonpass, credit by examination, maximum schedule, second-grade-only option, waiver or substitution of courses, cancellation of registration, and drop date, see PharmD Student Resources on the College of Pharmacy website.

The College of Pharmacy provides students with the highest possible quality in the professional experiential program. Faculty and adjunct faculty serve as preceptors, providing introductory and advanced practice experience at institutions and pharmacies in Iowa, nationwide, and around the world.

## Professional Curriculum

The PharmD degree requires the coursework listed below, including at least 6 s.h. of professional electives. In addition, students must complete all prerequisites for admission to the PharmD program, including a minimum of 16 s.h. of general education courses chosen from behavioral, social, humanistic, and business disciplines (see Admission [p. ] in this section of the catalog). They also must complete an additional 8 s.h. of general education coursework either before or after admission to the PharmD program.

### First Year, Fall

Course #	Title	Hours
PHAR:8130	Foundations of Pharmacy Practice I	4
PHAR:8131	Engagement: Professional Skills and Values	1

PHAR:8133	Introductory Pharmacy Practice Experience Career Exploration (unless taken spring semester)	1
PHAR:8134	Foundations of Health Services	3
PHAR:8135	Health Information Retrieval and Informatics	3
PHAR:8136	Foundations of Pharmaceutical Sciences	6
PHAR:8152	Fundamentals of Compounding	1

### First Year, Spring

Course #	Title	Hours
PHAR:8133	Introductory Pharmacy Practice Experience Career Exploration (unless taken first semester)	1
PHAR:8140	Foundations of Pharmacy Practice II	4
PHAR:8148	Pharmacokinetics and Dose Optimization	2
PHAR:8149	Foundations of Pharmacology and Toxicology	3
PHAR:8150	Foundations of Health, Wellness, and Disease	2
PHAR:8151	Discovery I: Introduction and Background	3
PHAR:8153	Integrated Pharmacotherapy: Dermatology and Sensory	2

### Second Professional Year, Fall

Course #	Title	Hours
PHAR:8207	Introductory Pharmacy Practice Experiences Community (may be taken in a different semester)	3
PHAR:8209	Introductory Pharmacy Practice Experiences Hospital (may be taken in first or second semester of second year)	3
PHAR:8250	Applications of Pharmacy Practice I	2
PHAR:8254	Integrated Pharmacotherapy: Endocrine	3
PHAR:8255	Discovery II: Design and Methods	1
PHAR:8256	Integrated Pharmacotherapy: Renal, Fluids, and Electrolytes	2
PHAR:8260	Integrated Pharmacotherapy: Cardiovascular	4
PHAR:8275	Advanced Health Services	2

## Second Professional Year, Spring

Course #	Title	Hours
PHAR:8207	Introductory Pharmacy Practice Experiences Community (may be taken in a different semester)	3
PHAR:8260	Integrated Pharmacotherapy: Cardiovascular	4
PHAR:8261	Integrated Pharmacotherapy: Neurology and Psychiatry	4
PHAR:8263	Integrated Pharmacotherapy: Infectious Diseases	4
PHAR:8264	Discovery III: Data Collection and Results	1
PHAR:8265	Applications of Pharmacy Practice II	2

## Third Professional Year, Fall

Course #	Title	Hours
PHAR:8301	Introductory Pharmacy Practice Experience Clinical	1
PHAR:8370	Integrated Pharmacotherapy: Respiratory and Allergy	2
PHAR:8371	Integrated Pharmacotherapy: Oncology and Hematology	2
PHAR:8372	Integrated Pharmacotherapy: Gastroenterology and Nutrition	3
PHAR:8373	Integrated Pharmacotherapy: Renal, Fluids, and Electrolytes	2
PHAR:8374	Applications of Pharmacy Practice III	2
PHAR:8375	Advanced Topics in Health Services	2
PHAR:8376	Discovery IV: Presentation of Results	1

## Third Professional Year, Spring

Course #	Title	Hours
PHAR:8132	Continuing Professional Development	1
PHAR:8377	Integrated Pharmacotherapy: Capstone	4
PHAR:8378	Pharmacy Law and Ethics	2
PHAR:8379	Advanced Pharmacy Practice Experiences Preparation	1

## Third Year Spring Semester and Fourth Year: Advanced Pharmacy Practice Rotations

During the spring semester of the third year, students may choose to complete one or two rotations in addition to the eight rotations required during the fourth year. During the fourth year, students must complete eight advanced

pharmacy practice rotations. All students must complete the first four rotations listed below (24 s.h.); the remaining rotations may be selected by each student.

Course #	Title	Hours
All of these:		
PHAR:9401	Ambulatory Care Rotation	6
PHAR:9404	Community Clinical Rotation	6
PHAR:9410	Hospital Pharmacy Rotation	6
PHAR:9413	Acute Care Medicine Rotation	6
Four of these:		
PHAR:9402	Elective Ambulatory Care Rotation	6
PHAR:9403	Elective Nuclear Pharmacy Rotation	6
PHAR:9406	Elective: Drug Information Rotation	6
PHAR:9407	Elective Family Medicine Rotation	6
PHAR:9408	Elective Hematology/Oncology Rotation	6
PHAR:9409	Elective Home Health Care Rotation	6
PHAR:9411	Elective Long Term Care Rotation	6
PHAR:9412	Elective Managed Care Rotation	6
PHAR:9415	Elective: Pediatrics Rotation	6
PHAR:9416	Elective: Pharmacy Rotation	6
PHAR:9417	Elective Psychiatry Rotation	6
PHAR:9418	Elective Research Rotation	6
PHAR:9419	Elective: Surgery Rotation	6
PHAR:9420	Elective Pharmacy Practice Underserved Population Rotation	6
PHAR:9422	Elective: Compounding/Complementary Alternative Medicine Rotation	6
PHAR:9423	Elective: Critical Care Medicine Rotation	6
PHAR:9424	Elective Emergency Medicine Rotation	6
PHAR:9425	Elective Hospital Management Rotation	6
PHAR:9426	Elective Infectious Disease Rotation	6
PHAR:9427	Elective Medication Use Evaluation Rotation	6
PHAR:9428	Elective Pharmacy Industry Rotation	6
PHAR:9429	Elective: Pharmacy Regulatory Rotation	6
PHAR:9430	Elective: Professional Association Rotation	6
PHAR:9431	Elective: Veterinary Pharmacy Rotation	6
PHAR:9432	Elective Community Rotation	6
PHAR:9433	Elective Academic Rotation	6

PHAR:9440	Elective Virtual Rotation	6
PHAR:9441	Elective Neurology Rotation	6

## Professional Electives

PharmD students must complete at least 6 s.h. of professional electives, which they may choose from the following list.

Course #	Title	Hours
PHAR:4741	Immunology and Immunotherapies	2
PHAR:8500	Advanced Drug Literature Evaluation and Application	2
PHAR:8501	Introduction to Nuclear Pharmacy	2
PHAR:8502	Advanced Pharmacopalliation of Pain	2
PHAR:8503	Advanced Pharmacopalliation of Non-Pain Symptoms	3
PHAR:8505	Advanced Topics in Infectious Disease, HIV, and Antimicrobial Therapy	2
PHAR:8506	Health Informatics Essentials	2
PHAR:8508	Interprofessional Case Studies	2
PHAR:8509	Leaders Read: A Book Club Elective	2
PHAR:8510	Pediatric Elective	1
PHAR:8511	Introduction to Specialty Pharmacy	2
PHAR:8512	Advanced Drug Literature I: Study Design, Evaluation, and Interpretation	1
PHAR:8513	Advanced Drug Literature II: Evaluation and Clinical Application	1
PHAR:8706	Pharmacy Projects	1-3
PHAR:8708	Substances of Misuse	2
PHAR:8709	Pharmacist Role in Health Coaching and Nutrition	2
PHAR:8712	Nonprescription Pharmacotherapy and Self-Care	2
PHAR:8717	Ambulatory Care Pharmacy	2
PHAR:8718	Special Topics in Acute Care	2
PHAR:8721	Leadership and Political Advocacy	arr.
PHAR:8722	Current Topics in Health Policy	2
PHAR:8724	Health System Pharmacy Practice Management	2
PHAR:8725	Career Pathways in Pharmacy	1
PHAR:8790	Sustainable Clinical Pharmacy Services: Leadership, Management, and Implementation	2
PHAR:8793	Introduction to Global Health Studies	1
PHAR:8794	Emergency Medicine and Toxicology	2

PHAR:8795	More than Medications: Healthcare for the Whole Patient	2
PHAR:8796	Introduction to Travel Medicine	1
PHAR:8797	Ethics and Spirituality in Health Care	3
PHAR:8798	Continuing Professional Development in Palliative Care	1
PHAR:8799	Active Residency Preparation	2