

# Doctor of Pharmacy

## Admission to the Doctor of Pharmacy Program

### Admission Criteria

- The recommended high school background for students planning to pursue pharmacy includes four units of mathematics and three units of natural science (biology, chemistry and physics)
- The pre-pharmacy curriculum must be completed by the end of spring semester (with the exception of biochemistry) of the admission year
- Applicants are encouraged to obtain pharmacy experience prior to applying, by either shadowing or working in a paid position

### Admission Options

**Early Decision:** An option for students who know Idaho State University is their college of first choice. A minimum GPA of 2.75 is required. The application deadline is September 3.

**Regular Application:** The traditional option for students who are completing the pre-pharmacy and general education requirements by the end of the spring semester of the admission year. A minimum GPA of 2.5 is required. The application deadline is February 1.

Both options lead to admission into the same Doctor of Pharmacy program.

### Application Process

Applications submitted to PharmCAS (<http://pharmcas.org> (<http://pharmcas.org/>)) between August and February each year are reviewed as they are completed. Applicants receive campus interview decisions within 30 days.

Multiple interview dates are available during the fall and spring semesters. Applicants receive acceptance decisions within 30 days.

### Application Materials

All PharmD application materials must be received by PharmCAS by the application deadline:

- Completed PharmCAS application for Idaho State University College of Pharmacy, PharmCAS application fee begins at \$175
- Official transcripts of all previous college course work, including detailed evaluation of all international coursework
- Three letters of recommendation, one of which must be from a pharmacist
- Personal Statement

Students with international coursework to be considered must submit an official detailed evaluation report from an institution that is a member of the National Association of Credential Services Incorporated (NACSI) and meet Idaho State University's admission requirements for international students ([www.isu.edu/iso/admission](http://www.isu.edu/iso/admission) (<http://www.isu.edu/iso/admission/>)).

### Pre-Pharmacy Courses

Code	Title	Credits
BIOL 1101 & 1101L	Biology I and Biology I Lab (Partially satisfies General Education Objective 5)	4
BIOL 2221 & 2221L	Introductory Microbiology and Introductory Microbiology Laboratory	4
or BIOL 2235 & 2235L	General Microbiology and General Microbiology Lab	

BIOL 2227 & 2227L	Human Anatomy and Physiology 1 and Human Anatomy and Physiology 1 Lab (Partially satisfies General Education Objective 5)	4
or BIOL 3301 & 3301L	Advanced Human Anatomy and Physiology 1 and Advanced Human Anatomy and Physiology 1 Lab	
BIOL 2228 & 2228L	Human Anatomy and Physiology 2 and Human Anatomy and Physiology 2 Lab	4
or BIOL 3302 & 3302L	Advanced Human Anatomy and Physiology 2 and Advanced Human Anatomy and Physiology 2 Lab	
BIOL 4432	Biochemistry	3
CHEM 1111 & 1111L	General Chemistry I and General Chemistry I Lab (Partially satisfies General Education Objective 5)	5
CHEM 1112 & 1112L	General Chemistry II and General Chemistry II Lab (Partially satisfies General Education Objective 5)	4
MATH 1153	Statistical Reasoning (Satisfies General Education Objective 3)	3
MATH 1160	Survey of Calculus (Satisfies General Education Objective 3)	3
CHEM 3301 & CHEM 3303	Organic Chemistry I and Organic Chemistry Laboratory I	4
CHEM 3302 & CHEM 3304	Organic Chemistry II and Organic Chemistry Laboratory II	4
PHYS 1111	General Physics I (Partially satisfies General Education Objective 5)	3
ECON 2201	Principles of Macroeconomics	3
or ECON 2202	Principles of Microeconomics	

Each of the 2 courses above partially satisfies General Education Objective 6. An additional Objective 6 course in another subject must be taken to complete Objective 6 requirements.

### Applicant must meet ISU General Education Requirements

#### Additional Recommended Elective

PHYS 1112	General Physics II (Partially satisfies General Education Objective 5)
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### Applicants must have completed 72 credits of undergraduate coursework.

Fulfillment of the specified requirements does not ensure admission into the Doctor of Pharmacy program.

### Evaluation of Applicants

- Up to 95 students are admitted each year
- Faculty select the applicants best predicted to complete the curriculum and have productive professional lives
- Invitation for applicants to schedule a campus interview is based upon academic success and other required components of the application
- Preference is given to Idaho and Alaska residents

- Following interview, applicants are notified of their placement into one of three categories:
  - Admission
  - Reserve for possible admission pending available positions
  - No admission

New students are admitted to begin the professional program only in the fall semester each year. All students must be certified in CPR/AED for health care providers and first-aid and demonstrate immunization compliance prior to entering the first professional year. A criminal background check is required.

## Admission Under Special Circumstances

### Transfer from Other Schools of Pharmacy

Students wishing to transfer from another college of pharmacy should present the following materials to the College of Pharmacy's Associate Dean for Student Affairs before being considered:

1. A letter from the Dean of the previous college of pharmacy certifying status of good academic standing
2. Official transcripts of all pharmacy courses completed to date and that show pre-pharmacy requirements of Idaho State University are complete
3. A letter requesting evaluation of class standing

## Curricular Philosophy

We view the curriculum as a tool to develop professionals who assume responsibility for their own learning and who are committed to the advancement of pharmacy practice. The primary curricular goal is the development of a strong foundational knowledge in the biomedical, pharmaceutical and clinical sciences that inculcates a drug-related problem-solving process specific to pharmacy and fosters an evidenced-based approach to optimizing pharmacotherapy and patient health outcomes. We embrace diversity in innovative teaching methods through sound instructional design and encourage the integration of active learning, and multiple curricular and co-curricular opportunities for leadership and professional development. Because it is a dynamic work in progress, we continue to experiment, assess, revise, and innovate within our curriculum to graduate highly competent practitioners.

## Professional Curriculum

The professional curriculum requires four years of study. The first three years are a mix of academic courses and practice experiences. The fourth year is comprised of 42 weeks of clinical experiences.

The Doctor of Pharmacy degree can be completed in Pocatello or Meridian, Idaho or in Anchorage, Alaska. Students may complete their fourth year at our clinical sites in Idaho (Meridian, Pocatello, Twin Falls, Coeur d'Alene), at our experiential sites in the Anchorage, Alaska region, or in Reno, Nevada.

The first professional year provides a foundation in the basic and pharmaceutical sciences that includes physiology, biochemistry, pharmacology and pharmaceuticals. Other courses provide a foundation for professional development that includes topics on ethics, law, drug information, research design, patient care, and the health care system.

Courses and clinical experiences in the second and third professional years build on accrued knowledge and skills. The curriculum centers on an integrated, organ-system approach to the therapeutic management of disease. Additional courses

provide insight into the human relation aspects of pharmacy, dosage form design, pharmacy management and physical assessment. A series of case studies courses, designed to enhance the student's knowledge base and problem-solving skills while focusing on the application of knowledge to specific patient cases, spans the first three years.

The last 42 weeks, or the fourth professional year, is devoted to full-time clinical experience in various pharmacy practice environments. Students will complete six-week experiences in various areas of practice. Students will also have the option of selecting an elective in an area of interest.

Given the length of the final year of the PharmD program, students will begin practice experiences in mid-May after completing their third academic year in the professional program and will continue throughout the ensuing twelve (12) months.

## Pharmacy Courses

Code	Title	Credits
PHAR 9911	Introductory Pharmacy Practice Experience I	1
PHAR 9921	Biological Basis of Drug Actions I	4
PHAR 9924	Physicochemical Basis of Drug Action	3
PHAR 9931	Health Care I	3
PHAR 9941 & 9941L	Introduction to Pharmacy Practice and Literature I with Lab and Pharmacy Practice and Literature I Lab	4
PHAR 9949 & 9949R	Human Physiology I and Human Physiology I Recitation	4
PHAR 9905	Introduction to Clinical Problem Solving	2
PHAR 9912	Introductory Pharmacy Practice Experience II	1
PHAR 9922	Biological Basis of Drug Actions II	5
PHAR 9923	Professional Development I	0
PHAR 9926 & 9926R	Basic Pharmacokinetics and Calculations and Basic Pharmacokinetics and Calculations Recitation	4
PHAR 9942	Introduction to Pharmacy Practice and Literature II	3
PHAR 9956 & 9956R	Human Physiology II and Human Physiology II Recitation	4
PHAR 9906	Case Studies With Pharmacotherapy Lab I	2
PHAR 9927 & 9927L	Dosage Form Design and Compounding with Lab and Dosage Form Design and Compounding Lab	4
PHAR 9961	Pharmacotherapy I	2-5
PHAR 9962	Pharmacotherapy II	2-5
PHAR 9907	Case Studies with Pharmacotherapy Lab II	2
PHAR 9913	Introductory Pharmacy Practice Experience III	1
PHAR 9933	Professional Development II	0
PHAR 9944 & 9944L	Health Care II and Health Care II Lab	4

PHAR 9963	Pharmacotherapy III	2-5
PHAR 9964	Pharmacotherapy IV	2-5
PHAR 9965	Pharmacotherapy V	2-5
PHAR 9966	Pharmacotherapy VI	2-5
PHAR 9908	Case Studies with Pharmacotherapy Lab III	2
PHAR 9945 & 9945L	Health Care III and Health Care III Lab	4
PHAR 9967	Pharmacotherapy VII	2-5
PHAR 9968	Pharmacotherapy VIII	2-5
PHAR 9914	Introductory Pharmacy Practice Experience IV	1
PHAR 9943	Professional Development III	1
PHAR 9948	Pharmacy Law	2
PHAR 9952	Pharmacotherapy Lab IV	1
PHAR 9969	Pharmacotherapy IX	2-5
PHAR 9970	Pharmacotherapy X	2-5
PHAR 9971 & 9971R	Capstone Pharmacy and Capstone Recitation	2-5
PHAR 9981	Advanced Pharmacy Practice Experience (Students will take 49 credits of PHAR 9981)	7
PHAR 9982	Professional Student Seminar	1
Electives <sup>1</sup>		6

**Student must fulfill ISU General Education requirements.**

<sup>1</sup> A minimum of six (6) elective credits must be completed prior to beginning APPEs. Elective courses must have relevance to the healthcare profession and serve to enhance the professional skills and knowledge of the student. For more information, refer to the ISU College of Pharmacy Student Handbook (<https://isu.edu/media/libraries/pharmacy/documents/2018-19-Handbook.pdf>).

## Plan of Study

### First Professional Year (P-1) Curriculum

Fall	Credits	Spring	Credits	Summer	Credits
PHAR 9910	0	PHAR 9905	2	PHAR 9911 <sup>1</sup>	1
PHAR 9921	4	PHAR 9910	0		
PHAR 9924	3	PHAR 9912	1		
PHAR 9931	3	PHAR 9922	5		
PHAR 9941 & 9941L	4	PHAR 9923	0		
PHAR 9949 & 9949R	4	PHAR 9926 & 9926R	4		
		PHAR 9942	3		

	PHAR 9956 & 9956R	4
	18	19
		1

Total Credits: 38

<sup>1</sup> The requirement for PHAR 9911 is fulfilled for students who provide evidence of completion of online coursework as well as externship in a licensed or public health pharmacy which has been approved by the College of Pharmacy, the State Board of Pharmacy that has authority over the pharmacy and which was supervised by a licensed preceptor. Students must be enrolled in PHAR 9911 and have completed identified components of the course prior to obtaining extern requirements.

### Second Professional Year (P-2) Curriculum

Fall	Credits	Spring	Credits
PHAR 9906	2	PHAR 9907	2
PHAR 9920	0	PHAR 9913	1
PHAR 9927 & 9927L	4	PHAR 9920	0
PHAR 9961	2-5	PHAR 9933	0
PHAR 9962	2-5	PHAR 9944 & 9944L	4
		PHAR 9963	2-5
		PHAR 9964	2-5
		PHAR 9965	2-5
		PHAR 9966	2-5
	10-16		15-27

Total Credits: 25-43

### Third Professional Year (P-3) Curriculum

Fall	Credits	Spring	Credits
PHAR 9908	2	PHAR 9914	1
PHAR 9930	0	PHAR 9930	0
PHAR 9945 & 9945L	4	PHAR 9943	1
PHAR 9967	2-5	PHAR 9948	2
PHAR 9968	2-5	PHAR 9952	1
		PHAR 9969	2-5
		PHAR 9970	2-5

	PHAR 9971 & 9971R	2-5
10-16		11-20

Total Credits: 21-36

**Electives**

Code	Title	Credits
Electives (may be taken in any semester)		6
Total Credits		6

**Fourth Professional Year (P-4) Curriculum****Full Calendar Year**

Code	Title	Credits
PHAR 9981	Advanced Pharmacy Practice Experience (49 total credits) <sup>1</sup>	7
PHAR 9982	Professional Student Seminar	1
Total Credits		8

<sup>1</sup> The following experiences are taken as PHAR 9981 Advanced Pharmacy Practice Experiences (APPE):  
 Ambulatory Care - 6 weeks  
 Advanced Community - 6 weeks  
 Advanced Institutional - 6 weeks  
 General Medicine - 6 weeks  
 Patient Care/Elective - 18 weeks (A maximum of 12 weeks of experience is allowed in any specialty practice area.)  
 TOTAL: 42 weeks

**Total for Doctor of Pharmacy Degree, including a minimum of 6 elective credits: 228**