Pre-Pharmacy

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 College of Science, Technology, and Agriculture. In general, students may fulfill two years at Southeast Missouri State University, have three years of pre-pharmacy, with a seven-year program. 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 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.

Pre-pharmacy students will...

- Gain a strong foundation in chemistry, science, and math which will prepare them for the rigors of the professional pharmacy program curriculum.
- Interact closely with experienced faculty in and out of the classroom who are recognized for their writing, training, professional affiliations, and expertise.
- Study in the state-of-the-art, first-rate learning environment provided by the newly renovated Magill Hall of Science.

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 Planning

With a Doctor of Pharmacy degree, graduates are prepared for the practice of pharmacy in a variety of settings. The majority of graduates practice either in an independent pharmacy or chain store pharmacy, or in a hospital. Others go into industry as sales representatives or liaisons with federal and state governments, or in the preparation, analysis, and testing of new drug compounds. Some pharmacists continue their education and obtain PhD or medical degrees, pursuing careers in clinical pharmacy, research, or education. Salaries for licensed Doctor of Pharmacy graduates start at around $100,000.

Career preparation is part of the mission of Southeast. 100% of programs offer our students an internship, study-abroad program, clinical opportunity, student teaching or research internship.

The Office of Career Services in Academic Hall 057 can provide students with professional career counseling and coaching, resume critiques, practice interviews, job search strategies, career events, networking opportunities, and more.

Demonstrated Career Proficiency is a Requirement of all Southeast Students

| CL001 | First Semester | Students connect academic career planning by completing an online career assessment |
| CL002 | Second Semester | Students learn more about resources available to enhance academic and career planning |
| CL003 | Junior Year | Students learn about continued career planning, job search strategies, and networking |
| CL004 | Senior Year | Students learn about resume development, professional communication, interviewing, and transitioning to the first job from college |

To learn more
Office of Admissions
(573) 651-2590
admissions@semo.edu
www.semo.edu

To explore the College of Science, Technology and Agriculture online, visit
www.semo.edu/costa

For advising
Center for Academic Advising - North
(573) 651-5090
www.semo.edu/advising
advisingnorth@semo.edu
## EXAMPLE CURRICULA

### University of Missouri-Kansas City School of Pharmacy

- B163 Evolution and Ecology (4) or ZO200 Animal Biology (3)
- B173 Cell and Organismal Biology (4) or BI200 Plant Biology (4)
- B283 Genetics (4)
- B310 Microbiology (4)
- B404 Cell Biology (3)
- B413 Molecular Genetics (3)
- B543 Pathogenic Microbiology (2)
- B544 Pathogenic Microbiology Laboratory (1)
- 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)
- 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)
- US107 American History I (3) or US107 American History II (3) or PS103 U.S. Political Systems (3)

Recommended but not required

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

### Southern Illinois University-Edwardsville School of Pharmacy

- B163 Evolution and Ecology (4)
- B173 Cell and Organismal Biology (4)
- B514 Anatomy and Physiology I (4)
- B515 Anatomy and Physiology II (4)
- CH185 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)
- 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)
- PH120/020 Introductory Physics I (5)
- PL110 Readings in Philosophy (3) or PL200 Symbolic Logic I (3)
- PY101 Psychological Perspectives on Human Behavior (3) or PY102 Introduction to Psychology (3) or SO102 Society, Culture and Social Behavior (3) or SO200 Introduction to Social Organizations (3)
- SC105 Fundamentals of Oral Communication (3) or SC155 Interpersonal Communication (3), or SC314 Augmentation and problem Solving (3)
- Humanities, e.g. Art, Music, or Literature (3) (no performance courses)

### University of Mississippi School of Pharmacy

- B163 Evolution and Ecology (4) or ZO200 Animal Biology (3)
- B173 Cell and Organismal Biology (4) or BI200 Plant Biology (4)
- B283 Genetics (4)
- B310 Microbiology (4)
- B404 Cell Biology (3)
- B413 Molecular Genetics (3)
- B543 Pathogenic Microbiology (2)
- B544 Pathogenic Microbiology Laboratory (1)
- BS113/013 Anatomy and Physiology I (4) and 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)
- CH532 Advanced Biochemistry (2)
- MA233 Elementary Probability and Statistics (3)
- MA139 Applied Calculus (3)
- PH120/020 Introductory Physics I (5)
- SC105 Fundamentals of Oral Communication (3)
- SO102 Society, Culture and Social Behavior (3)
- SO205 Social Problems in America (3)
- Humanities, e.g. Art, History, Music, Literature, etc. (12)

### St. Louis College of Pharmacy

- B163 Evolution and Ecology (4) or ZO200 Animal Biology (3)
- B173 Cell and Organismal Biology (4)
- B283 Genetics (4)
- B310 Microbiology (4)
- B511/011 Anatomy and Physiology I (4)
- B512/012 Anatomy and Physiology II (4)
- MA140 Analytical Geometry and Calculus I (5)
- MA223 Elementary Probability and Statistics (3)
- MA139 Applied Calculus (3)
- PH120/020 Introductory Physics I (5)
- SC105 Fundamentals of Oral Communication (3)
- SO102 Society, Culture and Social Behavior (3)
- SO205 Social Problems in America (3)
- Humanities, e.g. Art, History, Music, Literature, etc. (12)