

# Presbyterian College School of Pharmacy



## Concentrations

*March 2026*

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## About the Concentrations

Beginning in January of 2023, pharmacy students enrolled at Presbyterian College School of Pharmacy (PCSP) will have the opportunity to apply to participate in one of three optional concentrations. These areas of concentration, (1) Innovation and Entrepreneurship, (2) Public and Rural Health, and (3) Research, are designed to help students develop deeper knowledge and skills for the field of pharmacy, as well as help secure competitive fellowships, residencies, and jobs after graduation. Students can complete the requirements of their chosen area of concentration without adding additional time to complete their Doctor of Pharmacy degree.

Pharmacy students may apply for a concentration area during the fall of their P2 year (by October 6) with plans to begin work toward their concentration in the spring of their P2 year. In general, a 3.0 or higher GPA in the first-year (P1) courses and beyond is preferred but not required.

A detailed checklist of the requirements for each concentration is provided to guide the student through the process. Part of the application process involves the student interviewing a pharmacist/researcher working in their chosen area of concentration (outside of the School of Pharmacy) by the end of the Fall of the P2 year. The Office of Academic Affairs is compiling a list of alumni and preceptors who are willing to be interviewed and serve as mentors, if needed. Among other requirements, students will work with the Office of Experiential Education to be placed in one or more IPPE and/or APPE rotations related to their area of concentration.

# Innovation and Entrepreneurship (IE) Concentration

## Requirements for Innovation and Entrepreneurship (IE) Concentration

Requirements for IE Concentration		Details and Deadlines	Date Completed
<b>P1</b>	Successfully complete P1 curriculum and GAP Requirements		
	Attend one IE event		
	Conduct and reflect on an interview with a pharmacist who demonstrates an entrepreneurial or business spirit and is employed outside of the School of Pharmacy	Complete between P1 year and end of Fall P2	
<b>P2</b>	Apply for the Innovation & Entrepreneurship (IE) special concentration by November 1 through the PCSP Office of Academic Affairs	P2 Fall Semester	
	Complete PHRM 9020 Entrepreneurial Development elective course <ul style="list-style-type: none"> <li>Includes the Kauffman Foundation's "Planning the Entrepreneurial Venture" FastTrac® certificate</li> </ul>	P2 Spring Semester	
	Attend 1 additional IE event, or other approved offering		
<b>P3</b>	Participate in a business plan competition or bootcamp as determined by the IE program director	P3 Fall or Spring Semester	
	Attend 1 additional IE event, or other approved offering		
<b>P4</b>	Complete an entrepreneurial-focused advanced pharmacy practice experience (APPE) elective rotation (Coordinated by PCSP's Office of Experiential Education)	APPE: _____	
	Stemming from elective and APPE experiences, develop and present a detailed and comprehensive business plan for a new service or improvement to a current service or business operation.	Complete by April 30 of P4 year	
	Complete a 1-page entrepreneurial reflection and evaluation of the certificate program		

## IE Concentration Benefits

Completing the Innovation & Entrepreneurship (IE) Concentration offers opportunities and benefits, including:

- Learn the skills and aptitudes to start, grow, and sustain a successful business or service;
- Network with seasoned and aspiring entrepreneurs and become part of a regional or national entrepreneurial ecosystem;
- Receive a travel stipend to attend a professional meeting or entrepreneurship bootcamp as funding is available; and,
- Earn a concentration certificate from PCSP along with the Doctor of Pharmacy degree.

## Qualifying Elective Courses and Descriptions for IE Concentration

*(May include but not be limited to the following and subject to change)*

### **PHRM 9020, Entrepreneurial Development**

This course is required for students wishing to complete the Presbyterian College School of Pharmacy's Center for Entrepreneurial Development (CED) concentration. Offered in spring of the second year, students will complete the Kauffman Foundation's "Planning the Entrepreneurial Venture" Fasttrac® certificate over the course of the semester. This course is intended to provide foundational knowledge needed to successfully launch a business. Students will develop an individual business plan throughout the course and will present this plan during their third year, as another component that is required for the CED certificate. (P2 year; 2 lecture hours per week)

# Public and Rural Health Concentration

## Requirements for Public and Rural Health Concentration

	Requirements for Public and Rural Health Concentration	Details and Deadlines	Date Completed	
P1	Successfully complete P1 curriculum			
	Conduct and reflect on an interview with a pharmacist in public or rural health practice employed outside of the School of Pharmacy	Complete between P1 year and end of Fall P2		
P2	<b>Fall P2:</b> Apply for public health special concentration by November 1 through PCSP Office of Academic Affairs	Fall P2 Semester		
	<b>Fall P2:</b> Apply for the <a href="#">AHEC Scholars Program</a> by November 15 (after approved by PCSP Academic Affairs to participate in concentration)	Fall P2 Semester		
	<b>Spring P2:</b> [Begin Year 1] Attend AHEC Scholars orientation (virtual)	Spring P2 Semester		
	<b>Spring P2:</b> Complete baseline evaluation survey (AHEC)			
	<b>Spring P2/Summer:</b> Complete required online modules (AHEC) (15 hours)	AHEC Scholars Introduction (2 hours)		
		Introduction to SC AHEC Core Topics (1 hour)		
Telepresenter Certification (2 hours)				
TeamSTEPPS® for Office-Based Care (10 hours)				
<b>Spring P2/Summer:</b> Complete at least 10 additional contact hours of didactic activities (AHEC online modules or PCSP Elective/Independent Study) * See appendix for qualifying elective courses and descriptions. Each 2-credit hour PCSP elective course satisfies 30 hours of AHEC elective didactic activities.	Must include at least 1 elective telehealth module.			

	<b>Spring P2 (or Fall P3):</b> Participate in <u>at least one Interprofessional Team Case Conference</u> (AHEC) (live or self-paced)	Offered online monthly 5:30-7pm	
	<b>Spring P2 (or Fall P3):</b> Complete 40 contact hours of experiential activities [Coordinated by PCSP's Office of Experiential Education (OEE)]	Will be assigned to applicable Introductory Pharmacy Practice Experience (IPPE) in Spring P2 Semester <i>or</i> Fall P3 Semester	
<b>P3</b>	<b>Fall P3:</b> [End Year 1] Complete remaining didactic activities to achieve the required 40 cumulative hours by the end of Fall P3 (AHEC online modules or PCSP Elective/Independent Study). * Refer to the qualifying elective courses and descriptions. Each 2-credit hour PCSP elective course satisfies 30 hours of AHEC elective didactic activities.	Minimum year-1 cumulative total of 40 hours by end of Fall P3 ( <i>end of AHEC year 1</i> )	
	<b>Spring P3:</b> [Begin Year 2] Complete required online modules (AHEC)	Quality Improvement Fundamentals & Methodology (6 hours)	
		Practice Transformation (1.5 hours)	
	<b>Spring P3:</b> Complete at least 15 additional contact hours of didactic activities (AHEC online modules or PCSP Elective/Independent Study)* See appendix for qualifying elective courses and descriptions. Each 2-credit hour PCSP elective course satisfies 30 hours of AHEC elective didactic activities.	Complete by the end of Spring P3 ( <i>first half of AHEC Year 2</i> )	
	<b>Spring P3/Fall P4:</b> Participate in <u>at least one Interprofessional Team Case Conference</u> <u>with</u> standardized patient (AHEC)		
<b>P4</b>	<b>Summer-Fall P4:</b> Complete at least one advanced pharmacy practice experience (APPE) rotations (4 credit hours) with public or rural health emphasis [Coordinated by PCSP's Office of Experiential Education (OEE)]	Will be assigned to at least 1 required or elective Advanced Pharmacy Practice Experience (APPE)  APPE: _____	
	<b>Summer-Fall P4:</b> Complete remaining didactic activities to achieve the minimum of 40 hours by the end of Fall P4 (Refer to AHEC online modules if hours are not complete)	Minimum year-2 cumulative total of 40 hours by end of Fall P4 ( <i>end of AHEC year 2</i> )	

<b>Fall-Spring P4: AHEC Scholars Capstone or High-Fidelity Simulation</b>	Complete before end of Spring P4 semester	
<b>Spring P4: Complete AHEC Scholars end-of-program evaluation</b>	Complete before end of Spring P4 semester	
<b>Spring P4: Complete a 1-page reflection and evaluation of the concentration program</b>	Complete before end of Spring P4 semester	

\*A minimum of 40 hours must be completed by the end of AHEC year 1 (Spring P2 through Fall P3) and an additional minimum of 40 hours must be completed by the end of year 2 (Spring P3 through Fall P4). Only select PCSP electives are applicable. Each applicable PCSP elective/Independent Study course is worth 2 academic credit hours which is equivalent to 30 AHEC Scholars hours. View the attached appendix for qualifying elective courses and their descriptions.

## Benefits of a Public and Rural Health Concentration

Completing the Public and Rural Health Concentration at Presbyterian College School of Pharmacy (PCSP) while being an Area Health Education Center (AHEC) Scholar offers many opportunities and benefits, including:

- \$500/year stipend if active in the program (up to \$1,000 total)
- Receive mentoring opportunities and network with established leaders in primary care and rural health
- Network with other AHEC Scholars in SC and across the nation
- Be eligible for AHEC-funded stipends to assist with professional development and travel expenses to rural clinical sites
- Receive priority for PCSP-funded stipends to assist with traveling and attending professional meetings as funding is available
- Be more competitive for SC AHEC rural incentive grants
- Receive preference for innovative team-based clinical fieldwork placements/rotations
- Achieve a nationally recognized certificate through AHEC that indicates the graduate is a leader with experience in public and rural health
- Receive a concentration certificate from PCSP along with the Doctor of Pharmacy degree
- Be more competitive for post-graduate employment in public or rural health with potential eligibility for public health loan forgiveness/debt repayment programs

Additional information regarding the AHEC Scholars program can be found at <https://www.scahec.net/docs/AHEC-Scholars-Handbook.pdf>.

## Qualifying Elective Courses and Descriptions for Public and Rural Health Concentration

*(May include but not limited to the following and subject to change)*

### **PHRM 6291, Independent Study: Pharmacy Practice**

This course is an independent study elective. Students may arrange to take this elective with participating faculty members in the department of pharmacy practice. This is a directed course in which the faculty member and the student will select an area of mutual interest and the student will work with the faculty member pursuing scholarship in this area. (P2 year; spring semester)

### **PHRM 7191, Independent Study: Pharmacy Practice**

This course is an independent study elective. Students may arrange to take this elective with participating faculty members in the department of pharmacy practice. This is a directed course in which the faculty member and the student will select an area of mutual interest and the student will work with the faculty member pursuing scholarship in this area. (P3 year; fall semester)

### **PHRM 7291, Independent Study: Pharmacy Practice**

This course is an independent study elective. Students may arrange to take this elective with participating faculty members in the department of pharmacy practice. This is a directed course in which the faculty member and the student will select an area of mutual interest and the student will work with the faculty member pursuing scholarship in this area. (P3 year; spring semester)

### **PHRM 9001, Spanish for Pharmacists**

This course is intended to prepare pharmacy students to successfully interact with Spanish speaking patients. Grammar skills are developed in the context of specific communicative tasks such as giving and asking for medical information/medical history, giving specific instructions and warnings to patients on medications. In addition to the practice and mastery of linguistic forms, students will also be provided with essential pharmaceutical/medical terminology. (P2 or P3 year; two 1-hour lectures per week)

### **PHRM 9002, Pharmacy Advocacy**

This course is designed to expose students to advocacy in the pharmacy profession and advocacy for the healthcare patient. (P2 or P3 year; 2 lecture hours per week)

### **PHRM 9003, Health Promotion & Disease Prevention**

This course is designed to expose the student to pharmacy's role in public health. Ethical and legal issues as well as cultural competence in public health will be discussed. Students will be exposed to prevention strategies and challenges to providing healthcare in rural settings. Bioterrorism and pharmacy's role will be introduced. (P2 or P3 year; 2 lecture hours per week)

### **PHRM 9010, Drugs of Abuse**

This course will be a mixture of lectures and student presentations which focus on the pathophysiology and social impact of drugs of abuse. Addiction and recovery principles and legal issues surrounding substance abuse will be addressed. (P3 year; 2 lecture hours per week)

**PHRM 9022, Tobacco Use, Addiction and Cessation**

This course will explore the history of tobacco including products, marketing, industry influences and impact along with the concepts of managing addiction and promoting tobacco cessation. (P2 or P3 year; 2 lecture hours per week)

**PHRM 9032, Social Determinants of Health (AHEC Scholars)**

This course will explore social determinants of health (SDOH), the conditions in the environments where people are born, live, learn, work, play, worship, and age, and their impact on health, well-being, and quality of life. SDOH contribute to health disparities and inequities, and rural residents are disproportionately impacted. Training health care workers to address SDOH is considered one of the key principles for promoting more equitable health outcomes for patients, families, and communities, and is a primary aim of this course. (P2 or P3 if enrolled in the Public and Rural Health Concentration and AHEC Scholars Program; 2 lecture hours per week)

## Checklist for Research Concentration

Requirements for Research Concentration	Details and Deadlines	Date Completed
<b>P1</b> Successfully complete P1 curriculum		
	Complete between P1 year and end of Fall P2 year	
<b>P2</b> Apply for the research special concentration by November 1 through the PCSP Office of Academic Affairs	Fall P2 Semester	
Pair with a mentor for research topic area of interest		
Complete at least 2 hours of supplemental education* (e.g., professional meeting, online education, PRSI, etc.) <i>or</i> equivalent experience on research (to be approved by the Presbyterian College School of Pharmacy Office of Research and/or concentration mentor)		
Complete <u>one</u> elective experience with research emphasis in Spring Semester <i>or</i> equivalent experience ( <i>beyond/not including the PRSI program</i> ). Refer to appendix for course offerings and descriptions.	PHRM 9021 (Translational Research), PHRM 9028 (Academic and Clinical Research), or another applicable elective  May also consider an independent study course** PHRM 6290 or 6291	

<b>P3</b>	Complete <u>one</u> elective experience with research emphasis in Fall <i>or</i> Spring Semester <i>or</i> equivalent experience ( <i>beyond/not including the PRSI program</i> ). Refer to appendix for course offerings and descriptions.	Applicable elective or independent study course** PHRM 7190, 7191, 7290, 7291	
	Complete at least 3-6 hours of supplemental education* (e.g., professional meeting, online education, PRSI etc.) <i>or</i> equivalent experience on research topic (to be approved by the Presbyterian College School of Pharmacy Office of Research and/or concentration mentor)		
	Complete applicable trainings including, but not limited, to the following: <ul style="list-style-type: none"> <li>• Collaborative Institutional Training Initiative (CITI Program)</li> <li>• Lab safety</li> <li>• Bloodborne Pathogens</li> <li>• HIPAA</li> </ul>		
	Select and conduct research on topic area of interest		
<b>P4</b>	Complete 4 credit hours (1 rotation) of advanced pharmacy practice experience in research (to be coordinated by the Office of Experiential Education in conjunction with the Office of Research)	PHRM 8172, APPE Research Pharmacy Elective (Customizable for bench research, pharmacy practice research, or evidence-based medicine)	
	Present a poster presentation (e.g., Honors Day, professional meeting) on the research project***		
	Submit or make significant contributions to the submission of a written manuscript for publication describing the research project and current outcomes as determined appropriate by the research mentor.****		

Complete a 1-page reflection and evaluation of the certificate program		
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\*May be obtained through the education components offered as part of the Pharmacy Research Summer Intern (PRSI) program regardless of the student being officially enrolled in the PRSI program or not.

\*\*No more than 1 independent study is recommended as an elective choice from P2 Spring through P3 Spring.

\*\*\*If applicable, may be the same research topic presented at conclusion of the PRSI program but additional work must have been performed upon conclusion of the PRSI experience to qualify.

\*\*\*\*Participating students are highly encouraged to submit a manuscript or make significant contributions to a manuscript anticipated to be submitted in the future. A submission can be completed prior to P4 year (e.g., associated with PRSI program) and may be peer-reviewed or non-peer reviewed and in a scientific or student-centered publication.

## Benefits of a Research Concentration

Completing the Research Concentration offers many opportunities and benefits, including:

- Earn a certificate documenting experience in research related to biomedical, pharmaceutical, social/behavioral, or clinical science
- Gain a competitive edge useful for post-graduate experiences
- Receive mentoring opportunities and network with established researchers in pharmacy practice or pharmaceutical science.
- Receive priority for stipends to assist with traveling and attending professional meetings to present research results as funding is available
- Receive preference for researched-based advanced pharmacy practice experiences

## Qualifying Elective Courses and Descriptions for Research Concentration

*(May include but not limited to the following and subject to change)*

### **PHRM 9021, Translational Research Methods**

This course provides an overview of the translational research process including the role of pharmacists from study design to publication. Students will get hands-on experience with designing a study and the techniques used in research. (P2; 2 lecture hours per week)

### **PHRM 9028 Academic and Clinical Research Elective**

This course is a discussion and project-based, student-driven introduction to clinical/academic research. This application-based research elective will expose students to the core principles of scholarly activities, including IRB application, scholarly writing and research methods. (P2 year; 2 lecture hours per week)

### **PHRM 6290, Independent Study: Pharmaceutical and Administrative Sciences**

Students may arrange to take this elective with participating faculty members in the department of pharmaceutical and administrative sciences. This is a directed course in which the faculty member and the student will select an area of mutual interest and the student will work with the faculty member pursuing scholarship in this area. (P2 year; spring semester)

**PHRM 6291, Independent Study: Pharmacy Practice**

This course is an independent study elective. Students may arrange to take this elective with participating faculty members in the department of pharmacy practice. This is a directed course in which the faculty member and the student will select an area of mutual interest and the student will work with the faculty member pursuing scholarship in this area. (P2 year; spring semester)

**PHRM 7190, Independent Study: Pharmaceutical and Administrative Sciences**

Students may arrange to take this elective with participating faculty members in the department of pharmaceutical and administrative sciences. This is a directed course in which the faculty member and the student will select an area of mutual interest and the student will work with the faculty member pursuing scholarship in this area. (P3 year; fall semester)

**PHRM 7191, Independent Study: Pharmacy Practice**

This course is an independent study elective. Students may arrange to take this elective with participating faculty members in the department of pharmacy practice. This is a directed course in which the faculty member and the student will select an area of mutual interest and the student will work with the faculty member pursuing scholarship in this area. (P3 year; fall semester)

**PHRM 7290, Independent Study: Pharmaceutical and Administrative Sciences**

Students may arrange to take this elective with participating faculty members in the department of pharmaceutical and administrative sciences. This is a directed course in which the faculty member and the student will select an area of mutual interest and the student will work with the faculty member pursuing scholarship in this area. (P3 year; spring semester)

## Contact Information

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