

DOCTORATE OF PHARMACY

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Mission

The School of Pharmacy develops exceptional pharmacy practitioners focused on meeting the physical, emotional, and spiritual needs of patients through servant leadership. The school pursues innovative, ethical solutions to health-related issues in diverse populations through collaborative teaching, research, and practice.

Values

- **Character** – Regarding character as the foundation for appropriate decisions, compassionate care, and clear perspectives, the school considers the development of godly character as paramount in the lives of its students.
- **Global Focus** – The school embraces a global perspective to its impact, endeavoring to equip graduates for service locally, regionally, nationally, and internationally, maintaining a particular sensitivity to the underserved.
- **Ethics** – The school advances behavior, practice, and research consistent with the Truth of the Scriptures and example of Christ.
- **Collaboration** – Though structured into distinct administrative and academic units, the school pursues collaborative relationships and activities within the school, among other units of the University, and with other organizations outside of the University, exemplifying to students the value and effectiveness of working together to achieve worthwhile goals.
- **Innovation** – The school promotes and celebrates the discovery of creative solutions and approaches to issues and problems that challenge the delivery of effective patient care. Recognizing continuous innovation as a quality found in effective organizations today, the school actively integrates contemporary topics and practices into the curriculum.
- **Leadership development** – Regarding influence as the essence of leadership and desiring our graduates to be influential in their personal and professional lives, the school pursues opportunities to help its students develop and apply their leadership skills.

Program Outcomes

Upon completion of the Doctor of Pharmacy degree, the graduate will:

1. Provide patient care by applying sound therapeutic principles and evidence-based data that is based on emerging technologies, evolving biomedical, pharmaceutical, clinical sciences, and relevant psychosocio-cultural aspects that may impact therapeutic outcomes.
2. Manage and use resources of the health care system to retrieve, analyze, assess, and interpret clinical data in order to coordinate safe, accurate, and time-sensitive medication distribution to the patient thereby minimizing medication errors while optimizing therapeutic outcome.
3. Promote health improvement, wellness, and disease prevention in communities and at-risk populations by taking into account relevant socioeconomic, legal, ethical, cultural, administrative, and professional issues in developing and implementing population-specific quality improvement programs and risk-reduction strategies.
4. Integrate biblical worldview with the role of a pharmacist in providing patient care, managing information resources, promoting health and preventing diseases in different communities and at-risk populations around the globe.
5. Represent Christ in their attitudes and values by modeling servant leadership in applying their skills and knowledge as pharmacists.

Program Prerequisites

Students must have completed a minor in Bible or have taken coursework adequate to meet the outcomes of BEGS-6250 Bible Survey for Professionals and BEGS-7250 Foundations of Biblical Theology. Students who have not met this requirement, as determined by the office of the registrar, must enroll in BEGS-6250 and/or BEGS-7250. At least one of these courses must be completed before enrolling in the first year of the professional pharmacy program. Both courses must be completed before the beginning of the second professional year.

Academic Advising

Upon admission into the Pharm.D. program, each student is assigned a faculty advisor in the School of Pharmacy. The faculty advisor provides supervision and guidance for the students throughout the length of study.

Professional Pharmacy Curriculum

P1 (First Professional Year) – Fall Semester	17
PHAR 6110 Introduction to Pharmacy Practice	1
PHAR 6111 Research Design and Methodology	3
PHAR 6112 Introduction to Self-Care	2
PHAR 6121 Pharmacy Practice Lab I	1
PHAR 6130 Medicinal Biochemistry	4
PHAR 6131 Pharmaceutical Sciences I	5
PHAR 6171 Introductory Pharmacy Practice Experience I ...	1
P1 (First Professional Year) – Spring Semester	17
PHAR 6122 Pharmacy Practice Lab II	1
PHAR 6132 Pharmaceutical Sciences II	5
PHAR 6133 Genetics and Pharmacogenomics	3
PHAR 6134 Pharmacokinetics and Biopharmaceutics	4
PHAR 6150 Drug Information and Informatics	3
PHAR 6172 Introductory Pharmacy Practice Experience II ..	1
P2 (Second Professional Year) – Fall Semester	18
PHAR 6250 Applied Biomedical Sciences Module	5
PHAR 6251 Cardiology Module	5
PHAR 6252 Renal and Gastrointestinal Module	5
PHAR 6260 Patient Care and Safety	2
PHAR 6273 Introductory Pharmacy Practice Experience III .	1
P2 (Second Professional Year) – Spring Semester	18
PHAR 6253 Pulmonology Module	5
PHAR 6254 Infectious Disease and Immunology Module ...	5
PHAR 6255 Endocrinology and Dermatology Module	5
PHAR 6274 Introductory Pharmacy Practice Experience IV .	1
PHAR 62XX Electives	2
P3 (Third Professional Year) – Fall Semester	18
PHAR 7351 Neurology and Psychiatry Module	5
PHAR 7352 Oncology and Palliative Care Module	5
PHAR 7353 Leadership and Business Module	3
PHAR 7354 Special Populations Module	2
PHAR 7375 Introductory Pharmacy Practice Experience V..	1
PHAR 73XX Electives	2
P3 (Third Professional Year) – Spring Semester	18
PHAR 7342 Law and Legal Affairs	3
PHAR 7346 Bioethics	3
PHAR 7348 Research Seminar	2
PHAR 7355 Capstone	5
PHAR 7376 Introductory Pharmacy Practice Experience VI .	1
PHAR 73XX Electives	4
P4 (Fourth Professional Year)	36
Required Advanced Pharmacy Practice Experiences	16
PHAR 7481 Advanced Institutional Experience I	4
PHAR 7482 Advanced Community Experience	4
PHAR 7483 Advanced Ambulatory Care Experience I ...	4
PHAR 7484 Advanced Acute Care Experience I	4
Advanced Pharmacy Practice Experiences	4
PHAR 7485 Advanced Institutional Experience II	4
PHAR 7486 Advanced Community Experience II	4
Advanced Pharmacy Practice Experiences	4
PHAR 7487 Advanced Ambulatory Care Experience II ..	4
PHAR 7488 Advanced Acute Care Experience II	4
Advanced Pharmacy Practice Experiences	12
PHAR 7XXX Elective Experiences (choose 3)	4

Accreditation

Regional Accreditation

The University holds membership in the North Central Association of Colleges and Schools. This recognition signifies that the University is accredited. The Higher Learning Commission of the North Central Association of Colleges and Schools has approved the University to award the doctor of pharmacy degree.

Pharmacy Accreditation

The University is pursuing approval for the advanced professional curriculum in pharmacy from the Accreditation Council for Pharmacy Education. Concerning this approval: "Cedarville University's Doctor of Pharmacy program has been granted Precandidate status by the Accreditation Council for Pharmacy Education, 135 South LaSalle Street, Suite 4100, Chicago, IL 60603, 312/644-3575; Fax 312/664-4652, web site www.acpe-accredit.org."

The Accreditation Council for Pharmacy Education (ACPE) accredits Doctor of Pharmacy programs offered by Colleges and Schools of Pharmacy in the United States and selected non-U.S. sites. For a Doctor of Pharmacy program offered by a new college or School of Pharmacy, ACPE accreditation generally involves three steps: Precandidate accreditation status, Candidate accreditation status, and Full accreditation status. Precandidate accreditation status, denotes a developmental program that is expected to mature in accord with stated plans and within a defined time period. Precandidate accreditation status is awarded to a new program of college or School of Pharmacy that has not yet enrolled students in the professional program and authorizes the school to admit its first class. Candidate accreditation status is awarded to a Doctor of Pharmacy program that is currently recognized by ACPE with Precandidate status and has students enrolled but has not yet had a graduating class. Full accreditation status is awarded to a program that has met all ACPE standards for accreditation and has graduated its first class. Graduates of a class designated as having Candidate accreditation status have the same right and privileges of those graduates from a fully accredited program. ACPE conveys its decisions to the various boards of pharmacy and makes recommendations in accord with its decisions. It should be noted, however, that decisions concerning eligibility for licensure by examination or reciprocity reside with the respective state boards of pharmacy in accordance with their state statutes and administrative rules.

The Doctor of Pharmacy program of Cedarville University was awarded Precandidate accreditation status during the January 18-22 meeting of the ACPE Board of Directors based upon an on-site evaluation conducted November 1-3, 2011. Following the enrollment of the inaugural class of students in fall 2012, an on-site evaluation will be scheduled during academic year 2012-2013 for purposes of gathering additional information to be considered in the Board's consideration of advancement to Candidate accreditation status. Based upon this evaluation, should the Board feel that Candidate status cannot be conferred, the School could respond to the Board's concerns and reapply prior to the graduation of the first class. If Candidate accreditation status is not granted even after reapplication, graduates may not be eligible for licensure as pharmacists. If Candidate accreditation status is granted and the program continues to develop as planned, Full accreditation status of the Doctor of Pharmacy program would be considered by the Board following the graduation of students from the program.

Precandidate Status

Granting of Precandidate accreditation status brings no rights or privileges of accreditation as associated with either candidate status or fully accredited status. Precandidate accreditation status indicates only that planning has taken into account ACPE standards and guidelines and suggests reasonable assurance of moving to the next step, that of Candidate accreditation status. Since Precandidate accreditation status does not create any rights of accreditation under the ACPE standards, it is the opinion of ACPE that graduates of programs or Colleges or Schools of Pharmacy that bear Precandidate accreditation status do not meet the educational requirements for licensure.

Candidate Status

With respect to clarification of the meaning of Candidate accreditation status, graduates of a program so designed would, in the opinion of ACPE, have the same rights and privileges of the those graduates from a fully accredited program. The Candidate accreditation status denotes a developmental program that is expected to mature in accord with stated plans within a defined time period. It should be underscored, however, that decisions concerning eligibility for licensure by examination or reciprocity reside with the respective state boards of pharmacy in accordance with their state statutes and administrative rules. Should Candidate accreditation status be awarded to a program, ACPE would, however, make its position known and make recommendations consistent with that position.

Admission Standards

Preferred Admission For Freshman and Transfer Students

Cedarville University uses a direct entry approach, allowing new freshman and transfer students to compete for preferred admission to the School of Pharmacy. If you gain preferred admission as a new student, you will not need to compete for admission to the final four years of advanced professional-level education. Your admission will only be contingent upon successfully maintaining the academic and personal requirements of the program, including a professional interview in the fall of the last year of prepharmacy study. This approach enables you to focus on enjoying your undergraduate education, not competing for admission to pharmacy school.

Gaining preferred admission to the School of Pharmacy involves two steps. First, you must obtain admission to the University. Second, you must compete for preferred admission to the School of Pharmacy. That competition begins with an invitation by the Pharmacy Admissions Committee. Those invitations are based upon the following criteria:

For freshman students applying directly from high school:

- Declared interest in pharmacy
- High school curriculum
- Cumulative high school grade point average of at least a 3.25 on a 4 point scale
- Class rank
- ACT composite and subscores of at least 23 (or SAT subscores of at least 530)

For transfer students who have studied full-time at another university:

- Declared interest in pharmacy
- Collegiate course work
- Cumulative grade point average (3.0 required)

The Pharmacy Admissions Committee begins inviting students to apply by the first week of December. The application process involves submitting an essay and scheduling an interview with

the Pharmacy Admissions Committee. Your final selection will be based upon performance in the interview and on the essay.

While most students apply prior to March 1, there is no firm application deadline. Applicants are considered as long as there is room in the class. Students typically receive notification concerning their admission within two weeks of their interview with the Pharmacy Admissions Committee.

If you do not initially qualify for preferred admission you may enroll at the University as a pre-pharmacy student, taking the recommended prepharmacy curriculum. Working with a pharmacy faculty advisor, you may develop a plan to pursue admission to the Cedarville University School of Pharmacy or another pharmacy program. Typically and depending upon space in the class, you will be considered for preferred admission to the Cedarville University School of Pharmacy when your spring semester cumulative Cedarville grade point average exceeds 3.0.

Postbaccalaureate Admission

While most students enter the professional pharmacy program through the preferred admission pathway, several come as postbaccalaureate students, having earned undergraduate degrees at other institutions. The School of Pharmacy welcomes these students, viewing their diverse backgrounds as opportunities to enrich other pharmacy students through their experiences and perspectives.

Because class size is limited, admission is competitive. Primary criteria considered include the cumulative collegiate grade point average, PCAT scores, and an interview with the School of Pharmacy. Additionally, students must complete the postbaccalaureate candidate prepharmacy requirements, earning a grade of "C" or better in each course.

To pursue admission to the professional pharmacy program as a postbaccalaureate student:

- Complete and submit the undergraduate application for admission, denoting yourself as a "postbaccalaureate student" and indicating pharmacy as your intended program of study.
- Take the PCAT and send your official scores (must be no more than 5 years old) to Pharmacy Admissions, Cedarville University, 251 N. Main Street, Cedarville, OH 45314. Since these scores will be reviewed as a part of your application, plan to take the PCAT in July, September, or January prior to applying for admission. Candidates with composite scores at or above the 50th percentile are given priority consideration.
- Submit a recommendation from a practicing pharmacist or employer/supervisor who is not a full- or part-time faculty member of Cedarville University School of Pharmacy or your relative, using the Professional Recommendation Form provided.
- Complete and submit the postbaccalaureate professional program application (cedarville.edu/~media/Files/PDF/Pharmacy/Post-Baccalaureate-Admission-Application.pdf) for admission along with a copy of your résumé and the short essay requested. In addition to providing helpful information about you, this will help us track your application through the University admission process and provide feedback regarding any additional prerequisites you may need to complete.

When we learn of your admission to the University and receive your pharmacy application, we will contact you concerning your eligibility for an interview. The School of Pharmacy operates on a rolling admission basis, typically starting interviews in February and then continuing until the class beginning the professional program in the fall is full.

Tuition Cost

The seven-year pharmacy curriculum involves two segments, prepharmacy (three years) and advanced professional (four years). Consequently, students pay tuition rates based upon their level in the program.

Prepharmacy

Students who enrolled at the University beginning fall semester 2010 and thereafter pay "block tuition," i.e., an amount allowing them to take between 12 and 17 credits. Prepharmacy courses (those with a PPHR designator) may be taken as a part of this block and are covered by the block tuition charge.

Students who enrolled at the University prior to fall semester 2010 pay tuition on a per credit basis. Prepharmacy courses (those with a PPHR designator) have a tuition rate approximately 10 percent higher than regular undergraduate tuition.

Professional Program

The advanced professional graduate-level course work in the program will be offered beginning fall semester 2012.

The Estimated Cost of Attendance equals Basic Costs + Variable Costs. These are estimates and may vary. Prior to each term, a student will receive a billing invoice, generated from the cashiers office, based upon enrollment information at that time. Try our online payment calculator to evaluate different payment plans.

Basic Costs * (billed to student invoice)	\$29,742
Block Tuition (12-18 credits per semester)	
Fall Semester	\$14,371
Spring Semester	\$14,371
Annual Costs	\$28,742
Comprehensive Pharmacy Fee - (no course fees)	
Fall Semester	\$500
Spring Semester	\$500
Annual Costs	1,000

* Basic costs are owed directly to the University.

In addition to basic costs, a student will also have the following variable costs-

Campus Room and Board - on student invoice, if applicable	
Fall Semester	\$2,720
Spring Semester	\$2,720
Annual Costs	\$5,540
Off-campus (estimated)	
Fall Semester	\$2,400
Spring Semester	\$2,400
Annual Costs	\$4,800
Other person expenses (estimated)	
Fall Semester	\$550
Spring Semester	\$550
Annual Costs	\$1,100

Financial Aid and Scholarship

Professional-level pharmacy students typically rely upon three sources of financial aid for their professional education: scholarships, loans, and employment. Students in the professional program are eligible for a School of Pharmacy scholarship, renewable each academic year with cumulative gpa greater than or equal to 3.2. Specific information regarding this scholarship can be obtained by contacting the assistant dean for admissions and advancement.

Graduation Requirements

Students seeking the Pharm.D. degree must fulfill the following:

- Complete all requirements of the Pharm.D. curriculum
- Complete all requirements of the Pharm.D. program as outlined in the School of Pharmacy student handbook, notably including:
 - All professional and spiritual standards of the program
 - The cross-cultural, extended service (domestic or international experience)
 - Student organization participation
 - Professional conference participation
- Maintain a minimum cumulative grade point average of 3.0
- Obtain approval from the faculty advisor for the student portfolio
- Complete all requirements for the Pharm.D. program within 6 years after matriculation into the program.

Faculty

Marc Sweeney, *Dean: School of Pharmacy*. Professor of Pharmacy Practice. *Education*: B.S., Pharm., Ohio Northern University, 1993; Pharm.D., The Ohio State University, 1997; M.Div., Southwest Bible College and Seminary, 2006. At Cedarville since 2008.

Jeffrey Lewis, *Associate Dean: School of Pharmacy*. Associate Professor of Pharmacy Practice. *Education*: B.S., Pharm., Ohio Northern University, 1986; Pharm.D., University of Cincinnati, 1988, MACM, Malone University, 2004. At Cedarville since 2009.

David Ormsbee, *Assistant Dean: School of Pharmacy*. *Education*: B.A., Cedarville College, 1978; M.B.A., Syracuse University, 2003. At Cedarville since 1979.

Department of Pharmacy Practice

Douglas Anderson, *Chair: Department of Pharmacy Practice*. Professor of Pharmacy Practice. *Education*: B.S., Pharmacy, University of Oklahoma, 1988; Pharm.D., University of Oklahoma, 1992. At Cedarville since 2009.

Miriam Ansong, *Director, Drug Information Center*. Associate Professor of Pharmacy Practice. *Education*: Pharm.D., Howard University College of Pharmacy, 1998. At Cedarville since 2012.

John Ballentine, *Vice Chair of Experiential Programs*. Associate Professor of Pharmacy Practice. *Education*: B.S., Pharmacy, University of Houston, 1989; Pharm. D., University of Kentucky, 1991. At Cedarville since 2011.

Aleda Chen, Assistant Professor of Pharmacy Practice. *Education*: Pharm.D., Ohio Northern University, 2006; M.S., Purdue University, 2009; Ph.D., Purdue University, 2011. At Cedarville since 2011.

Marty Eng, Associate Professor of Pharmacy Practice. *Education*: Pharm.D., University of Maryland, Baltimore School of Pharmacy, 2000. At Cedarville since 2012.

Tracy Frame, Assistant Professor of Pharmacy Practice. *Education*: Pharm.D., Samford University, 2008. At Cedarville since 2011.

Thad Franz, *Director of Experiential Programs*. Assistant Professor of Pharmacy Practice. *Education*: B.S., Pharmaceutical Science, The Ohio State University, 2003; Pharm.D., The Ohio State University, 2005. At Cedarville since 2012.

Melody Hartzler, Assistant Professor of Pharmacy Practice. *Education*: Pharm. D., Ohio Northern University, 2009. At Cedarville since 2010.

Kelly Hiteshew, Assistant Professor of Pharmacy Practice. *Education*: Pharm.D., Ohio Northern University, 2010. At Cedarville since 2011.

Jeff Huston, *Director of Student and Professional Development*. Instructor of Pharmacy Practice. *Education*: B.S., Pharmacy, Ohio Northern University, 1990. At Cedarville since 2010.

Phillip Thornton, *Vice Chair of Experiential Programs*, Associate Professor of Pharmacy Practice. *Education*: B.S., Pharmacy, University of Cincinnati College of Pharmacy, 1990; Ph.D., Pharmacology, Wake Forest University, 1999; Postdoctoral Research Fellow, Institute for Brain Aging and Dementia, University of California at Irvine, 1999–2000; Postdoctoral Fellow, Disease Pharmacotherapy Traineeship, ASCP Foundation, 2002. At Cedarville since 2012.

Department of Pharmaceutical Sciences

Rebecca Gryka, *Chair: Department of Pharmaceutical Sciences*. Associate Professor of Pharmaceutical Sciences. *Education*: B.A., University of California San Diego, 1974; Pharm. D., University of Southern California, 1980; Ph.D., University of Southern California, 1984; Postdoctoral Fellow, University of California Riverside, 1985–86. At Cedarville since 2010.

Elisha Injeti, *Director of Research and Development*. Associate Professor of Pharmaceutical Sciences. *Education*: B.S., Pharmaceutical Sciences, Andhra University, 1995; M.S., Pharmaceutical Sciences, Andhra University, 1997; Post Baccalaureate Certificate, Biomedical and Clinical Ethics, Loma Linda University, 2002; Ph.D., Pharmacology, Loma Linda University, 2008. At Cedarville since 2009.

Rocco Rotello, Associate Professor of Pharmaceutical Science. *Education*: B.A., Chadron State College, 1983; M.S., University of Nebraska Medical School, 1985; Ph.D., University of Colorado Medical School, 1991; Post-Doctoral Fellow, Harvard Medical School, 1991–94. At Cedarville since 2011.

Denise Simpson, Assistant Professor of Pharmaceutical Sciences. *Education*: B.S., Chemistry and Food Chemistry, University of the West Indies, 1999; Ph.D., Chemistry, University of the West Indies, 2005; Postdoctoral Fellow, Department of Medicinal Chemistry, University of Iowa/University of Kansas, 2006–2008; Postdoctoral Fellow, Specialized Chemistry Center, University of Kansas, 2008–2010. At Cedarville since 2012.