

# College of Pharmacy

## College of Pharmacy

### Overview

Founded in 1884, Purdue's College of Pharmacy consistently ranks among the 10 best pharmacy programs in the nation. Numerous research opportunities, an innovative teaching pedagogy, and world-renowned, caring faculty create a cutting edge learning environment. Employers are drawn by the quality, depth and experiential opportunities provided to Purdue pharmacy graduates. The College of Pharmacy is making a difference locally and globally.

### Undergraduate Program

The Purdue College of Pharmacy offers an undergraduate program in Pharmacy.

The Bachelor of Science in Pharmaceutical Sciences (BSPS) is a four-year undergraduate program that consists of multidisciplinary basic sciences related to drug discovery, development, and commercialization. A degree in this program does not allow graduates to become licensed pharmacists.

### Professional Program

Doctor of Pharmacy (Pharm D) - Students who meet all prerequisites, may apply to the PharmD program. Graduates of this 4-year professional program prepares students to sit for the national and pharmacy law licensure exams to practice pharmacy.

### Graduate Programs

The Purdue College of Pharmacy boasts one of the oldest and most-respected graduate programs in the U.S. Each of the three departments of the Purdue College of Pharmacy offer graduate programs:

- Industrial and Physical Pharmacy
- Medicinal Chemistry and Molecular Pharmacology
- Pharmacy Practice

Each department offers a PhD degree program. All of these programs require strong undergraduate preparation, including completion of a Bachelor's Degree for admission.

A combined-degree program allows students in the third year of the PharmD program to begin work on a Pharmacy PhD program while completing the PharmD curricula. Through a judicious choice of electives and research rotations, such students can save up to two years on the total time required for the PhD program. Additional information can be found by reading the full program description.

For more information, please contact Dr. Danzhou Yang, the Associate Dean for Graduate Programs.

### Continuing Education Programs

The College's continuing education programs offer several non-degree certificate programs.

## **Admissions (website)**

## **College Advising (website)**

# **Contact Information**

### **Prospective Undergraduate and Professional Program Students**

Contact the Office of Student Services for general information.

Phone: (765) 496-6885

Contact [Storie Pedley](#) in the Office of Student Services to arrange a visit:

Phone: (765) 496-2352

Fax: (765) 496-1875

E-mail: [spedley@purdue.edu](mailto:spedley@purdue.edu)

Office: Room 156 RHPH (Robert Heine Pharmacy Building)

Contact [Marie Martin-Murphy](#) in the Office of Student Services for information on programs for under-represented populations.

Phone: (765) 494-1364

Fax: (765) 496-1875

E-mail: [mmartinm@purdue.edu](mailto:mmartinm@purdue.edu)

Office: Room 156 RHPH (Robert Heine Pharmacy Building)

Contact [Steve Myszak](#) in the Office of Student Services for information about pre-pharmacy coursework completed off-campus.

Phone: (765) 494-1394

Fax: (765) 496-1875

E-mail: [smyszak@purdue.edu](mailto:smyszak@purdue.edu)

Office: Room 156 RHPH (Robert Heine Pharmacy Building)

## **Current Students (website)**

## Future students (website)

## Prospective Graduate Students

The College's graduate programs are administered by three departments in the College - Industrial and Physical Pharmacy, Medicinal Chemistry and Molecular Pharmacology, and Pharmacy Practice (includes Pharmacy Administration). Contact the graduate program in which you are interested. Some faculty in the College participate in the University's interdisciplinary graduate programs, which can be contacted directly.

For general questions, contact [Delayne Graham](#), Administrative Assistant for Graduate Affairs:

Phone: (765) 494-1362

Fax: (765) 494-7880

E-mail: [dkgraham@purdue.edu](mailto:dkgraham@purdue.edu)

Office: Room 112 RPH (Robert Heine Pharmacy Building)

# College of Pharmacy Administration

## Overview

The Purdue College of Pharmacy, consistently ranked among the 10 best pharmacy programs in the nation, offers a uniquely diverse range of undergraduate and graduate study opportunities. A total of 10 different programs and 700 pharmacy practice experiences prepare students for a range of top-paying careers in the fields of pharmacy, pharmaceutical sciences, and the health sciences.

## Undergraduate and Professional Programs

The Purdue College of Pharmacy offers one undergraduate and one professional program:

- The Bachelor of Science in Pharmaceutical Sciences (BSPS) is a four-year undergraduate program that consists of multidisciplinary basic sciences related to drug discovery, development, and commercialization. A degree in this program does not allow graduates to become licensed pharmacists.
- The Doctor of Pharmacy (PharmD) is a four-year professional degree program, which requires completion of a recognized pre-pharmacy program. Successful completion of this degree allows you to sit for the licensing exam to practice pharmacy.

## Faculty (website)

## College of Pharmacy Administration Website (website)

## Contact Information

## **Prospective Undergraduate and Professional Program Students**

Contact Storie Pedley in the Office of Student Services to arrange a visit:

Phone: (765) 496-2352

Fax: (765) 496-1875

E-mail: [spedley@purdue.edu](mailto:spedley@purdue.edu)

Office: Room 156 RHPH (Robert Heine Pharmacy Building)

Prospective undergraduate and professional students who are interested in visiting the College and learning about programs for under-represented populations are urged to contact the Office of Diversity Initiatives to arrange for their visit.

Students completing their pre-pharmacy coursework off campus should contact Steve Myszak

Phone: (765) 494-1394

Fax: (765) 496-1875

E-mail: [smyszak@purdue.edu](mailto:smyszak@purdue.edu)

Office: Room 156 RHPH (Robert Heine Pharmacy Building)

## **Doctoral**

## **Pharmacy, Pharm.D ‡**

### **About the Program**

The Doctor of Pharmacy (Pharm D) is a four-year professional degree. The classroom, lab, and experiential requirements provide students with the educational background to enter any field of pharmacy practice. Upon graduation, students are eligible to take the pharmacy licensing examination. Or they may choose to move on to graduate-level studies in pharmacy or related fields. PharmD graduates may also pursue post-graduate residency programs in general or specialty practice areas. To be considered for entrance into the PharmD program, applicants must have successfully completed Purdue College of Pharmacy's two-year Pre-Doctor of Pharmacy Program or the equivalent coursework at another accredited institution.

Purdue College of Pharmacy is consistently ranked in the top ten pharmacy programs in the U.S. and boasts an extremely distinguished 85-member faculty renowned for both its cutting-edge work in pharmaceutical research and for developing educational curricula used in pharmacy programs around the world. Students benefit from an integrated, hands-on approach, learning valuable lessons not just in classrooms and laboratories, but also in a 10-month series of rotations in hospitals, pharmacies, and other real-world settings for pharmaceutical professionals.

Doing your Pre-Pharmacy work through Purdue's condensed two-year program can save you up to two years of study and student loan debt, as well as get onto the job market two years faster. That's a big part of the reason why Purdue

PharmD graduates have less debt upon completion of their degree than PharmD students from any other Big Ten pharmacy program.

College of Pharmacy

## Degree Requirements

# 131.5 Credits Required

## Departmental/Program Major Courses (121.5 credits)

### Didactic Course Requirements (86.5 credits)

- PHRM 81000 - Basics Of Immunology
- PHRM 82000 - Professional Skills Laboratory I
- PHRM 82100 - Professional Skills Laboratory II
- PHRM 82400 - Principles Of Pathophysiology And Drug Action
- PHRM 82500 - Integrated Pharmacotherapy I
- PHRM 82600 - Introduction To Patient Centered Care
- PHRM 82800 - Dosage Forms I
- PHRM 82900 - Dosage Forms II
- PHRM 83100 - Health Care Systems
- PHRM 83400 - Pharmaceutical Calculations
- PHRM 83500 - Principles Of Pharmacokinetics
- PHRM 83600 - Biochemistry For Pharmaceutical Sciences II
- PHRM 83800 - Interprofessional Education (IPE) Experience I
- PHRM 83900 - Interprofessional Education (IPE) Experience II
- PHRM 84000 - Professional Skills Laboratory III
- PHRM 84100 - Professional Skills Laboratory IV
- PHRM 84400 - Integrated Pharmacotherapy II
- PHRM 84500 - Integrated Pharmacotherapy III
- PHRM 84700 - Principles Of Pharmacogenomics
- PHRM 84800 - Principles Of Drug Information And Literature Evaluation
- PHRM 84900 - Population Health Management
- PHRM 85200 - Public Health Pharmacy
- PHRM 85400 - Interprofessional Education (IPE) Experience III
- PHRM 85500 - Interprofessional Education (IPE) Experience IV
- PHRM 86000 - Professional Skills Laboratory V
- PHRM 86100 - Professional Skills Laboratory VI
- PHRM 86400 - Integrated Pharmacotherapy IV
- PHRM 86500 - Integrated Pharmacotherapy V
- PHRM 86600 - Biotech/Advanced Parenteral Dosage Forms
- PHRM 86700 - Introduction To The Advanced Pharmacy Practice Experience
- PHRM 86800 - Patient Safety And Informatics
- PHRM 86900 - Practice Management And Marketing Of Professional Services
- PHRM 87000 - Health Policy Applications

- PHRM 87100 - Jurisprudence
- PHRM 87400 - Interprofessional Education (IPE) Experience V

## Experiential Course Requirements (34 credits)

- PHRM 82200 - Pharmacy Skills And Patient Counseling  
*(Completed during the Fall or Spring semester of the P1 year)*
- PHRM 84200 - Community Pharmacy IPPE  
*(Four week rotation completed either May, June, July or January of P2 year)*
- PHRM 86200 - Institutional Pharmacy Introductory Pharmacy Practice Experience  
*(Four week rotation completed either May, June, July, November or January of P2 year.)*
- PHRM 88000 - Advanced Pharmacy Practice Experience  
*- Nine, four week rotations completed over the course of eleven months, beginning in May and ending the following April (total credits: 27.00).*  
*- The final IPE requirement will be completed in conjunction with APPE rotations.*

## Electives (10 credits)

- Electives - Credit Hours: 10.00 (5 credits may be taken Pass/No Pass)

## Grade Requirements

- *Didactic and graded Experiential course requirements must earn a minimum grade of "C."*

## Pass/No Pass Policy

- 5 credits of electives may be taken Pass/No Pass.

## Additional Information

- ‡ Completion of pre-pharmacy requirements and admission to the PharmD program required.
- See College of Pharmacy website for admission criteria.
- See your Academic Advisor for assistance in personalizing your plan of study

## Four-Year Plan

### Professional First Year (P1) - Fall

- PHRM 81000 - Basics Of Immunology
- PHRM 82000 - Professional Skills Laboratory I
- PHRM 82200 - Pharmacy Skills And Patient Counseling - May be taken during the Fall or Spring P1 year.
- PHRM 82400 - Principles Of Pathophysiology And Drug Action
- PHRM 82600 - Introduction To Patient Centered Care
- PHRM 82800 - Dosage Forms I
- PHRM 83400 - Pharmaceutical Calculations

- PHRM 83600 - Biochemistry For Pharmaceutical Sciences II
- PHRM 83800 - Interprofessional Education (IPE) Experience I

## 18.5 Credits

### Professional First Year (P1) - Spring

- PHRM 82100 - Professional Skills Laboratory II
- PHRM 82500 - Integrated Pharmacotherapy I
- PHRM 82900 - Dosage Forms II
- PHRM 83100 - Health Care Systems
- PHRM 83500 - Principles Of Pharmacokinetics
- PHRM 83900 - Interprofessional Education (IPE) Experience II

## 15.5 Credits

### Professional Second Year (P2)

#### *Introductory Pharmacy Practice Experience (IPPE)*

Students complete the community pharmacy rotation during a summer session or winter session.

- PHRM 84200 - Community Pharmacy IPPE

## 3 Credits

### Professional Second Year (P2) - Fall

- PHRM 84000 - Professional Skills Laboratory III
- PHRM 84400 - Integrated Pharmacotherapy II
- PHRM 84800 - Principles Of Drug Information And Literature Evaluation
- PHRM 85200 - Public Health Pharmacy
- PHRM 85400 - Interprofessional Education (IPE) Experience III
- Elective - Credit Hours: 1.00

## 15.5 Credits

### Professional Second Year (P2) - Spring

- PHRM 84100 - Professional Skills Laboratory IV
- PHRM 84500 - Integrated Pharmacotherapy III
- PHRM 84700 - Principles Of Pharmacogenomics
- PHRM 84900 - Population Health Management
- PHRM 85500 - Interprofessional Education (IPE) Experience IV
- Elective - Credit Hours: 4.00

## 16.5 Credits

### Professional Third Year (P3)

#### *Introductory Pharmacy Practice Experience (IPPE)*

Students complete the institutional pharmacy rotation during a summer session or winter session. IPLA #5 (PHRM 87400) will be completed in conjunction with IPPE.

- PHRM 86200 - Institutional Pharmacy Introductory Pharmacy Practice Experience
- PHRM 87400 - Interprofessional Education (IPE) Experience V

## 3.5 Credits

### Professional Third Year (P3) - Fall

- PHRM 86000 - Professional Skills Laboratory V
- PHRM 86400 - Integrated Pharmacotherapy IV
- PHRM 86600 - Biotech/Advanced Parenteral Dosage Forms
- PHRM 86800 - Patient Safety And Informatics
- PHRM 87000 - Health Policy Applications
- Elective - Credit Hours: 2.00

## 16 Credits

### Professional Third Year (P3) - Spring

- PHRM 86100 - Professional Skills Laboratory VI
- PHRM 86500 - Integrated Pharmacotherapy V
- PHRM 86700 - Introduction To The Advanced Pharmacy Practice Experience
- PHRM 86900 - Practice Management And Marketing Of Professional Services
- PHRM 87100 - Jurisprudence
- Electives - Credit Hours: 3.00

## 16 Credits

### Professional Fourth Year (P4)

Complete 9 Four week rotations over the course of 11 months.

- Beginning in May and ending the following April
- Students work with the Experiential Office in selecting a total of 9 rotations occurring during summer, fall, and spring semesters.
- Interprofessional Learning Anchor (IPLA) #6 will occur longitudinally during APPE year
- 3.00 credits hours x9
- PHRM 88000 - Advanced Pharmacy Practice Experience - Credit Hours: 27.00
- Interprofessional Education Experience VI - Credit Hours: 0.00



27 Credits

## Critical Course

The ♦ course is considered critical.

In alignment with the Degree Map Guidance for Indiana's Public Colleges and Universities, published by the Commission for Higher Education (pursuant to HEA 1348-2013), a Critical Course is identified as "one that a student must be able to pass to persist and succeed in a particular major. Students who want to be nurses, for example, should know that they are expected to be proficient in courses like biology in order to be successful. These would be identified by the institutions for each degree program".

## Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

Consultation with an advisor may result in an altered plan customized for an individual student.

The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

## Baccalaureate

### Pharmaceutical Sciences, BS

#### About the Program

The B.S. in Pharmaceutical Sciences (BSPS) begins with a foundation of coursework in mathematics and the basic sciences (chemistry, biology, physics). This interdisciplinary program then progresses to advanced coursework in the pharmaceutical sciences, including aspects of drug design and synthesis, mechanisms of drug action, pharmacology and toxicology, dosage formulation, manufacturing, quality assurance, and regulatory compliance. The curriculum also includes elective credits for individual preparation and educational focus.

The BSPS program offers practical experience through internship programs in industry, government agencies, and on-campus research laboratories. Students are encouraged to spend at least one summer in an internship.

The faculty also encourages undergraduate students to engage in mentored laboratory research. Numerous undergraduate research opportunities are available in the Department of Medicinal Chemistry and Molecular Pharmacology and in the Department of Industrial and Physical Pharmacy, during the regular school year and during the summer months as interns. Career path opportunities with a degree in pharmaceutical sciences include entry-level technical positions in the pharmaceutical and biotechnology industry; graduate education in pharmaceutical, medical, and basic sciences; and post-baccalaureate professional education in pharmacy, medicine, law, and business. You should recognize that this is not a professional degree program. Completion of the B.S. in Pharmaceutical Sciences degree requirements does not qualify the student for state board examination to become a registered pharmacist.

[Pharmaceutical Sciences Website](#)

[Pharmaceutical Sciences Major Change \(CODO\) Requirements](#)

## Degree Requirements

# 120 Credits Required

## Departmental/Program Major Courses (45-48 credits)

- MCMP 20400 - Organic Chemistry I ^
- MCMP 20500 - Organic Chemistry II ^
- MCMP 20800 - Biochemistry For Pharmaceutical Sciences ^
- MCMP 42200 - Immunology ^
- MCMP 54400 - Drug Classes And Mechanisms
- PHRM 20100 - Bachelor Of Science In The Pharmaceutical Sciences Orientation II
- PHRM 42400 - Principles Of Pathophysiology And Drug Action
- PHRM 42800 - Dosage Forms I
- PHRM 42900 - Dosage Forms II
- PHRM 46000 - Drug Discovery And Development I
- PHRM 46100 - Drug Discovery And Development II
- PHRM 48500 - Intercultural And Global Health Issues
- PHRM 83600 - Biochemistry For Pharmaceutical Sciences II
- Pharmacy Special Interest Selective - Credit Hours: 6.00
- Pharmacy Leadership Selective - Credit Hours: 3.00
- Pharmacy Experiential Selective - Credit Hours: 0.00-3.00

## Other Departmental/Program Course Requirements (60-61 credits)

- AGECE 21700 - Economics ♦^ (satisfies Human Cultures: Behavioral/Social Science for core)
- BIOL 11000 - Fundamentals Of Biology I ♦^ (satisfies Science #1 for core)
- BIOL 11100 - Fundamentals Of Biology II ♦^
- BIOL 20300 - Human Anatomy And Physiology ♦^
- BIOL 20400 - Human Anatomy And Physiology ♦^
- BIOL 22100 - Introduction To Microbiology ♦^
- CHM 12901 - General Chemistry With A Biological Focus ♦^ (satisfies Science #2 for core)
- CHM 37200 - Physical Chemistry ♦
- MA 16010 - Applied Calculus I ^ (satisfies Quantitative Reasoning for core)
- MA 16020 - Applied Calculus II ^ or
- Pre-Pharm.D. Educational Goal Selective (for students pursuing admission to a Pharm.D. program; must be taken at PWL)
- PHYS 22000 - General Physics ♦^ (satisfies Science for core)
- STAT 30100 - Elementary Statistical Methods ♦^ (satisfies Information Literacy for core)
- Professional Writing Selective - Choose one.
- ENGL 41900 - Multimedia Writing
- ENGL 42000 - Business Writing
- ENGL 42100 - Technical Writing
- ENGL 42201 - Writing For The Health And Human Sciences
- ENGL 43400 - Science And Medical Writing
- Human Cultures: Humanities Selective - Credit Hours: 3.00 (satisfies Human Cultures: Humanities for core)
- Oral Communication Selective^ - Credit Hours: 3.00 (satisfies Oral Communication for core)

- Science, Technology & Society Selective - Credit Hours: 3.00 (satisfies Science, Technology & Society for core)
- Written Communication Selective^ - Credit Hours: 3.00-4.00 (satisfies Written Communication for core)

## Electives (11-15 credits)

*The following courses are optional, but STRONGLY recommended as electives for the following students:*  
**Pharmaceutical Sciences Students & Pre-Doctor of Pharmacy:**

- PHRM 10000 - Pharmacy Orientation I
- Pre-Doctor of Pharmacy Students:*
- PHRM 20000 - Introduction To Pharmacy And Admissions Process

## Supplemental Lists

Pharmacy Supplemental Information - Includes Selective Lists: Special Interest, Leadership, and Pre-Pharm.D. Education Goal

## Course Requirements and Notes

- (^) Meets Pre-Doctor of Pharmacy Requirements

## College of Pharmacy Pass/No Pass Policy

No courses within the Departmental or Other Departmental areas can be taken with the Pass/No Pass grade mode. Only electives can be taken P/NP.

## University Requirements

### University Core Requirements

For a complete listing of University Core Course Selectives, visit the [Provost's Website](#).

- Human Cultures: Behavioral/Social Science (BSS)
- Human Cultures: Humanities (HUM)
- Information Literacy (IL)
- Oral Communication (OC)
- Quantitative Reasoning (QR)
- Science #1 (SCI)
- Science #2 (SCI)
- Science, Technology, and Society (STS)
- Written Communication (WC)

### Civics Literacy Proficiency Requirement

The Civics Literacy Proficiency activities are designed to develop civic knowledge of Purdue students in an effort to graduate a more informed citizenry. For more information visit the Civics Literacy Proficiency website.

Students will complete the Proficiency by passing a test of civic knowledge, and completing one of three paths:

- Attending six approved civics-related events and completing an assessment for each; or
- Completing 12 podcasts created by the Purdue Center for C-SPAN Scholarship and Engagement that use C-SPAN material and completing an assessment for each; or
- Earning a passing grade for one of **these approved courses** (or transferring in approved AP or departmental credit in lieu of taking a course).

## Upper Level Requirement

- Resident study at Purdue University for at least two semesters and the enrollment in and completion of at least 32 semester hours of coursework required and approved for the completion of the degree. These courses are expected to be at least junior-level (30000+) courses.
- Students should be able to fulfill *most, if not all*, of these credits within their major requirements; there should be a clear pathway for students to complete any credits not completed within their major.

## Additional Information

- See pharmacy advisor to develop a personalized plan of study

## Sample 4-Year Plan

### Fall 1st Year

- BIOL 11000 - Fundamentals Of Biology I ♦ ^
- CHM 12901 - General Chemistry With A Biological Focus ♦ ^
- MA 16010 - Applied Calculus I ^ ♦ ^
- Written Communication Selective^ - Credit Hours: 3.00-4.00  
*BSPS students are advised to take ENGL 10600, ENGL 10800, SCLA 10100 or HONR 19903 to meet pre-requisite for Professional Writing Selective.*
- Elective - Credit Hours: 1.00 (Students are STRONGLY recommended to take PHRM 10000 - Pharmacy Orientation I)

### 16-17 Credits

### Spring 1st Year

- BIOL 11100 - Fundamentals Of Biology II ♦ ^
- MCMP 20400 - Organic Chemistry I ♦ ^
- Oral Communication Selective^ - Credit Hours: 3.00
- MA 16020 - Applied Calculus II ♦ ^ or
- Pre-Pharm.D. Educational Goal Selective

### 14 Credits

## Fall 2nd Year †

- AGE 21700 - Economics ♦^
- BIOL 20300 - Human Anatomy And Physiology ♦^
- MCMP 20500 - Organic Chemistry II
- BIOL 22100 - Introduction To Microbiology ♦^
- Elective - Credit Hours: 1.00 (Pre-pharmacy students are STRONGLY encouraged to take PHRM 20000 - Introduction To Pharmacy And Admissions Process)

16 Credits

## Spring 2nd Year

- BIOL 20400 - Human Anatomy And Physiology ♦^
- MCMP 20800 - Biochemistry For Pharmaceutical Sciences
- MCMP 42200 - Immunology
- PHYS 22000 - General Physics ♦^
- STAT 30100 - Elementary Statistical Methods ♦^

17 Credits

## Fall 3rd Year

- PHRM 42400 - Principles Of Pathophysiology And Drug Action
- PHRM 42800 - Dosage Forms I
- PHRM 83600 - Biochemistry For Pharmaceutical Sciences II
- Professional Writing Selective - Credit Hours: 3.00
- Human Cultures: Humanities Selective - Credit Hours: 3.00

14 Credits

## Spring 3rd Year

- CHM 37200 - Physical Chemistry ♦
- PHRM 20100 - Bachelor Of Science In The Pharmaceutical Sciences Orientation II
- PHRM 42900 - Dosage Forms II
- Pharmacy Special Interest Selective - Credit Hours: 3.00
- Elective - Credit Hours: 4.00-5.00

14-15 Credits

## Fall 4th Year

- PHRM 46000 - Drug Discovery And Development I
- Pharmacy Leadership Selective - Credit Hours: 3.00

- Pharmacy Special Interest Selective - Credit Hours: 3.00
- Pharmacy Experiential Selective - Credit Hours: 0.00 - 3.00
- Science, Technology & Society Selective - Credit Hours: 3.00
- Elective - Credit Hours: 2.00

## 14 Credits

### Spring 4th Year

- MCMP 54400 - Drug Classes And Mechanisms
- PHRM 46100 - Drug Discovery And Development II
- PHRM 48500 - Intercultural And Global Health Issues
- Elective - Credit Hours: 6.00

## 14 Credits

### Pre-Requisite Information

For pre-requisite information, [click here](#).

### Critical Course

The ♦ course is considered critical.

In alignment with the Degree Map Guidance for Indiana's Public Colleges and Universities, published by the Commission for Higher Education (pursuant to HEA 1348-2013), a Critical Course is identified as "one that a student must be able to pass to persist and succeed in a particular major. Students who want to be nurses, for example, should know that they are expected to be proficient in courses like biology in order to be successful. These would be identified by the institutions for each degree program".

### Disclaimer

The student is ultimately responsible for knowing and completing all degree requirements.

Consultation with an advisor may result in an altered plan customized for an individual student.

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### Program Information

### Pharmacy Supplemental Information

### Pharmacy Special Interest Selectives

*Students can choose 6 credits from any of the following areas. Pre-requisites may apply. Students cannot use courses taken for the Leadership selective here.*

## Industrial and Physical Pharmacy

- CHM 32100 - Analytical Chemistry I
- EPCS 10100 - First Year Participation In EPICS
- EPCS 10200 - First Year Participation In EPICS
- EPCS 11100 - First Year Participation In EPICS I
- EPCS 12100 - First Year Participation In EPICS II
- EPCS 20100 - Sophomore Participation In EPICS
- EPCS 20200 - Sophomore Participation In EPICS
- EPCS 30100 - Junior Participation In EPICS
- EPCS 30200 - Junior Participation In EPICS
- EPCS 40100 - Senior Participation In EPICS
- EPCS 40200 - Senior Participation In EPICS
- EPCS 41100 - Senior Design Participation In EPICS
- EPCS 41200 - Senior Design Participation In EPICS
- EPCS 49000 - EPICS Special Topics Course
- IPPH 56200 - Introduction To Pharmaceutical Manufacturing Processes
- IPPH 58000 - Physical Chemical Principles
- IPPH 58300 - Advanced Biopharmaceutics
- PHRM 49500 - Pharmaceutical Research Special Topics
- STAT 51100 - Statistical Methods
- STAT 51200 - Applied Regression Analysis
- STAT 51400 - Design Of Experiments
- IET 11100 - Introduction To Manufacturing And Supply Chain Systems
- IET 31600 - Statistical Quality Control
- TLI 52200 - Good Regulatory Practice

## Medicinal Chemistry & Molecular Pharmacology

- EPCS 10100 - First Year Participation In EPICS
- EPCS 10200 - First Year Participation In EPICS
- EPCS 11100 - First Year Participation In EPICS I
- EPCS 12100 - First Year Participation In EPICS II
- EPCS 20100 - Sophomore Participation In EPICS
- EPCS 20200 - Sophomore Participation In EPICS
- EPCS 30100 - Junior Participation In EPICS
- EPCS 30200 - Junior Participation In EPICS
- EPCS 40100 - Senior Participation In EPICS
- EPCS 40200 - Senior Participation In EPICS
- EPCS 41100 - Senior Design Participation In EPICS
- EPCS 41200 - Senior Design Participation In EPICS
- EPCS 49000 - EPICS Special Topics Course
- MCMP 57000 - Basic Principles Of Chemical Action On Biological Systems
- PHRM 49500 - Pharmaceutical Research Special Topics
- STAT 51200 - Applied Regression Analysis
- STAT 51400 - Design Of Experiments

## Pharmacy

- EPCS 10100 - First Year Participation In EPICS
- EPCS 10200 - First Year Participation In EPICS
- EPCS 11100 - First Year Participation In EPICS I
- EPCS 12100 - First Year Participation In EPICS II
- EPCS 20100 - Sophomore Participation In EPICS
- EPCS 20200 - Sophomore Participation In EPICS
- EPCS 30100 - Junior Participation In EPICS
- EPCS 30200 - Junior Participation In EPICS
- EPCS 40100 - Senior Participation In EPICS
- EPCS 40200 - Senior Participation In EPICS
- EPCS 41100 - Senior Design Participation In EPICS
- EPCS 41200 - Senior Design Participation In EPICS
- EPCS 49000 - EPICS Special Topics Course
- HSCI 13100 - Introduction To Medical Terminology
- HSCI 30500 - Basics Of Oncology
- HORT 12100 - Medicine In The Garden
- HSOP 55600 - Healthcare Economics And Public Policy
- PHRM 42500 - Pharmacy Leadership And Innovation Forum
- PHRM 49500 - Pharmaceutical Research Special Topics

## Business / Management

- CSR 30900 - Leadership Strategies
- EDPS 31600 - Collaborative Leadership: Cross-Cultural Settings
- EDPS 31700 - Collaborative Leadership: Mentoring
- ENTR 20000 - Introduction To Entrepreneurship And Innovation
- ENTR 31000 - Marketing And Management For New Ventures
- IET 54500 - Global Supply Chain Management
- MGMT 20000 - Introductory Accounting
- MGMT 30400 - Introduction To Financial Management
- MGMT 20100 - Management Accounting I
- MGMT 32300 - Principles Of Marketing
- OBHR 33000 - Introduction To Organizational Behavior
- TLI 11200 - Foundations Of Organizational Leadership
- IET 21400 - Introduction To Supply Chain Management Technology
- IET 23500 - Introduction To Systems Thinking And Process Improvement
- TLI 31400 - Leading Innovation In Organizations
- IET 31600 - Statistical Quality Control
- IET 33400 - Economic Analysis For Technology Systems
- TLI 52000 - Foundations Of Innovation Studies

## Sales

- AGECE 33100 - Principles Of Industrial Selling
- COM 31400 - Advanced Presentational Speaking



- COM 31800 - Principles Of Persuasion
- CSR 20900 - Introduction To Retail Management
- CSR 33100 - Consumer Behavior
- CSR 34400 - Fundamentals Of Negotiations
- IET 34300 - Technical And Service Selling

## Law School

- COM 31200 - Rhetoric In The Western World
- COM 31400 - Advanced Presentational Speaking
- COM 31800 - Principles Of Persuasion
- COM 32500 - Interviewing: Principles And Practice
- HIST 33300 - Science And Society In Western Civilization I
- HIST 33400 - Science And Society In Western Civilization II
- HIST 38200 - American Constitutional History
- HIST 38300 - Recent American Constitutional History
- MGMT 45500 - Legal Background For Business I
- PHIL 11100 - Introduction To Ethics
- PHIL 12000 - Critical Thinking
- PHIL 15000 - Principles Of Logic
- PHIL 26000 - Philosophy And Law
- POL 10100 - American Government And Politics
- POL 22200 - Women, Politics, And Public Policy
- POL 22300 - Introduction To Environmental Policy
- POL 36000 - Women And The Law
- POL 43500 - International Law
- POL 46100 - Constitutional Law I
- POL 46200 - Constitutional Law II
- SOC 10000 - Introductory Sociology
- SOC 32400 - Criminology
- SOC 35000 - Sociology Of Family
- SOC 37400 - Medical Sociology
- SOC 41900 - Sociology Of Law
- THTR 13300 - Survey Of Acting

## Medical School

- HIST 31305 - Medical Devices And Innovation
- HIST 35205 - Death, Disease And Medicine In Twentieth Century American History
- HORT 12100 - Medicine In The Garden
- HSCI 30500 - Basics Of Oncology
- HSCI 42000 - Applied Anatomy For Medicine
- PHYS 22100 - General Physics
- PHYS 23400 - Physics For Life Sciences II
- PSY 12000 - Elementary Psychology
- SOC 10000 - Introductory Sociology
- SOC 57200 - Comparative Healthcare Systems

- SOC 57300 - The Human Side Of Medicine
- SOC 57400 - The Social Organization Of Healthcare
- SOC 57600 - Health And Aging In Social Context

## Pharmacy Leadership Selectives

*Pre-requisites may apply. Students cannot use courses taken for the Pharmacy Special Interest selective here.*

- COM 42300 - Leadership, Communication And Organizations
- CSR 30900 - Leadership Strategies
- EDPS 30000 - Student Leadership Development
- EDPS 31700 - Collaborative Leadership: Mentoring
- ENTR 47000 - Gender, Diversity And Leadership
- HONR 29901 - Interdisciplinary Honors - Honors Mentors
- MGMT 65420 - Leadership
- OLS 29900 - Organizational Leadership And Supervision
- OLS 38400 - Leadership Process
- OLS 38600 - Leadership For Organizational Change And Innovation
- OLS 38800 - Leadership Through Teams
- OLS 45600 - Leadership In A Global Environment
- OLS 48400 - Leadership Strategies For Quality And Productivity
- OLS 48500 - Leadership For Team Development
- OLS 48600 - Management Of Change
- OLS 48700 - Leadership Philosophy
- OLS 58000 - Interpersonal Skills For Leaders
- OLS 58200 - Leadership And Organizational Change
- OLS 58900 - Leadership And Ethics
- TLI 11200 - Foundations Of Organizational Leadership
- TLI 15200 - Business Principles For Organizational Leadership
- TLI 35600 - Global Technology Leadership
- TLI 45800 - Leadership For Competitive Advantage
- PHRM 42500 - Pharmacy Leadership And Innovation Forum
- HSCI 22500 - Healthcare Leadership And Safety
- TLI 31400 - Leading Innovation In Organizations

## Pharmacy Experiential Selectives

- PHRM 29199 - Cooperative Experience I
- PHRM 39699 - Pharmaceutical Science Internship Experience
- PHRM 41900 - Experiential Reflections In The Pharmaceutical Sciences
- PHRM 49500 - Pharmaceutical Research Special Topics

## Pre-PharmD Educational Goal Selective

*Students pursuing admission to the PharmD program will choose one of the following courses instead of MA 16020. This requirement must be taken at Purdue West Lafayette.*

- AGR 20100 - Communicating Across Culture
- ANTH 20500 - Human Cultural Diversity
- COM 20400 - Critical Perspectives On Communication
- COM 21000 - Addressing Public Issues
- COM 21700 - Science Writing And Presentation
- COM 22400 - Communicating In The Global Workplace
- HDFS 28000 - Diversity In Individual And Family Life
- PHIL 11000 - The Big Questions: Introduction To Philosophy
- PHIL 11100 - Introduction To Ethics
- PHIL 11400 - Global Moral Issues
- PHIL 12000 - Critical Thinking
- PHIL 15000 - Principles Of Logic
- PHIL 24000 - Social And Political Philosophy
- PHIL 27000 - Biomedical Ethics
- SOC 10000 - Introductory Sociology
- SOC 22000 - Social Problems
- SOC 37400 - Medical Sociology
- Any UCC-approved Behavioral/Social Science course

## Department of Industrial and Physical Pharmacy

### Overview

The Department of Industrial & Physical Pharmacy (IPPH) is involved in teaching and research in pharmaceuticals, with emphasis on the following three minors: industrial pharmacy, pharmacokinetics/biopharmaceutics, and physical pharmacy.

Welcome to the Purdue University Department of Industrial and Physical Pharmacy! This is the place to find out more about our department's ongoing research, graduate degree programs, recent news and upcoming events.

Our mission is:

- **to educate and train students** to become leading pharmaceutical scientists and pharmacists
- **to advance scientific discovery and development**, with an emphasis on pharmaceutical formulation, manufacturing and drug delivery, and
- **to contribute** to the advancement of the pharmaceutical sciences through outreach and public service.

We're an academic department within the College of Pharmacy, located in the R. E. Heine Pharmacy Building (RHPH) on the main (West Lafayette) campus of Purdue University. For contact information, please see the Administration page.

Eric J. Munson, PH.D.

Dane O. Kildsig Chair and Department Head  
Dept. of Industrial and Physical Pharmacy

### Faculty (website)

### College of Pharmacy Administration Website (website)

## **Department of Industrial and Physical Pharmacy (website)**

### **Contact Information**

#### **Industrial and Physical Pharmacy**

##### **Postal address:**

Department of Industrial and Physical Pharmacy, Purdue University  
Heine Pharmacy Building  
575 Stadium Mall Drive  
West Lafayette, IN 47907-2091

Phone: (765) 494-1450

Fax: (765) 494-6545

Office: Room 124 (Robert E. Heine Pharmacy Building)

##### **Campus Mail Address:**

IPPH, RHPH

### **Graduate Information**

For Graduate Information please see [Industrial and Physical Pharmacy Graduate Program Information](#) .

## **Department of Medicinal Chemistry and Molecular Pharmacology**

### **Overview**

The mission of the Department of Medicinal Chemistry and Molecular Pharmacology (MCMP) is to serve the citizens of Indiana, the United States and the world through discovery, learning and engagement that integrates the basic chemical and biological sciences for the improvement of human health. The Department of MCMP is an academic department in the College of Pharmacy. It is located in the R. E. Heine Pharmacy Building (RHPH) and in the Arthur E. Hansen Building (HANS) on the main (West Lafayette) campus of Purdue University.

### **Faculty (website)**

## **Department of Medicinal Chemistry and Molecular Pharmacology (website)**

### **Contact Information**

##### **Postal address**

Department of Medicinal Chemistry and Molecular Pharmacology  
Purdue University

R. E. Heine Building  
575 Stadium Mall Drive  
West Lafayette, IN 47907-2091

## **Campus Mail Address**

MCMP, RHPH

## **Main Office**

Room 202, Robert E. Heine Pharmacy Building  
Phone: (765) 49-41403  
Fax: (765) 49-41414

## **Graduate Program Inquiry**

Phone: (800) 563-3568  
Email: [mcmp\\_grad\\_prog@pharmacy.purdue.edu](mailto:mcmp_grad_prog@pharmacy.purdue.edu)

## **Graduate Information**

For Graduate Information please see Medicinal Chemistry and Molecular Pharmacology Graduate Program Information.

## **Department of Pharmacy Practice**

### **Overview**

The Department of Pharmacy Practice (PHPR) at Purdue University is an academic department in the College of Pharmacy. It is located in the R. E. Heine Pharmacy Building on the main (West Lafayette) campus of the University and also has facilities in Sidney & Lois Eskenazi Hospital on the Indiana University Medical Center campus in Indianapolis. See the Administration page for information on how to contact the Department of Pharmacy Practice.

The mission of the Department of Pharmacy Practice is to demonstrate excellence through performance in the areas of discovery, learning, and engagement. The Department consists of 20 tenure-track faculty, 22 clinical faculty, and over 600 affiliate faculty preceptors. Many faculty practice in specialized areas such as: drug information, critical care, ambulatory medicine, cardiology, outcomes research, infectious disease, pharmacokinetics/pharmacodynamics, managed care, and pharmacy administration.

The experience and knowledge of the faculty of the Department of Pharmacy Practice enable professional degree students to receive excellent didactic and experiential training necessary to become well-rounded practitioners. The professional curriculum includes general, scientific, and patient centered content that prepares Doctor of Pharmacy graduates to deliver effective and cost-efficient pharmaceutical care.

The Department of Pharmacy Practice supports the College of Pharmacy's vision by:

- Providing education to students that enables them to acquire in-depth expertise in the pharmaceutical, social/economic management, and related sciences in order to function as educators and scientists in higher education, government service, and the pharmaceutical and healthcare industries
- Serving the community by engaging in scholarly activities that lead to improvements in healthcare delivery and enhance health outcomes
- Fostering innovation in research through interdisciplinary collaboration with other schools/colleges within Purdue, other national/international universities, and pharmacy practitioners to enhance to profession body of knowledge resulting in practice advancement
- Contributing to the profession of pharmacy by participation in leadership roles in pharmaceutical organizations and community programs

The Department also has extensive research opportunities for graduate and post-graduate pharmacists leading to M.S. and Ph.D. degrees in either Clinical Pharmaceutical Sciences or Health Services Outcomes and Policy. The Graduate Academic Program is directed toward the education and maturation of pharmacists in principles and techniques of research dealing with problems in the clinical, administrative, and educational aspects of pharmacy. These programs also encourage students to develop sound teaching techniques through appropriate coursework and supervised experience.

Pharmaceutical Sciences Website

## **Graduate Information**

For Graduate Information please see Pharmacy Practice Graduate Program Information.