

The degree needed to practice pharmacy is called the Doctor of Pharmacy, or the "Pharm. D." The college work for this degree is divided into two parts: the pre-pharmacy curriculum and the professional curriculum. The pre-pharmacy curriculum can be taken at the pharmacy school or at another college or university, whereas the professional curriculum must be taken at a school of pharmacy. Pre-professional requirements for pharmacy are available through the Department of Chemistry and Physics.

In general, students may fulfill two or three years at Southeast of the total six-year curriculum, then complete the training at a professional school. Although the first-year requirements at most pharmacy schools are similar, there are significant differences with some schools. Second-year requirements vary even more from school to school. Therefore, the pre-pharmacy student should be sure of his/her preferred school's requirements. The student should also be aware that few, if any, pharmacy schools accept transfer students for the spring semester, so the student should plan coursework accordingly. Most pre-professional curricula place a strong emphasis on biology, chemistry and mathematics. Various other non-science courses are usually required, such as English and social science courses. A student should use the specific requirements of the schools he/she would prefer to attend in planning a course of study. Admission into Pharm. D. programs is competitive. Pharmacy schools take into consideration course grades, PCAT scores, previous pharmacy experience and communication skills.

Although the Pharm. D. programs at most pharmacy schools allow students to by-pass the bachelor's degree, there are some advantages to completing a bachelor's degree program prior to entering the Pharm. D. program. Pre-pharmacy students should consult with their faculty advisors to discuss the advantages and disadvantages of pursuing the bachelor's degree prior to entering a Pharm. D. program.

Becoming Career Ready...

/ Faculty-mentored learning and guidance will help you develop the professional skills needed for success in a competitive job market and/or advanced study in graduate and professional programs.

/ Upon successful completion of the pre-pharmacy curriculum students are prepared for the professional pharmacy program because of the foundation of chemistry, science and math they receive within the context of a broad university education.

/ Pre-pharmacy students will study in the state-of-the-art, first-rate learning environment provided by the recently renovated Magill Hall of Science while gaining hands-on experience and training using a variety of lab equipment, chemical instruments, and tools in laboratory courses and undergraduate research.

Career Opportunities:

- Retail pharmacist
- Hospital pharmacist
- Clinical pharmacist
- Industrial pharmacy
- Pharmaceutical sales
- University teaching and research
- Graduate study in pharmaceutical science (pharmacology, medicinal chemistry, physical pharmacy), chemistry or biology.

Career Information

To learn more about career opportunities in pharmacy visit: <https://www.pharmacist.com>.

According to the United States Bureau of Labor Statistics, there were 312,500 pharmacy related jobs in 2016. This number is expected to increase by 6% by 2026. Source: <https://www.bls.gov/ooh/healthcare/pharmacists.htm>.

/ The path to a successful career starts with you! You can maximize your career development by working closely with Career Services and Southeast faculty – they are here to help you connect your passions, interests and skills to jobs and opportunities in the field. Career Services provides professional career counseling and coaching, resume critiques, practice interviews, job search strategies, career events, networking opportunities and more.

Transfer and Dual Credit Students

If you have dual credit or transfer credit, please visit our transfer course equivalencies guide at semo.edu/transfercredit.

EXAMPLE CURRICULA**University of Missouri-Kansas City School of Pharmacy**

- ___ BI173 Cell and Organismal Biology (4)
- ___ BI283 Genetics (4)
- ___ BI310 Microbiology (4)
- ___ BI404 Cell Biology (3)
- ___ BS113/013 Anatomy and Physiology I (4)
- ___ BS114/014 Anatomy and Physiology II (4)
- ___ CH184 General Chemistry I Lab (1)
- ___ CH185 General Chemistry I (3)
- ___ CH186 General Chemistry II (3)
- ___ CH187 General Chemistry II Lab (1)
- ___ CH341 Foundations of Organic Chemistry (4)
- ___ CH342 Organic Chemistry Laboratory I (1)
- ___ CH343 Advanced Organic Chemistry (3)
- ___ CH344 Organic Chemistry Lab II (2)
- ___ EN100 English Composition (3)
- ___ EN140 Rhetoric and Critical Thinking (3)
- ___ HL113 Medical Terminology (3)
- ___ MA140 Analytical Geometry and Calculus I (5)
- ___ PH120/020 Introductory Physics I (5)
- ___ SC105 Fundamentals of Oral Communication (3) or SC155 Interpersonal Communication (3) or SC215 Intercultural Communication (3) or SC320 Group Communication and Decision Making (3)
- ___ US105 American History I (3) or US107 American History II (3) or PS103 U.S. Political Systems (3)

Not a prerequisite, but can transfer into Pharm. D. curriculum:

- ___ CH531 Foundations of Biochemistry (3)
- ___ CH532 Advanced Biochemistry (2)

Southern Illinois University-Edwardsville School of Pharmacy

- ___ BI163 Evolution and Ecology (4)
- ___ BI173 Cell and Organismal Biology (4)
- ___ BI283 Genetics (4)
- ___ BI310 General Microbiology (4)
- ___ BS113 Anatomy and Physiology I (4)
- ___ BS114 Anatomy and Physiology II (4)
- ___ CH184 General Chemistry I Lab (1)
- ___ CH185 General Chemistry I (3)
- ___ CH186 General Chemistry II (3)
- ___ CH187 General Chemistry II Lab (1)
- ___ CH341 Foundations of Organic Chemistry (4)
- ___ CH342 Organic Chemistry Laboratory I (1)
- ___ CH343 Advanced Organic Chemistry (3)
- ___ CH344 Organic Chemistry Lab II (2)
- ___ EC101 Economics Problems and Policies (3) or EC215 Principles of Microeconomics (3) or EC225 Principles of Macroeconomics (3)
- ___ EN100 English Composition (3)
- ___ EN140 Rhetoric and Critical Thinking (3)
- ___ MA140 Analytical Geometry and Calculus I (5)
- ___ MA223 Elementary probability and Statistics (3)
- ___ PH120/020 Introductory Physics I (5)
- ___ Any Philosophy (PL) Course (3)
- ___ PY101 Introduction to Psychology (3) or SO102 Society, Culture and Social Behavior (3)
- ___ SC105 Fundamentals of Oral Communication (3) or SC155 Interpersonal Communication (3), or SC314 Augmentation and Problem Solving (3)

St. Louis College of Pharmacy*

- ___ BI163 Evolution and Ecology (4)
- ___ BI173 Cell and Organismal Biology (4)
- ___ BI283 Genetics (4)
- ___ BI310 Microbiology (4)
- ___ BS113/013 Anatomy and Physiology I (4)
- ___ BS114/014 Anatomy and Physiology II (4)
- ___ CH185/085/005 General Chemistry (5)
- ___ CH186 Foundations of Inorganic Chemistry (3)
- ___ CH187 Inorganic Chemistry and Qualitative Analysis Laboratory (2)
- ___ CH341 Foundations of Organic Chemistry (4)
- ___ CH342 Organic Chemistry Laboratory I (1)
- ___ CH343 Advanced Organic Chemistry (3)
- ___ CH344 Organic Chemistry Lab II (2)
- ___ CH531 Foundations of Biochemistry (3)

- ___ EC215 Principles of Microeconomics (3)
 - ___ EN100 English Composition (3)
 - ___ EN140 Rhetoric and Critical Thinking (3)
 - ___ MA223 Elementary Probability and Statistics (3)
 - ___ MA139 Applied Calculus (3)
 - ___ PH120/020 Introductory Physics I (5)
 - ___ SC105 Fundamentals of Oral Communication (3)
 - ___ PY101 Introduction to Psychology (3) or SO102 Society, Culture and Social Behavior (3)
 - ___ Social Science Elective (3)
 - ___ Humanities, e.g. Art, History, Music, Literature, Modern Languages, etc. (12)
 - ___ Writing Intensive/Writing Emphasis/Professional Writing Electives (6) (at the 300/400 level)
- *StLCoP also has a B.S./Pharm.D. program. For more information, contact the Department of Chemistry & Physics chairperson.*

University of Mississippi School of Pharmacy

- ___ BI163 Evolution and Ecology (4)
- ___ BI173 Cell and Organismal Biology (4)
- ___ BI283 Genetics (4)
- ___ BI310 Microbiology (4)
- ___ BI404 Cell Biology (3)
- ___ BI413 Molecular Genetics (3)
- ___ BI442 Immunology (4)
- ___ BI543 Pathogenic Microbiology (2)
- ___ BI544 Pathogenic Microbiology Laboratory (1)
- ___ BS113/013 Anatomy and Physiology I (4) and BS114/014 Anatomy and Physiology II (4) or BS332 Human Physiology (3)
- ___ CH184 General Chemistry I Lab (1)
- ___ CH185 General Chemistry I (3)
- ___ CH186 General Chemistry II (3)
- ___ CH187 General Chemistry II Lab (1)
- ___ CH341 Foundations of Organic Chemistry (4)
- ___ CH342 Organic Chemistry Laboratory I (1)
- ___ CH343 Advanced Organic Chemistry (3)
- ___ CH344 Organic Chemistry Lab II (2)
- ___ CH531 Foundations of Biochemistry (3)
- ___ CH532 Advanced Biochemistry (2)
- ___ EC215 Principles of Microeconomics (3)
- ___ EN100 English Composition (3)
- ___ EN140 Rhetoric and Critical Thinking (3)
- ___ MA139 Applied Calculus (3) or MA140 Analytical Geometry and Calculus I (5)
- ___ MA223 Elementary Probability and Statistics (3) or PY271 Introduction to Behavioral Statistics (3)
- ___ PH120/020 Introductory Physics I (5)
- ___ PH121/021 Introductory Physics II (5)
- ___ SC105 Fundamentals of Oral Communication (3)
- ___ UI352 Medical Ethics (3)

Harding University College of Pharmacy

- ___ BI173 Cell and Organismal Biology (4)
- ___ BI283 Genetics (4)
- ___ BI310 General Microbiology (4)
- ___ CH184 General Chemistry I Lab (1)
- ___ CH185 General Chemistry I (3)
- ___ CH186 General Chemistry II (3)
- ___ CH187 General Chemistry II Lab (1)
- ___ CH341 Foundations of Organic Chemistry (4)
- ___ CH342 Organic Chemistry Laboratory I (1)
- ___ CH343 Advanced Organic Chemistry (3)
- ___ CH344 Organic Chemistry Lab II (2)
- ___ CH531 Foundations of Biochemistry (3)
- ___ EC215 Principles of Microeconomics (3) or EC225 Principles of Macroeconomics (3) or AC221 Principles of Accounting I (3)
- ___ EN100 English Composition (3)
- ___ EN140 Rhetoric and Critical Thinking (3)
- ___ MA140 Analytical Geometry and Calculus I (5)
- ___ MA223 Elementary probability and Statistics (3)
- ___ PY101 Introduction to Psychology (3) or SO102 Society, Culture and Social Behavior (3)
- ___ SC105 Fundamentals of Oral Communication (3)
- ___ Electives (5-6)

To learn more

Office of Admissions
(573) 651-2590
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To explore

the College of Science,
Technology, Engineering and
Mathematics online, visit
semo.edu/stem

For advising

Center for Academic Advising
semo.edu/advising