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ST. LOUIS COLLEGE OF PHARMACY
4588 Parkview Place
St. Louis, MO 63110-1088
314.367.8700   Fax 314.446.8304
1.800.2.STLCOP
www.stlcop.edu

PLEASE NOTE
St. Louis College of Pharmacy has the right to change the content of this catalog without advance notice.
About the College

Founded in 1864, St. Louis College of Pharmacy is one of the oldest colleges of pharmacy in the nation, and the College consistently graduates one of the top 20 largest classes of pharmacists in the country. St. Louis College of Pharmacy’s 6,941 living alumni represent 50 states and 13 countries. Approximately 75 percent of practicing pharmacists in the St. Louis area are St. Louis College of Pharmacy graduates.

Accreditation

St. Louis College of Pharmacy’s Doctor of Pharmacy program is accredited by the Accreditation Council for Pharmacy Education, 135 South LaSalle Street, Suite 4100, Chicago, IL 60603, 312.664.3575; FAX: 312.664.4652; www.acpe-accredit.org.

St. Louis College of Pharmacy is also accredited by the North Central Association of Colleges and Schools.

The Higher Learning Commission
North Central Association of Colleges and Schools
230 S. LaSalle St., Suite 7-500
Chicago, IL 60604
312.263.0456
800.621.7440
FAX: 312.263.7462

St. Louis College of Pharmacy admits students of any race, color, and national or ethnic origin, and does not discriminate against the disabled nor on the basis of gender or age in admissions policies, educational programs, activities, or employment policies, as required by Section 504 of the 1973 Rehabilitation Act and by Title IX of the 1972 Education Amendments. Inquiries regarding compliance with Title IX or Section 504 may be directed to the director of human resources, St. Louis College of Pharmacy; 4588 Parkview Place; St. Louis, MO 63110; 314.367.8700, or to the director of the Office for Civil Rights, Department of Education, Washington, D.C.
Our Vision
St. Louis College of Pharmacy will be globally prominent in pharmacy and health care education, interprofessional patient-centered care, and collaborative research.

Our Mission
St. Louis College of Pharmacy is a supportive and enriching environment for growth, advancement, and leadership and prepares our students, residents, faculty, staff, and alumni to positively impact patients and society.

Student Ability-Based Outcomes
A primary purpose of St. Louis College of Pharmacy is to prepare students to lead useful and satisfying lives, to contribute and lead in their communities, and to advance the profession of pharmacy. To these ends, the College strives to provide its students a strong foundation in the basic sciences and liberal arts, and a thorough grounding in the principles of evidence-based, interprofessional, patient-centered care. In order to contribute directly to patient care at an entry-level working in collaboration with other health care providers, students are expected to develop and demonstrate the abilities described by the following general and professional outcome statements:

General Ability Outcomes
(for courses approved after the 2010-11 academic year; these outcomes pertain to the 7-Year Doctor of Pharmacy program and its integrated Bachelor of Science degree programs implemented in fall 2014)

• Problem Solving
The graduate identifies problems and potential approaches for solving these; and designs, implements, and evaluates effective and appropriate strategies to arrive at viable solutions.

• Critical Thinking
The graduate systematically explores and analyzes issues, assumptions, evidence, ideas, and events before accepting opinions or formulating conclusions.

• Creative Thinking
The graduate thinks and works in a manner characterized by imagination, innovation, divergent thinking, and risk taking.

• Written Communication
The graduate writes clearly and effectively to diverse audiences for a variety of purposes.

• Oral Communication
The graduate enhances shared understanding by listening to, interpreting, developing, and expressing ideas, verbally and nonverbally, in oral formats, across a range of technologies and for a variety of purposes and audiences.
• **Valuing & Ethical Decision-Making**
The graduate makes decisions about personal and professional conduct through a process that relates values to ideas, actions, and consequences and uses clearly defined ethical principles.

• **Foundations & Skills for Lifelong Learning**
The graduate exhibits intellectual curiosity; takes responsibility for developing knowledge, skills, attitudes, values, and habits; and conducts regular self-assessment to develop and enact a plan to improve performance, adapt to change, and promote continuous personal and professional growth.

• **Conceptual Understanding of Scientific & Mathematical Principles**
The graduate develops, manages and applies a scientific and mathematical knowledge base to evaluate information in a variety of contexts to: extrapolate trends and patterns from existing data; explain social, natural, or behavioral phenomena; and predict probable outcomes.

• **Integrative Learning**
The graduate makes connections among ideas, bodies of knowledge, and experiences to synthesize and transfer learning to new, complex situations.

• **Cultural & Social Competence**
The graduate demonstrates self-knowledge and empathetic understanding of others; makes judgments informed by historical, aesthetic, cultural, social, behavioral, economic, political, and global contexts; and works responsibly and effectively with diverse populations.

• **Collaboration**
The graduate contributes to team tasks and responsibilities, facilitates participation of group members, fosters a constructive climate, and manages and resolves conflict to strengthen overall cohesiveness and effectiveness.

• **Civic Engagement**
The graduate works to make a difference in his/her community.

• **Information Literacy**
The graduate determines the extent of information needed; and identifies, locates, retrieves, evaluates, and effectively and responsibly uses and shares that information to accomplish a specific purpose.

• **Reading**
The graduate exhibits a range of well-developed and discipline-specific skills and strategies to interpret written text.

**General Ability Outcomes**
(for courses approved before and during the 2010-11 academic year; these outcomes pertain to the 6-Year Doctor of Pharmacy program implemented in fall 2000)

• Thinking and Decision-Making
  The student can find, understand, analyze, evaluate, and synthesize information and make informed, rational, and responsible decisions.

• Communication Abilities
  The student can read and listen with understanding and can communicate with various audiences for a variety of purposes.

• Mathematical Competence
  The student is proficient in the expression of quantitative relationships and can perform the needed mathematical operations to infer his or her consequences.

• Scientific Competence
  The student can evaluate the scientific validity of inferences drawn from evidence or experiments.

• Historical and Cultural Consciousness
  The student can make judgments informed by historical, social, economic, scientific, and political contexts and is respectful of the cultural differences between those of diverse ethnic, sexual, age, and religious groups.

• Aesthetic Sensitivity
  The student can articulate the transforming roles art and beauty play in one’s personal life and in society.

• Self and Social Awareness
  The student demonstrates an understanding of self and others, which enhances personal and professional relations.

• Valuing and Ethical Decision-Making
  The student can articulate the relationship of values to ideas and actions and can use clearly defined ethical principles as a basis for conduct in personal and professional settings.

• Citizenship and Leadership
  The student understands the individual’s role as a member of the civic and professional communities and exhibits the capacity to contribute to and assume leadership roles within these communities as is appropriate.

• Self-Learning Abilities
  The student exhibits intellectual curiosity, takes responsibility for gaining new knowledge and skills, can self-assess, and adapt to change.
Professional Ability Outcomes
(for courses approved after the 2010-11 academic year; these outcomes pertain to the 7-Year Doctor of Pharmacy program and its integrated Bachelor of Science degree programs implemented in fall 2014)

• Pharmaceutical Care
The graduate provides pharmaceutical care in cooperation with patients, prescribers, and other members of an interprofessional health care team based upon sound therapeutic principles and evidence-based data, taking into account relevant legal, ethical, social, economic, and professional issues; emerging technologies; and evolving pharmaceutical, biomedical, sociobehavioral, and clinical sciences that may impact therapeutic outcomes.

• Systems Management
The graduate manages and uses resources of the health care system, in cooperation with patients, prescribers, other health care providers, and administrative and supportive personnel, to promote health; to provide, assess, and coordinate safe, accurate, and time-sensitive medication distribution; and to improve therapeutic outcomes of medication use.

• Public Health
The graduate promotes health improvement, wellness, and disease prevention in cooperation with patients, communities, at-risk populations, and other members of an interprofessional team of health care providers.

Professional Ability Outcomes
(for courses approved before and during the 2010-11 academic year; these outcomes pertain to the 6-Year Doctor of Pharmacy program implemented in fall 2000)

• Patient-Specific Drug Therapy Assessment
The student can identify and assess therapeutic problems after appropriately gathering and organizing patient-related data.

• Comprehensive Drug Therapy Plans
The student can develop comprehensive drug therapy plans for specific patients based on their individual needs.

• Professional Practice Management
The student can practice pharmaceutical care and effectively and efficiently manage patient drug therapies, drug distribution systems, cognitive practice activities, and professional development.

• Collaboration with Patients, Caregivers, and Health Professionals
The student can identify, describe, evaluate, and employ effective collaborative strategies in the practice of pharmaceutical care.
Academic Programs

7-Year Doctor of Pharmacy with integrated Bachelor of Science Degrees

The 7-year Doctor of Pharmacy (Pharm.D.) curriculum implemented in fall 2014 consists of a 3-year pre-professional program followed by a 4-year professional program. The Bachelor of Science (BS) in Health Sciences consists of 123 semester hours of study, and the Bachelor of Science (BS) in Health Humanities consists of 122 semester hours of study. Across the entire seven years of study, a minimum total of 238 or 239 semester hours must be completed to earn the Pharm.D. degree with its integrated BS degree. To afford students the ability to tailor a program of study most closely matching their interests and goals, students select which BS degree option they wish to pursue along the way to attaining the Pharm.D. degree. The selected BS degree is earned upon satisfactory completion of all BS degree requirements which typically occurs after four academic years of study.

In the 4-year professional program, students complete 130 hours of required coursework that includes 9 semester hours (300 contact hours) of introductory pharmacy practice experiences and 40 semester hours (1,600 contact hours) of advanced pharmacy practice experiences in which students extend their learning from the classroom to various pharmacy practice settings and have opportunities to provide care for diverse patient populations. Twelve semester hours of elective or selective coursework are also included. Students who wish to specialize in a specific area of pharmacy practice may select one of several possible elective track options. Coursework for professional year 1 overlaps with coursework required in the last year of the integrated BS degree programs so that students can earn both a BS degree and the Pharm.D. degree in 7 years.

6-Year Doctor of Pharmacy

The 6-year Doctor of Pharmacy (Pharm.D.) curriculum implemented in fall 2000 consists of 208 semester hours of study, divided into 155 semester hours of required coursework, 21 hours of elective coursework, and 32 hours devoted to advanced practice experiences in year six. The total program requires six years of study. Included in the required coursework in years three, four, and five are introductory practice experiences, which expose students to various practice settings and teach basic pharmaceutical care practice skills.

The 6-year Doctor of Pharmacy curriculum is being phased-out with the last cohort of students graduating from the program in spring 2019.

Advanced Business Degrees

Students at St. Louis College of Pharmacy have the ability to work toward a Graduate Certificate in Business Administration or a Master of Business degree at the University of Missouri-St. Louis (UMSL) while still enrolled at the College. Once students graduate from the College, they will be able to continue classes at UMSL on their own schedule in order to complete the graduate certificate or MBA. Some courses taken at the College will be transferrable into UMSL. Likewise, select courses taken at UMSL can be used to fulfill graduation requirements at the College.

Graduate certificate courses at UMSL include marketing, financial management, communications, and accounting.

The UMSL College of Business Administration carries the top accreditation for schools of business.
The Campus

• The 9-acre campus is located in the heart of St. Louis’ Central West End medical community and is geographically a part of the Washington University Medical Center complex with Barnes-Jewish Hospital, St. Louis Children’s Hospital, Washington University School of Medicine (WUSM) and Barnes-Jewish College Goldfarb School of Nursing. Along with its medical resources, the campus offers students an academically and socially enriching environment, including:

• Two academic buildings that include laboratories, classrooms, the O.J. Cloughly Alumni Library, a 300-seat auditorium, and administrative facilities.

• Barnes & Noble College bookstore adjacent to campus.

• Residence Hall which offers dining facilities and provides student housing accommodations for 274 students staffed by trained resident assistants and a full-time residence life coordinator.

The College is currently undertaking a significant building expansion project that includes construction of a new 6-story academic/research tower (180,000 gross square foot) and a 33,000-square-foot library/learning center which is slated to be finished in summer 2015. As the new academic/research building is nearing its final phase of construction, work will begin on an additional new 6-story, 220,000-square-foot facility that will include a 250-bed residence hall, student center, 500-seat dining facility, recreation center and competition gymnasium.

Student Life

Guidelines and policies related to student behavior and activities, including sanctions for violating these policies, are included in the Student Code, which is distributed to all new students.

Student life at the College is active and diversified, and consists of professional and service-oriented events as well as social activities. Campus activities are sponsored by various student organizations, Greek organizations, and professional pharmacy organizations. Social activities include dances, the Homecoming Olympiad and a Student Body Union-sponsored variety show, St. Louis Cardinals and Blues games, and community service projects.

The St. Louis College of Pharmacy Alumni Association serves current students by providing scholarships and awards. The Alumni Association also sponsors a professional fair that provides opportunities for students to interact with practitioners from various career settings.

Parking

• Parking is available for approximately 500 vehicles in the College parking garage. Parking spaces are available on a rental basis. First-year (freshman) students living in Residence Hall are not eligible to park in the College garage. Parking is also available in the nearby medical center complex.

• It is strongly recommended that freshman residents do not bring a vehicle to campus.

• Freshman residents who bring a vehicle must secure their own off-campus parking.

• Freshman commuters are eligible for campus parking. If parking is unavailable on campus, arrangements will be made for parking nearby (within walking distance) or with shuttle service to campus.
**Housing and Meals**

- Freshman students receive priority consideration for housing. Returning sophomore (or second year) students are considered for the Residence Hall after all freshman students who want to live there have been accommodated.
- Freshman residents must purchase a minimum point package for meals at the Parkview Café that provides two balanced meals per day. Additional points may be purchased, but unused points will not carry over to the next school year.
- Payments for housing are as follows:
  - $150 security deposit with application
  - $100 room deposit with housing contract due by May 1
  - $500 payment due by June 1
- The refund policy for housing is as follows:
  - 100% if cancelled on or before June 1
  - After June 1, $100 is forfeited
  - After July 1, $600 is forfeited.

**Notebook Computers**

St. Louis College of Pharmacy issues a notebook computer to all incoming first-year students. At the end of three years, the notebooks are replaced with new models for students to use during the final three years at the College. While incidental personal use is permitted, students must be aware of appropriate use policies and be sensitive to the fact that these are campus community resources. Attempts to hack or break into any College system, user account, or technology is strictly prohibited.

The student has the right to use it, but the notebook computer remains the property of St. Louis College of Pharmacy. The student is ultimately responsible for the care and safety of the notebook. If it is damaged or stolen, the student must follow established procedures. When it is turned in, it needs to be in acceptable condition.

Students should be familiar with the operation of the notebook, and always contact the appropriate people when problems or questions arise. Students may purchase additional accessories and peripherals for the notebook, but these must be limited to external components only. Internal components may not be upgraded or replaced by students. Students should ask a St. Louis College of Pharmacy help desk technician if they are unsure about any additions to the notebook.

**Each student will:**

- Sign an acceptable use policy and a responsibility agreement upon receipt of the computer.
- Be responsible for all policies and procedures as described in the acceptable use policy, responsibility agreement, and the St. Louis College of Pharmacy notebook guide.
- Use the computer ethically and legally to enhance the educational experience.
- Be responsible for the care of the computer.
- Return the computer immediately if his or her enrollment is terminated for any reason.
- Comply with all applicable copyright and licensing laws and regulations when gathering and/or sharing
information using this computer.
• Adhere to the software license agreements for all applications installed on the computer.
• Not sell, lease, loan, or otherwise grant anyone else use of the computer.
• Not disassemble or open the computer to access the internal components for any reason. Only St. Louis College of Pharmacy or Fujitsu Notebook technicians are authorized to do so.
• Promptly inform St. Louis College of Pharmacy in the case of theft, follow all applicable reporting procedures, and take responsibility for any replacement costs. Students are required to provide the College with a police report.
• Promptly bring the computer to the shop if damaged and pay for any incurred cost.
• Limit upgrades and additions to external peripherals only and not upgrade or replace any internal components.
• Back up data regularly as outlined in the training materials and understand that the College is not responsible for any loss of data.
• Return the complete computer in good working condition at the end of three years of use.

For additional information, please call the St. Louis College of Pharmacy help desk at 314.367.8700, ext. 5555.

Annual Security Report
An annual security report listing campus crime statistics is available upon request from:

Security Base (first floor of College parking garage)
St. Louis College of Pharmacy
4588 Parkview Place
St. Louis, MO 63110-1088
314.446.8381
E-mail: secuser@stlcop.edu

Faculty

Stacey Abby+, Adjunct Assistant Professor of Pharmacy Practice (2012), St. Louis College of Pharmacy, B.S., Pharm.D.

Anastasia Armbruster*, Assistant Professor of Pharmacy Practice (2011) St. Louis College of Pharmacy, Pharm.D.

Diane Ascare+. Adjunct Instructor, Mathematics (2013) Central Connecticut State University, B.S., M.S.

Caleb Barnes +, Head Coach, Tennis/Supervisor, Intramurals and Adjunct Instructor of Fitness, (2011) Erskine University B.S.

Pramila Badhrinarayanan+, Adjunct Instructor of Pharmacy Practice (2013) Bombay College of Pharmacy, B.Pharm, M.Pharm.
Benjamin Barth, Assistant Professor of Organic Chemistry (2011) Spring Arbor University, B.A., Purdue University, Ph.D.

Deborah A. Baumann+, Adjunct Instructor (2013) St. Louis College of Pharmacy, B.S.

John M. Beale*, Professor of Medicinal Chemistry (1996) University of Iowa, B.S., Ph.D.

Evelyn S. Becker*, Professor of Biology (1970) St. Louis College of Pharmacy, B.S., Pharm.D.; City College of New York, B.S.; Washington University, M.A.

Tricia M. Berry*, Interim Senior Associate Dean of Pharmacy, Interim Department Chair, Pharmacy Practice, Professor of Pharmacy Practice (1996) St. Louis College of Pharmacy, B.S., Pharm.D.

Martha Bhattacharyya, Assistant Professor, Biology (2012) Harvard University, B.A., University of California, San Francisco, Ph.D.

Rhonda Bilger*+, Adjunct Instructor (1989) St. Louis College of Pharmacy, B.S.

Sara Binz+, Adjunct Instructor, Chemistry (2013) Loras College B.S., University of Iowa, M.S., Ph.D.

Ruth Birch+, Adjunct Instructor of Biology (2005) University of Illinois, B.S., M.S., Ph.D.

Suzanne C. Bollmeier*, Professor of Pharmacy Practice (2001) St. Louis College of Pharmacy, B.S., Pharm.D.

David Boltz+, Adjunct Instructor (2009) Wayne State University, B.A.; Purdue University, M.S.

Mary Boutros+, Adjunct Instructor, Physics (2014) American University in Cairo, B.S., John Carroll University, M.S., Case Western Reserve University, M.S.

Rebecca Bragg*, Assistant Professor, Pharmacy Practice (2014) Drake University, Pharm.D.

Julie Braun+*, Adjunct Instructor, Pharmacy Practice (2013) St. Louis Community College, A.A., St. Louis College of Pharmacy, Pharm.D.

Amie D. Brooks*, Interim Director for Division of Ambulatory Care Pharmacy, Associate Professor of Pharmacy Practice (2006) St. Louis College of Pharmacy, B.S., Pharm.D.

C. Ryan Browning+, Adjunct Instructor (2005) Southern Illinois University at Edwardsville, B.A., M.S., M.A.

Alexander Bryant+*, Adjunct Assistant Professor (2011) St. Louis College of Pharmacy, Pharm.D.

Penny Bryant+, Adjunct Instructor of Communications (2004) Lindenwood University, B.S., M.S.A.

Ehren Bucholtz, Associate Professor of Organic Chemistry (2006) Northern Illinois University, B.S.,
Katie Buehler*, Assistant Professor of Pharmacy Practice (2011) Drake University, Pharm.D.

John M. Burke*, Interim Associate Dean for Post Graduate Education; Professor, Pharmacy Practice (1992) University of Missouri-Kansas City, B.S.; University of Texas, Pharm.D.

William Call*, Assistant Professor of Pharmacy Practice (2013) St. Louis College of Pharmacy, Pharm.D.

Kristin Campbell*, Assistant Professor of Pharmacy Practice (2009) University of Kansas, Pharm.D.

Bruce Canaday*, Professor, Pharmacy Practice and Dean of Pharmacy (2014), Purdue University, B.S., University of Tennessee, Pharm.D.

Laura Morietta Challen*, Assistant Professor of Pharmacy Practice (2012) University of Texas, Pharm.D., University of Houston, M.B.A.

Hyunah Cho*, Assistant Professor, Pharmaceutics (2014) Sookmyung Women’s University, B.S., University of Wisconsin – Madison, Ph.D.

Bryan Cintel+, Adjunct Instructor, Biology (2014) University of Missouri – St. Louis, B.S., Lindenwood University, M.Ed.

Michel J. Cloutier, Associate Professor of Microbiology (1990) University of Vermont, B.A.; Syracuse University, Ph.D.

Andrew Crannage*, Assistant Professor of Pharmacy Practice (2009) St. Louis College of Pharmacy, Pharm.D.

Kelly Dacus*+, Adjunct Assistant Professor (2012) University of Mississippi, B.S.P.S, Pharm.D.

Joseph Davis+, Adjunct Assistant Professor of Political Science (1993) Saint Louis University, B.A., M.A.

Amy DeWein+*, Adjunct Assistant Professor (2013), St. Louis College of Pharmacy, B.S., Washington University, M.H.S., Shenandoah University, Pharm.D.

Balram Dhawan+, Adjunct Instructor, Chemistry (2013) Delhi University, B.S., M.S., Carnegie-Mellon University, M.S., Ph.D.

Analise Donovan+*, Adjunct Instructor, Pharmaceutics (2014), St. Louis College of Pharmacy, Pharm.D.

Marc Dorfman+, Adjunct Instructor (2009) University of California at Santa Barbara, B.S., University of Oregon, Ph.D.

Dennis Doyle, Assistant Professor of History (2011) Eastern Connecticut State University, B.A., State
University of New York-Stony Brook, M.A., Ph.D.

Amy Drew*, Assistant Professor of Pharmacy Practice (2009) University of Illinois, B.S.; Midwestern University, Pharm.D.

Helber Dussan+, Adjunct Instructor, Physics (2014) Universidad Nacional de Colombia, B.S., Indiana University, M.S, Ph.D.

Stuart Federman+*, Adjunct Instructor, Pharmacy Practice (2013) St. Louis College of Pharmacy, Pharm.D.

Patrick M. Finnegan*, Interim Director for Division of Acute Care Pharmacy, Associate Professor of Pharmacy Practice (2004) Saint Louis University, B.S.; St. Louis College of Pharmacy, B.S., Pharm.D.

Marilyn A. Fontane, Professor of English (1989) Colorado State University, B.A., M.A.; University of Nebraska, Ph.D.

Patrick E. Fontane, Professor of Sociology (1987) University of Connecticut, B.A.; State University of New York-Buffalo, M.A., Ph.D.

Dayton J. Ford, Associate Professor, Biology (1999) State University of New York-Syracuse, B.S., Ph.D.

Alicia B. Forinash*, Associate Professor of Pharmacy Practice (2002) St. Louis College of Pharmacy, B.S., Pharm.D.

Tristan T. Frampton+, Director, Royal Chorale and Adjunct Instructor, Music (2012) Truman State University, B.A., University of Arizona, M.M.

Lisa Marie French+, Adjunct Instructor (2007) University of Missouri, B.A., M.S.

Daniel Fry+, Accompanist (2011), University of Illinois – Urbana/Champaign, B.S, M.S

Ronald Gaddis+, Adjunct Instructor (2011), Western Michigan University, B.S., University of Kansas, Ph.D.

Claude Gaebelein, Associate Professor of Biostatistics (2002) John Carroll University, A.B.; Kent State University, M.A., Ph.D.

Brenda Gardenour-Walter, Assistant Professor of History (2008) University of New Hampshire, B.A.; Boston University, M.A., Ph.D.

Fred P. Gattas III*+, Adjunct Assistant Professor of Nuclear Medicine (2009) University of Tennessee, Pharm.D.

Nicole M. Gattas*, Assistant Professor of Pharmacy Practice (2003) University of Iowa, Pharm.D.

Gemma P. Geslanl, Associate Professor of Biochemistry (2007) Silliman University, B.S.; University of the Philippines, M.S.; University of
South Carolina, M.P.H., Ph.D.

Brenda L. Gleason*, Associate Dean for Academic Affairs, Associate Professor of Pharmacy Practice (1999) St. Louis College of Pharmacy, B.S., Pharm.D.

Jamie Glore*+, Adjunct Instructor of Pharmacy Practice (2011) St. Louis College of Pharmacy, Pharm.D.

Stephanie Gonzalez, Assistant Professor, History (2014) New York University, B.A., City University of New York, M.Phil., Ph.D.

Chaya Gopalan, Associate Professor of Physiology (2008) Bangalore University, India, B.S., M.S.; University of Glasgow, Scotland, Ph.D.

Gloria R. Grice*, Interim Director, Experiential Programs, Associate Professor of Pharmacy Practice (2003) University of Maryland, Pharm.D.

Scott Griggs*, Assistant Professor of Pharmacy Administration (2011), The College of William and Mary, B.A., University of Texas, Pharm.D. Ph.D.

K. Scott Gronowski*+, Adjunct Professor of Pharmacy Law (2008), Drake University, B.S., Saint Louis University, J.D.

Anna Gurevich+*, Adjunct Assistant Professor of Pharmacy Practice (2013) St. Louis College of Pharmacy, Pharm.D.


Jacklyn Harris*, Assistant Professor of Pharmacy Practice (2008) St. Louis College of Pharmacy, Pharm.D.

Aaron Hartmann*, Assistant Professor of Pharmacy Practice (2013) University of Missouri, B.S., University of Missouri – Kansas City, Pharm.D.

Michelle Hastings, Campus Counselor and Adjunct Instructor (2012), Stephens College, B.F.A., University of Missouri, M.Ed., Ph.D.

Lance Hatch+, Adjunct Instructor (2012), Ricks College, A.S., Brigham Young University, B.S., Logan University, M.A.

Erin Hennessey*, Assistant Professor of Pharmacy Practice (2013), St. Louis College of Pharmacy, Pharm.D.

Sheldon G. Holstad*, Adjunct Professor of Pharmacy Practice (1987) University of Iowa, B.S., Pharm.D.

Shana Hong*+, Adjunct Instructor of Pharmacy Practice (2013) St. Louis College of Pharmacy, Pharm.D.
Jing Huang+, Adjunct Instructor of Microbiology (2013) Peking University, M.D., University of Virginia, Ph.D.

Peter D. Hurd, Interim Chair, Department of Pharmaceutical and Administrative Sciences, Professor of Pharmacy Administration (1986) Dartmouth College, A.B.; Duke University, M.A.; University of Minnesota, Ph.D.

Cheri A. Jablonowski+, Adjunct Instructor of Anatomy (1994) Logan College of Chiropractic, B.S., D.C.

Jill Jokerst-Harter+, Director Athletics, Adjunct Instructor of Fitness (2003) Saint Louis University, B.A.

Rebecca Jones, Adjunct Instructor (2004) DePaul University, B.S.; Eastern Illinois University, M.S.

Paul H. Juang*, Associate Professor of Pharmacy Practice (2005) University of Rochester, B.S.; University of Buffalo, Pharm.D.

Clark Kebodeaux*, Assistant Professor, Pharmacy Practice (2011) University of Kansas, Pharm.D.

Jeffrey Keene+, Adjunct Instructor (2010) Missouri State University, B.S.; Saint Louis University, M.S., Ph.D.

Karen Kershaw+, Adjunct Instructor of Mathematics (2013) University of Missouri – St. Louis, B.A., National Lewis University, M.A.

Kimberly J. Kilgore, Interim Dean of Pharmacy, Dean of Arts and Sciences & Student Affairs and Professor of Chemistry (2006) Muskingum College, B.S.; The Pennsylvania State University, Ph.D.

Ross D. Kirchoefer+, Adjunct Professor of Chemistry (2007) University of Missouri, B.S., M.A.

William Kist, Assistant Professor of Physiology (2011) University of Missouri, B.S., M.S., Ph.D.

Angela LaMora+, Adjunct Instructor, Physiology (2012) Lindenwood University, B.S., Saint Louis University, Ph.D.

Theresa Laurent, Associate Professor of Mathematics (2002) Southern Illinois University-Carbondale, B.A., M.S; University of Missouri, Ph.D.

Hedva Levy*+, Adjunct Instructor of Pharmacy Practice (2011) University of Michigan, B.A., Pharm.D.

Travis W. Linneman*+, Assistant Professor of Pharmacy Practice (2005) University of Kansas, Pharm.D.

Marcus Long+, Adjunct Professor of Public Policy (2008) University of Missouri, B.A., M.A.

Nicole Lombardo+*, Adjunct Instructor, Pharmacy Practice (2014) St. Louis College of Pharmacy, Pharm.D.
Janelle Mann*, Assistant Professor of Pharmacy Practice (2011) St. Louis College of Pharmacy, Pharm.D.

M. Jennifer Margarida+, Adjunct Instructor (2010) Saint Louis University, B.A.; Southern Illinois University at Edwardsville, M.A.

Jasna Marjanovic, Assistant Professor of Pharmacology (2008) University of Belgrade, B.S.; University of Illinois, Ph.D.

Kamelia Markova+, Adjunct Instructor (2010) Sofia University, M.S.; University of Missouri-St. Louis, M.S.

Richard P. McCall, Interim Department Chair, Basic Sciences, Professor of Physics (1996) Northeast Louisiana University, B.S.; Ohio State University, Ph.D.

Margaret A. McGraw+, Adjunct Instructor of Spanish (2006) Washington University, B.A.; Saint Louis University, M.A.

Griffin McNamara*+, Adjunct Instructor, Pharmaceutics (2014), St. Louis College of Pharmacy, Pharm.D.

Jonathan McMahan*+, Adjunct Assistant Professor (2012) Butler University, Pharm.D.

Cyentra McNeil*+, Adjunct Assistant Professor of Pharmacy Practice (2013) Hapton University, Pharm.D.

Beth Metcalf*+, Adjunct Instructor of Pharmacy Practice (2012) St. Louis College of Pharmacy, B.S.

Scott Micek*, Associate Professor of Pharmacy Practice (2013) University of Iowa, Pharm.D.

Erika Michalski+, Director, Office of Continuing Professional Development and Adjunct Instructor (2013) University of Missouri, B.S., M.Ed.

Jonathan Moberly+, Adjunct Instructor (2012) Eastern Illinois University, B.A., Saint Louis University, J.D., Lindenwood University, M.B.A.

Ryan Moenster*, Interim Director of the Division of Specialty Care Pharmacy, Associate Professor of Pharmacy Practice (2007) St. Louis College of Pharmacy, B.S., Pharm.D.

Shirley Moreno, Assistant Professor of Information Science (2009) University of Missouri, B.A.; Fontbonne University, M.A.; Drexel University M.S.L.I.S.

Tim Moylan, Associate Professor of English and Director of the Theater Program (2007) Southeast Missouri State University, B.S.; Saint Louis University, M.A., Ph.D.

Susan Mueller, Instructor of English (2009) Webster University, B.A.; Saint Louis University, M.A.; University of Missouri, M.A.

Nandita Nag+, Adjunct Instructor, Physics (2012) Visva Bharati University, M.S., Missouri State
University, M.S., University of Missouri – St. Louis, M.S.

    Jill S. Nissen, Assistant Professor of Information Science and Library Director (1993) University of California, B.A., M.L.I.S.

    Michael Patton+, Adjunct Instructor (2010) Marquette University, B.A., M.A.

    Erica Pearce*, Assistant Professor of Pharmacy Practice (2010) Drake University, Pharm.D.

    Golden Peters*, Assistant Professor of Pharmacy Practice (2010) Fontbonne University, B.A.; Southern Illinois University, Pharm.D.

    John A. Pieper*, President, Professor of Pharmacy Practice (2010) University of Colorado, B.A.; University of Wyoming, B.S.; State University of New York at Buffalo, Pharm.D.

    Jamie Pitlick*, Assistant Professor of Pharmacy Practice (2009) Drake University, Pharm.D.

    Matthew Pitlick*, Assistant Professor of Pharmacy Practice (2009) Drake University, Pharm.D.

    Hannah Pope++, Adjunct Assistant Professor of Pharmacy Practice (2012) Purdue University, Pharm.D.

    Jasmina Profirovic, Assistant Professor of Pharmacology (2011) University of Belgrade, B.S., University of Illinois at Chicago, Ph.D.

    Theresa R. Prosser*, Professor of Pharmacy Practice (1987) University of Illinois, B.S., Pharm.D.

    Patricia Rafferty*, Associate Professor of Pharmacy Practice (2007) University of Missouri, B.S.; Medical University of South Carolina, Pharm.D.

    John Rapko, Instructor, Chemistry (2003) Saint Louis University, B.S., Ph.D.

    Vanitra Richards*, Assistant Professor of Pharmacy Practice (2013) Florida A&M University, Pharm.D.

    Elizabeth Rattine-Flaherty, Assistant Professor of Communications (2008) Ohio University, B.S., M.A., Ph.D.

    Donald R. Rickert*, Professor of Pharmacy Administration (1981) St. Louis College of Pharmacy, B.S.; Southern Illinois University, M.B.A.; Saint Louis University, Ph.D.

    David J. Ritchie*, Professor of Pharmacy Practice (1989) Purdue University, B.S., Pharm.D.


    Patricia Rooney+, Adjunct Instructor (2006) University of Missouri-St. Louis, B.S.; Webster University, M.A.; Saint Louis University, Ph.D.

Noha Salama, Assistant Professor of Pharmaceutics (2009) Cairo University, B.Sc.; University of Maryland, Ph.D.

Mark Sarich+, Adjunct Instructor of Music (2009) University of Illinois, B.A.; Southern Illinois University, M.A.

Kenneth W. Schafermeyer*, Professor of Pharmacy Administration; Director, International Initiatives (1990) St. Louis College of Pharmacy, B.S.; University of Tennessee, M.S.; Purdue University, Ph.D.

Sarah Schlereth+, Adjunct Instructor of Biology (2003) University of Missouri, B.S.

Amber Schmisseur+, Adjunct Instructor of Communications (2012) Southern Illinois University – Edwardsville, B.S., M.A.

Steven Schrum+, Adjunct Instructor of History (2013) Lafayette College, A.B., A.M.

Stephanie Seaton*, Assistant Professor of Pharmacy Practice (2013) St. Louis College of Pharmacy, Pharm.D.

Terry L. Seaton*, Associate Division Director for Research, Professor of Pharmacy Practice (1991) University of Colorado, B.S.; University of Washington, Pharm.D.

Jamie Shelly*, Assistant Professor of Pharmacy Practice (2013) Purdue University, Pharm.D.

Jack W. Simmons+, Adjunct Instructor (2006) Northeast Missouri State University, B.S., M.A.

Kimberly Simmons*, Assistant Professor of Pharmacy Practice and Assistant Vice President for Diversity and Inclusion (2012) Mercer University, M.B.A., Pharm.D.

Suman Sirimulla*, Assistant Professor, Chemistry (2014) J.S.S. College of Pharmacy, B.S., University of Texas at El Paso, M.S., Ph.D.

Carmen Smith*, Assistant Professor of Pharmacy Practice (2013) University of Tennessee, B.S., Pharm.D.

Daron Smith*+, Adjunct Instructor (2010) St. Louis College of Pharmacy, B.S.

Zachary A. Stacy*, Associate Professor of Pharmacy Practice (2004) Blackburn College, B.A.; Southern Illinois University, M.S.; St. Louis College of Pharmacy, B.S., Pharm.D.

Andrei Stefanescu+, Adjunct Instructor Chemistry (2013) Polytechnic University, B.S., Iowa State University, Ph.D.

Paul Stranges*, Assistant Professor of Pharmacy Practice (2013) Midwestern University, Pharm.D.
Michael Thacker+, Adjunct Instructor (2007) University of Missouri-St. Louis, B.S.; Lincoln University, M.Ed.

Stephanie Thomas*+, Adjunct Instructor of Pharmacy Practice (2013) University of Arkansas, Pharm.D.

Jennifer Thompson*, Assistant Professor of Pharmacy Practice (2013) University of Illinois, B.S., University of Illinois – Chicago, Pharm.D.

Amy M. Tiemeier*, Director Community Partnerships, Associate Director of Experiential Programs, Associate Professor of Pharmacy Practice (2003) St. Louis College of Pharmacy, B.S., Pharm.D.

Lucia J. Tranel, Associate Professor of Biology (1978) University of Missouri, B.A., M.S.

Melanie VanDyke, Assistant Professor, Psychology (2003) Saint Louis University, B.S.; University of Nebraska-Lincoln, M.A., Ph.D.

Mychal Voorhees, Health Literacy Coordinator and Adjunct Instructor of Communications (2012), Southern Illinois University – Edwardsville, B.A., Emerson College, M.A.

Scott Vouri*, Assistant Professor of Pharmacy Practice (2011) Butler University, Pharm.D.

Brian D. Walter, Associate Professor of English (2007) Reed College, B.A.; Washington University, M.A., Ph.D.

Margaret A. Weck, Director, Basic and Pharmaceutical Sciences; Associate Professor of Biology (1992) University of Illinois, B.S.; Idaho State University, M.S., D.A.

Philip Wenger*, Assistant Professor of Pharmacy Practice (2007) University of Illinois, Pharm.D.

Stephen Werner+, Adjunct Instructor (2010) University of Missouri-St. Louis, B.S.; Saint Louis University, M.A., Ph.D.

Anthony Wilmes+, Adjunct Instructor, Biology (2014) Truman State University, B.S., Saint Louis University, M.S.

Alexandria Garavaglia Wilson*, Assistant Professor of Pharmacy Practice (2004) University of Illinois, B.S.; St. Louis College of Pharmacy, B.S., Pharm.D.

Kari Wojtkowski+, Adjunct Instructor, Physics (2014) Missouri University of Science and Technology, B.S., University of Missouri – St. Louis, M.S., Ph.D.

Abigail M. Yancey*, Associate Professor of Pharmacy Practice (2005) St. Louis College of Pharmacy, B.S., Pharm.D.

Robert Zebroski, Interim Senior Associate Dean of Arts & Sciences, Associate Professor of History, Interim Director, Liberal Arts and Administrative Sciences (1993) Loyola University, B.S.; State University of New
York-Stony Brook, M.A., Ph.D.

Mary Lou Zlatic+, Adjunct Instructor of Spanish (2006) University of Missouri-St. Louis, B.A.

Thomas D. Zlatic, Professor of English (1987) University of Missouri, B.A.; Saint Louis University, Ph.D.

Mary Zubert+, Accompanist (2011)

Emeritus Members

Rodney J. Cooper, Professor of Physiology Emeritus (1968) Oklahoma State University, B.S.; Iowa State University, M.S., Ph.D.

Jane H. Kitt, Associate Professor of Mathematics Emeritus (1966) Arkansas Polytechnic College, B.A.; University of Arkansas, M.A.

Kenneth W. Kirk*, Dean and Professor of Pharmacy Administration Emeritus (1995) Ferris State University, B.S.; University of Wisconsin, M.S., Ph.D.

Thomas F. Patton*, President Emeritus, Professor of Pharmaceutics (1994) University of Wisconsin, B.S., M.S., Ph.D.

Bruce E. Phillips, Professor of Chemistry Emeritus (1970) Olivet Nazarene College, A.B.; Washington University, Ph.D.

Phyllis M. Sarich*, Assistant Professor of Pharmacy Emeritus (1946) St. Louis College of Pharmacy, B.S.

Helen F. Silverman, Assistant Professor of Library Science Emeritus (1964) Los Angeles State College, B.A.; Columbia University, M.S. in L.S.

John W. Zuzack*, Professor of Medicinal Chemistry Emeritus (1966) St. Louis College of Pharmacy, B.S.; Saint Louis University, B.S., M.S., Ph.D.

() Indicates start date at the College
+ Part time
* Pharmacist

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**Student Consumer Information**  
Consumer information (e.g., graduation rates, student demographic information, financial aid programs, campus crime statistics) is located on the College’s public website: http://www.stlcop.edu/prospectiveandcurrentstudents/costsandaid/financialaidandscholarships/studentconsumerinformation.html.
Admission Requirements

St. Louis College of Pharmacy seeks to attract students who: have the ability to render patient-centered care; can benefit from an educational environment to understand life, self, and culture; can develop an appreciation for the world and the environment; have compassion for the needs of others that prompts an obligation to community service; and understand the need for lifelong, self-directed learning.

• Only 250 freshman students (or fewer) will be admitted, so applying early is highly recommended.
• Freshmen acceptance is highly competitive with two to three qualified applicants for each available space.
• ALL documents required for admission must be submitted by the deadlines (no extensions or exceptions will be made).
• It is the applicant’s responsibility to ensure that all documents and deposits are submitted by the deadlines.

Applications and required documents for admission to the College should be sent to:
Office of Admission
Enrollment Services
St. Louis College of Pharmacy
4588 Parkview Place
St. Louis, MO 63110-1088

National Association for College Admission Counseling
St. Louis College of Pharmacy is a member of the National Association for College Admission Counseling (NACAC) and endorses the principles contained in the NACAC Statement of Principles of Good Practice.

Freshman Students
Freshman applicants must present evidence of the satisfactory completion of a four-year course in, and graduation from, a high school approved by a recognized accrediting agency or its equivalent.

High school courses should include:
• Four years of English
• Four years of math; must have algebra I & II and geometry
• Three years of science; must have biology and chemistry with labs

Other courses recommended are:
• One unit of physics
• Additional units in the subjects listed above, or other science and math courses

Academic performance in high school must meet minimum requirements of:
• Cumulative grade point average of at least 3.0 on a 4.0 scale
• Preferred ACT composite score of 23 and/or SAT combined score of 1110

Advanced Placement Tests/Coursework Taken Outside the College
St. Louis College of Pharmacy grants advanced standing in the form of credit hours to entering students
who, on the basis of performance on the Advanced Placement (AP) tests, demonstrate proficiency in select courses.

A minimum score of three (3) must be earned on the AP test to receive credit for the following courses:

- English Literature – 3 hours of credit
- Psychology – 3 hours of credit

A minimum score of four (4) must be earned on the AP test to receive credit for the following courses:

- Calculus AB or BC – 3 hours of credit
- English Language and Composition – 3 hours of credit
- Biology – 8 hours of credit
- Chemistry – 8 hours of credit
- Physics B – 4 hours of credit (NOTE: The student must take AP test B.)
- Statistics – 3 hours of credit

Courses taken outside the College will be transferred in as credit, if approved by the Registrar’s Office. For students in the 6-year Doctor of Pharmacy program (which will be phased out with the last cohort of students graduating from the program in spring 2019), a maximum of 12 elective credit hours (15 for transfer students) may be transferred into the program. No credit will be transferred for grades less than C. (NOTE: A letter grade of C- is considered to be less than C and will not be transferred.) Credit will not be granted for any math and science courses if taken as dual credit through high school.

Home-Schooled/GED Students

Home-schooled students must submit a transcript of completed secondary-level coursework with a detailed description of each course. Evidence of the successful completion of science lab courses equivalent to courses required in an accredited high school for graduation must also be submitted. Evaluation of courses is on an individual basis, and the decision of the Registrar is final. Home-schooled students and students submitting a GED score in lieu of high school transcripts may be required to take math, science, or English placement exams.

Application Requirements and Deadlines

The following must be submitted by the deadlines before your admission file can be reviewed. Applications that are incomplete at the time of review will be returned to the applicant for completion and may delay an admission decision and notification.

1. Application Fee: The required nonrefundable $55 application fee (payable to St. Louis College of Pharmacy) should be attached to your signed application.

2. Application for Admission: A completed application is recommended for submission as soon as possible after August.
Regular Decision file completion is due by Feb. 1
Early Decision file completion is due by Dec. 15.

3. **Personal Essay:** Your response to the essay topics found in the application guide for admission should accompany the application.

4. **Statement of Commitment:** Please review the Oath of a Pharmacist and Honor Code. A signed statement must be submitted with the application.

5. **Official Transcript:** Submit the form included in the Application Guide or online at [www.stlcop.edu](http://www.stlcop.edu) to your high school records office. Your high school transcript should include your ACT/SAT score, cumulative GPA, and rank in the senior class.

6. **Academic Reference:** Submit the form included in the Application Guide or online at [www.stlcop.edu](http://www.stlcop.edu) to your guidance counselor for completion.

7. **Science Reference:** Submit the form included in the Application Guide or online at [www.stlcop.edu](http://www.stlcop.edu) to your science teacher for completion.

8. **Early Decision Agreement:** Only candidates applying for Early Decision must sign this agreement. Please retain the yellow copy of the agreement for your records.

   *Early Decision file completion is due by December 15.*

**What is Early Decision?**

Applicants are encouraged to apply for the College’s Early Decision plan if they are committed to pursuing a degree in pharmacy and St. Louis College of Pharmacy is their first choice. Early Decision is the term used to describe the application process in which the College makes a binding commitment to a student for admission and the student makes a binding commitment to enroll, if admitted. Early Decision is offered as an advantage to academically accomplished candidates who are committed to pursuing a degree in pharmacy and understand the challenges of a seven-year dual degree program (i.e., students earn a Bachelor of Science degree plus a Doctor of Pharmacy degree in seven years).

The benefits of Early Decision to the student include a guaranteed place in the highly competitive freshmen class, early notification of acceptance to your first-choice college, and the opportunity to attend early orientation sessions.

**In the Early Decision plan:**

- While pursuing Early Decision admission to St. Louis College of Pharmacy, students may not apply to any other Early Decision plan. Filing multiple Early Decision applications will automatically cancel out the student’s application to St. Louis College of Pharmacy. Students who have been admitted under Early Decision admission must immediately withdraw all regular admission applications and make no subsequent applications to other institutions.
- Complete application and all required supporting documents must be postmarked no later than December 15.

*No extensions or exceptions will be made for this deadline.*

- Decisions on acceptance will be sent no later than the middle of January.
A $500 nonrefundable tuition deposit is required within 10 working days of notification of acceptance. The deposit is applied to first-semester tuition. Accepted deposit-paid applicants are guaranteed a space in the class.

If a student who applies for financial aid is not offered a package that makes attendance possible, the student may be released from the Early Decision agreement. A financial aid package may consist of all or some of the following: scholarships, grants, work study, loans and the Expected Family Contribution (EFC), as reflected on an official Student Aid Report determined by the results of the FAFSA.

Refusal to accept or apply for eligible student loans (i.e., Perkins loans, Health Professions loans, Federal subsidized and unsubsidized Direct loans, Federal PLUS loans) is not a condition warranting release from the Early Decision agreement.

Applicants who are not accepted for Early Decision might be eligible for unbiased consideration during the Regular Decision process. If deferred to Regular Decision, the student will be released from the Early Decision agreement. However, the College reserves the right to inform a student if he or she has not been accepted and that consideration under the Regular Decision process will not change a final decision.

What is Regular Decision?

Students applying to St. Louis College of Pharmacy under the Regular Decision plan who meet the minimum admission requirements will be admitted based on availability of space in the freshmen class. The size of the freshmen class will not exceed 250 students and may be capped lower.

In the Regular Decision plan:
• Students applying to St. Louis College of Pharmacy may apply to other colleges without restriction.
• Complete application and all required supporting documents must be postmarked no later than February 1.

No extensions or exceptions will be made for this deadline.
• Decisions on acceptance will be sent no later than the middle of March.

A $300 refundable tuition deposit is requested within 15 business days of notification of acceptance. This deposit may be returned to the student at any time until May 1. A written request asking for a refund, postmarked no later than May 1, is required.

Applicants may submit a written request for an extension until May 1 to submit a deposit (May 1 is the final date to submit a deposit). A written request for an extension must be submitted within 10 days after notification of acceptance. However, students are strongly encouraged to make a decision and submit the refundable deposit soon after an offer of acceptance is received.

What is the wait list?

Applicants will be placed on a wait list for admission when the freshmen class has been filled.

Admission will not be offered or denied at the time the student is placed on the wait list. However, the College will only offer a space on a wait list if there is a strong possibility that an offer of admission will be made before the admission cycle concludes.
Final status for wait list students will be determined as soon after May 1 as possible. A wait list will not extend beyond August 1.

**Supplemental Documents**

The following supplemental documents must be submitted after initial acceptance but prior to new student orientation:

1. **Final Transcript**: A final (eighth semester) transcript must be mailed immediately following your high school graduation.

2. **Health Report**: The health report form must be submitted after acceptance and prior to registration for classes at new student orientation. All health forms are kept confidential.

**Important Deadlines**

**Early Decision Applicants**

All applicants (file completion) **December 15**

**Regular Decision Applicants**

All applicants (file completion) **February 1**

**Tuition Deposit**

**Early Decision Applicants**

A $500 nonrefundable deposit is required within 15 working days of notification of acceptance. Accepted deposit-paid applicants are guaranteed a space in the class.

**Regular Decision Applicants**

A $300 refundable deposit is requested within 15 working days of receipt of an acceptance letter. Applicants may submit a written request, within 10 working days of receipt of an acceptance letter, for an extension (until May 1) as the final date to submit a deposit. This extension will not affect the student’s admission or financial aid status. However, it is important to understand that space is limited in the freshmen class, and enrollment will be capped based on availability of space.

**Financial Aid Application**

**All Applicants**

- File a Free Application for Federal Student Aid (FAFSA)
- Schedule an appointment with the College’s Financial Aid Office.

**Transfer Students into the Undergraduate Program of the 7-Year Doctor of Pharmacy Program with Integrated Bachelor of Science Degrees (Freshman – Junior Year)**

The College reserves the right to require placement exams in math or science; or proof of English proficiency.
The applicant will be notified if any of the above is necessary, along with scheduled dates and times for testing.

**Freshman Transfers:** Students wishing to transfer into the freshman year of the undergraduate program will be considered on a case-by-case basis.

**Sophomore Transfers:** Students wishing to transfer into the sophomore year of the undergraduate program must meet the following requirements:
- Minimum overall GPA of 3.0
- Minimum prerequisite GPA of 3.0
- Academic reference (science preferred)
- Character reference (non-family member)
- Short essay (450-600 words) that describes why you want to become a pharmacist, why you believe that St. Louis College of Pharmacy is a good fit for you, and how you have met and overcome adversity in your past.
- Required Prerequisite Coursework:

<table>
<thead>
<tr>
<th>Course or Equivalent</th>
<th>Semester Hours*</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology I</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Biology II</td>
<td>4</td>
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</tr>
<tr>
<td>General Chemistry I</td>
<td>4</td>
<td></td>
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<tr>
<td>General Chemistry II</td>
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<td></td>
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<td>Composition I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Composition II</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

*When converting from quarter hours, 5 quarter hours is equivalent to 3 semester hours

**Recommended Prerequisite Coursework**
A minimum of 1 (and a recommended 2) of the following courses should be completed prior to enrollment.

<table>
<thead>
<tr>
<th>Course or Equivalent</th>
<th>Semester Hours*</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Introduction to Healthcare</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

*When converting from quarter hours, 5 quarter hours is equivalent to 3 semester hours

**Junior Transfers:** Students wishing to transfer into the junior year of the undergraduate program must meet the following requirements:
- Minimum overall GPA of 3.0
- Minimum prerequisite GPA of 3.0
- Academic reference (science preferred)
- Character reference (non-family member)
- Short essay (450-600 words) that describes why you want to become a pharmacist, why you believe that St. Louis College of Pharmacy is a good fit for you, and how you have met and overcome adversity in your past.

- Required Prerequisite Coursework:

<table>
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<tr>
<th>Course or Equivalent</th>
<th>Semester Hours*</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology I</td>
<td>4</td>
<td>Must be for Science Majors</td>
</tr>
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<td></td>
<td></td>
<td>Must include a lab</td>
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<tr>
<td>Biology II</td>
<td>4</td>
<td>Must be for Science Majors</td>
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<td>Must include a lab</td>
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<tr>
<td>General Chemistry I</td>
<td>4</td>
<td>College Chemistry not accepted</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Must include a lab</td>
</tr>
<tr>
<td>General Chemistry II</td>
<td>4</td>
<td>College Chemistry not accepted</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Must include a lab</td>
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<td>Composition I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Composition II</td>
<td>3</td>
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</tr>
<tr>
<td>Calculus</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Anatomy &amp; Physiology I</td>
<td>4</td>
<td>Must include a lab</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology II</td>
<td>4</td>
<td>Must include a lab</td>
</tr>
<tr>
<td>Organic Chemistry I</td>
<td>4</td>
<td>Must include a lab</td>
</tr>
<tr>
<td>Organic Chemistry II</td>
<td>4</td>
<td>Must include a lab</td>
</tr>
<tr>
<td>World Civilization I</td>
<td>3</td>
<td>Check with admissions regarding acceptable</td>
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<td></td>
<td>equivalents</td>
</tr>
<tr>
<td>World Civilization II</td>
<td>3</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>equivalents</td>
</tr>
</tbody>
</table>

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- Recommended Prerequisite Coursework

A minimum of 2 (and a recommended 4) of the following courses should be completed prior to enrollment.

<table>
<thead>
<tr>
<th>Course or Equivalent</th>
<th>Semester Hours*</th>
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</tr>
</tbody>
</table>
When converting from quarter hours, 5 quarter hours is equivalent to 3 semester hours.

**Transfer Students into the Professional Program (Professional Year 1)**

To be considered for acceptance, transfer applicants must apply to the College using the central pharmacy application system PharmCAS (www.pharmcas.org). Refer to the PharmCAS website or the College website (www.stlcop.edu) for specific entry requirements. Applications sent directly to the College will be returned to the applicant for submission through the PharmCAS website. The deadline for applying to PharmCAS is February 1, or until the professional year 1 class is full, whichever comes first.

The College reserves the right to limit or eliminate transfer into professional year 1 based on the expected student population who will progress from the junior year of the undergraduate program directly into professional year 1. Current students who are in good academic standing and are eligible to return are given preference for enrollment into professional year 1.

The College also reserves the right to require proof of English proficiency. The applicant will be notified if this is necessary, along with scheduled dates and times for testing. The applicant also will be required to attend an on-campus interview as part of the application process.

The College requires completion of the Pharmacy College Admissions Test (PCAT) for transfer students.

**Harcourt Assessment Inc.**
PSE Customer Relations–PCAT
19500 Bulverde Road
San Antonio, TX 78259
1.800.622.3231
www.pcatweb.info

St. Louis College of Pharmacy reserves the right to refuse the transfer of any previously earned college credits. Each applicant’s previously completed college-level coursework is evaluated on an individual basis. Factors that influence the transfer of credits include, but are not limited to, the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Healthcare</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Sociology</td>
<td>3</td>
<td></td>
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<tr>
<td>Physics II</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Literature Elective</td>
<td>3</td>
<td>200 level or higher</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
<td>200 level or higher</td>
</tr>
<tr>
<td>Bio/Phys/Health Sci Elective</td>
<td>3</td>
<td>200 level or higher</td>
</tr>
</tbody>
</table>

*When converting from quarter hours, 5 quarter hours is equivalent to 3 semester hours*
• Science or math coursework completed in the past may be deemed invalid for transfer if too much time has
elapsed between completion of the credit(s) and the student’s application for admission to the College. This will
be determined on an individual basis.
• Coursework in which less than a C was earned will not be accepted (NOTE: a C- is not accepted).
• Credit awarded by other institutions based on Advanced Placement (AP) tests will not transfer. Official test
results must be sent by the College Board to St. Louis College of Pharmacy for transfer consideration.

NOTE: For students transferring into professional year 1 and wanting to transfer credit for physics, they
must have completed two semesters to be equivalent to the College’s required physics prerequisite courses.

International Students

A U.S. Immigration and Customs Enforcement (ICE) I-20 Form will not be issued for entry into the United
States or transfer from another American institution until the applicant has fully satisfied all admission criteria
and has been approved for acceptance.

The College reserves the right to require placement exams in math or science, additional verification of
English proficiency and an interview. The applicant will be notified if any of the above information is deemed
necessary along with scheduled dates and times for testing or an interview.

To be considered for acceptance, international applicants must submit the following documents in addition to
all documents required of U.S. citizens.

1. St. Louis College of Pharmacy application for admission

2. A nonrefundable application fee of $55

3. Evidence of English proficiency by submitting a minimum score of 550 (paper test), 220 (computer test), or
80 (internet test) from the Test of English as a Foreign Language (TOEFL); St. Louis College of Pharmacy
TOEFL code is 6626

4. Test results from the Pharmacy College Admission Test (PCAT)—for transfer applicants into professional
year 1 only

5. Proof of financial support while attending St. Louis College of Pharmacy in the form of either:
   a. A bank statement in the applicant’s name showing deposited funds translated into U.S. currency
   b. A notarized affidavit of support from a sponsor defining the exact amount of funds designated for the
      student’s educational and living expenses while at the College and the period of time for which financial
      support is pledged (the full name, address, and phone number of the sponsor is required)

6. If currently in the United States, a copy of the student’s status with the U.S. Citizenship and Immigration
   Service (USCIS) (i.e., I-20, I-94, and Visa)

7. A high school transcript (translated into English)
Technical Standards

Listed below are recommendations and information regarding the characteristics and abilities which St. Louis College of Pharmacy believes are important for students to possess in order to be successful in the pharmacy curriculum and in subsequent practice as a pharmacist. These technical standards apply to all students entering the College for the first time.

For students who lack certain characteristics and/or abilities which are related to a documented disability, St. Louis College of Pharmacy will work to provide reasonable accommodations. The absence of some skills, however, may limit the variety of settings in which a pharmacist can work.

Any student who has concerns that his/her disability may impact his/her ability to complete the program should contact the Director of Academic Support. (For more information on the College’s compliance with the Americans with Disabilities Act, please refer to the Student Handbook or the Americans with Disabilities Act (ADA) Program information on the College website.)

The standards detailed below are derived from a variety of sources specific to pharmacy education and/or the practice of pharmacy. These sources include:
- Code of Ethics for Pharmacists
- Oath of a Pharmacist
- Pledge of Professionalism
- Accreditation Council for Pharmacy Education (ACPE) Accreditation Standards 2007

Each of the four key categories below (psychomotor abilities, communication, cognitive abilities, and behavioral and social attributes) is defined and specific examples related to the pharmacy curriculum and the practice of pharmacy are noted.

Psychomotor Abilities – Use of the body associated with mental activity

During the course of the curriculum, Pharm.D. candidates will be asked to:
- Observe lectures, demonstrations, experiments
- Use a computer for course-based activities
- Visually evaluate microscopic slides, pharmaceutical preparations, instrumentation data
- Observe a patient accurately at a distance and close at hand (e.g., do a finger stick to obtain a blood sample, perform a foot exam)
- Perform CPR
- Demonstrate safe sterile technique
- Prepare drug products (e.g., compound drug products, prepare IVs, make capsules)
- Use a stethoscope and take a pulse

Communication – Imparting or interchange of thoughts, opinions, or information by speech, writing, or signs

During the course of the curriculum, Pharm.D. candidates will be asked to:
- Communicate effectively in the English language
- Document activities
- Speak, listen, and read in order to elicit information
- Effectively communicate with instructors, peers, and patients
- Communicate with other health care providers
- Teach patients how to use health care related devices (e.g., inhalers, glucometers, etc.)
• Provide patients with clear, concise, accurate, and audience-appropriate information
• Organize ideas and develop thoughts into coherent, appropriately written, and referenced essays and research papers
• Interpret non-verbal communication (body language) from peers, patients, instructors, and members of a health care team
• Utilize appropriate resources for communication with non-English speakers

Cognitive Abilities – Mental processes of perception, memory, judgment, and reasoning
During the course of the curriculum, Pharm.D. candidates will be asked to:
• Accurately fill prescriptions
• Solve problems involving measurement, calculations, reasoning, analysis, synthesis, and evaluation
• Gather and evaluate information from multiple sources to develop patient treatment and monitoring plans in a timely manner
• Demonstrate evidence-based decision making
• Synthesize knowledge and integrate relevant information

Behavioral and Social Attributes – Characteristics of experience, behavior and interaction with people
During the course of the curriculum, Pharm.D. candidates will be asked to:
• Respond in a professional manner when exposed to unpleasant aspects of illness, injury, and/or human physiology
• Accept appropriate suggestions and criticism and respond, if necessary
• Exhibit respect for diversity and justice
  - Act in a manner that respects all individuals
  - Individualize care with considerations for cultural norms of the patient
  - Provide care without judgment
  - Seek justice in the distribution of health care resources
• Demonstrate ethical behavior as described in the Code of Ethics for Pharmacists, Oath of a Pharmacist, and Pledge of Professionalism
  - Maintain professional competence through life-long learning
  - Act with honesty and integrity in professional relationships
  - Respect the dignity, confidentiality, and autonomy of each patient
• Serve individual, community, and societal needs

Academic Requirements and Policies

All students are responsible for following academic procedures and meeting degree requirements in order to graduate.

Academic Calendar* 2014-15

2014 Fall Semester

August 13, Wednesday
Move-in Day

August 14 – 15, Thursday & Friday
Professional Orientation

August 18, Monday
Classes Begin

August 22, Friday
White Coat Ceremony

September 1, Monday
Labor Day – No Classes

October 13 – 14, Monday & Tuesday
Fall Break – No Classes

November 8 – 11
Sesquicentennial Celebration

November 11
Founders Day – No Classes

November 26 – 28, Wednesday – Friday
Thanksgiving Break – No Classes

December 1 – 5
Lab Final Examinations Only

December 5, Friday
Last Day of Classes

December 8 – 12
Final Examinations: Freshman through P2 Students

December 11 – 16
Final Examinations: P3 Students

December 24 – January 1
Winter Break – College Closed

2015 Spring Semester

January 5 – 9
Professional Interviews (2nd yr. and Transfers only)
January 12, Monday
Spring Classes Begin

January 19, Monday
Martin Luther King, Jr. Day – No Classes

March 16 – 20
Spring Break – No Classes

April 8, Wednesday (subject to change)
Outreach and Advocacy Day

April 27 – May 1
Lab Final Examinations Only

May 1, Friday
Last Day of Classes

May 4 – 8
Final Examinations

May 2 or 3, Saturday or Sunday
Commencement (tentative)

2015 Summer

May 26, Tuesday – July 24, Friday
Summer Term

*This calendar is subject to change at the President’s or Dean’s discretion.

Requirements for Graduation—7-Year Doctor of Pharmacy with integrated Bachelor of Science Degree

Candidates for the 7-Year Pharm.D. degree with an integrated Bachelor of Science (BS) degree must complete the appropriate curriculum listed in this catalog.

BS in Health Sciences

The integrated BS in Health Sciences degree is earned upon satisfactory completion of all BS degree requirements which typically occurs after four (4) academic years of study. Students transferring into the sophomore or junior year must complete four (4) full-time semesters at STLCOP and complete all requirements of the BS degree to earn a BS degree from STLCOP. Requirements include:

1. A minimum of 76 semester hours of biological, physical, and health science credits (at least 36 hours must be biological sciences)
2. A minimum of 45 semester hours of 300- or 400-level courses (transfer hour equivalency will be
determined on an individual basis)
3. A cumulative GPA ≥ 2.0
4. A total of ≥ 123 semester hours
5. Completion of all STLCOP general education requirements including
   a. 2 semester hours of Foundations of Learning (or equivalent for transfer students)
   b. 9 semester hours of History (which includes 3 semester hours of selective)
   c. 3 semester hours of Literature
   d. 12 semester hours of Social Sciences (which includes 3 semester hours of elective)
   e. 6 semester hours of Mathematics
   f. 9 semester hours of Communication Arts
6. A minimum of 12 hours of electives total (which includes 3 semester hours of Literature; 3 semester hours of Social Science; 3 semester hours of biological, physical or health science; and 3 semester hours of a “free” elective—an elective taken toward the PharmD degree can also count toward the elective requirement for the BS)
7. A minimum of 6 hours of selectives (which includes 3 semester hours of History and 3 semester hours of Scientific or Professional Writing); at least 1 writing intensive course

BS in Health Humanities
The integrated BS in Health Humanities degree is earned upon satisfactory completion of all BS degree requirements which typically occurs after four (4) academic years of study. Students transferring into the sophomore or junior year must complete four (4) full-time semesters at STLCOP and complete all requirements of the BS degree to earn a BS degree from STLCOP. Requirements include:
1. A minimum of 69 semester hours of biological, physical, and health science credits (at least 36 must be biological sciences)
2. A minimum of 45 semester hours of 300- or 400-level courses (transfer hour equivalency will be determined on an individual basis)
3. A cumulative GPA must be ≥ 2.0
4. A total of ≥ 122 semester hours
5. Completion of all STLCOP general education requirements including
   a. 2 semester hours of Foundations of Learning (or equivalent for transfer students)
   b. 9 semester hours of History (which includes 3 semester hours of selective)
   c. 3 semester hours of Literature
   d. 12 semester hours of Social Sciences (which includes 3 semester hours of elective)
   e. 6 semester hours of Mathematics
   f. 9 semester hours of Communication Arts
6. A minimum of 9 semester hours of electives (which includes 3 semester hours of Literature, 3 semester hours of Social Science, and 3 semester hours of a “free” elective)
7. A minimum of 12 semester hours of selectives (which includes 3 semester hours of History, 6 semester hours of Health Humanities, and 3 semester hours of Scientific or Professional Writing); at least 1 writing intensive course

Doctor of Pharmacy
Students completing the pre-professional program at St. Louis College of Pharmacy must complete all prerequisites for entry into the professional program. Students transferring directly into professional year 1 must
have all prerequisites and at least an equal number of total credit hours as curriculum listed for the STLCOP pre-professional curriculum (i.e., freshmen through junior year).

All students must pass a writing proficiency assessment and interview for entry into professional year 1. For students completing the pre-professional program at STLCOP, the writing proficiency assessment and interview must be completed by the end of the pre-professional program (i.e., the junior year). All students must pass a pharmacy calculations proficiency assessment by the end of professional year 3. A professional GPA $\geq 2.0$ is required before entering advanced pharmacy practice experiences in professional year 4.

The Doctor of Pharmacy (Pharm.D.) degree is earned upon satisfactory completion of all Pharm.D. requirements. The professional program is four academic years. Requirements include:

1. Satisfactory completion of all required coursework in professional year 1 through professional year 4 (130 semester hours) with all coursework being completed at STLCOP.
2. A minimum of 12 semester hours of electives and/or selectives one of which must be a professional writing emphasis elective
3. A cumulative GPA $\geq 2.0$ GPA
4. A grade of C or better in each advanced pharmacy practice experience in professional year 4

St. Louis College of Pharmacy holds a commencement ceremony in early May which will include awarding of BS degrees (for professional year 1 students and/or senior students who have completed all BS degree requirements) and the PharmD degree (for professional year 4 students who have completed all PharmD degree requirements). For the PharmD degree, students who will complete courses and advanced pharmacy practice experiences by the end of the summer are eligible to walk in the May commencement ceremony.

Please note: Students not completing the PharmD program by the May commencement date will be given a graduation date of the 30th of the month when advanced pharmacy practice experiences are complete (e.g., if a student completes advanced pharmacy practice experiences by June 4, the official graduation date will be June 30).

Finally, candidates for a BS degree must be recommended for graduation by the faculty in the School of Arts and Sciences. Candidates for the PharmD degree must be recommended for graduation by the faculty in the School of Pharmacy, must be present at commencement exercises, and must have paid all fees and obligations to the College. If fees or obligations to the College remain unpaid after the student has graduated or leaves the school, the College reserves the right to withhold applications for state board examinations and certified copies of student academic transcripts, as well as the student’s diploma.

**Requirements for Graduation—Bachelor of Science Degrees**

Candidates for the Bachelor of Science degree must complete the appropriate curriculum and required activities listed in this catalog. Students must complete a minimum of four full-time semesters at St. Louis College of Pharmacy. Students must have satisfactorily completed all of the required courses as well as the minimum number of credit hours in each of the specified elective and selective areas. They must have earned a minimum cumulative 2.0 grade point average for all coursework. A grade of C- or better must be earned in all required courses.

**Requirements for Graduation—6-Year Doctor of Pharmacy Degree**

Candidates for the 6-Year Pharm.D. degree must complete the appropriate curriculum listed in this catalog.
Students must pass a pharmacy calculations proficiency assessment by the end of the fifth year. They must be enrolled in the college of pharmacy for a minimum of four years, and complete at least 48 credits covering a period of not less than two academic years at St. Louis College of Pharmacy.

Students must have satisfactorily completed all of the required courses as well as the minimum number of credit hours in each of the specified elective areas. They must have earned a minimum cumulative 2.0 grade point average for all coursework and have completed a sequence of required professional courses with a minimum 2.0 GPA before entering the sixth year. A grade of C or better must be earned in each advanced pharmacy practice experience in year six.

Finally, candidates must have paid all fees and obligations to the College, be recommended for graduation by the faculty, and be present at the commencement exercises. If fees or obligations to the College remain unpaid after the student is graduated or leaves the school, the College reserves the right to withhold applications for state board examinations and certified copies of student academic transcripts, as well as the student’s diploma.

St. Louis College of Pharmacy holds one commencement ceremony in early May. Students who complete courses and rotations by the end of the summer are eligible to walk in the May commencement ceremony. Please note: Students not completing the program by the May commencement date will be given a graduation date of the 30th of the month when rotations are complete (i.e. if a student completes rotations June 4, the official graduation date will be June 30).

**Classes and Attendance**

Each fall and spring semester lasts approximately 15 weeks. Full-time status means 12 or more credit hours must be taken in a semester. A student taking at least six, but less than 12, credit hours is classified as half-time. Anyone taking less than six credit hours is classified as less than half-time.

In the fall semester of the last year of the professional program, students must take eight or more credit hours to be considered full-time. A student taking four to seven credit hours is classified as half-time. Anyone taking less than four credit hours is classified as less than half-time.

Lecture-based class sessions typically are 50 minutes in length; laboratory periods and discussion/recitation periods are typically two or three hours in length. During the advanced pharmacy practice experiences in the final year of the professional program, students will spend a minimum of 40 hours per week in assigned, College-approved hospital pharmacy, community pharmacy, and other clinical practice sites.

The College encourages students to become involved in professional organizations on campus as a way to develop their leadership skills and to gain an appreciation for the role that such organizations play within the pharmacy profession. Students may be excused from classes for a maximum of three days to attend professional meetings, provided the following criteria are met:

- The student must be in good academic standing. Any student on academic probation will not be excused from classes.
- The student must have demonstrated an active involvement in the student organization and must have the approval of the organization’s faculty advisor (when appropriate) to attend.
- The student must make arrangements with each of his or her instructors at least two weeks prior to the meeting to make up any course assignments or exams the student will miss while attending the professional
meeting.

If a student’s religious or moral convictions dictate that they observe holidays or religious events not provided for in the College’s calendar, special arrangements must be made in advance with each instructor.

Students who are or will be absent from classes should notify the appropriate Dean’s Office and their instructors directly, by voice mail or by e-mail.

Adding or Dropping Courses
Students may add a course to their schedule within the first 10 days of the semester (first two days of summer school under normal circumstances) with permission of the instructor.

Students cannot drop required courses that are prerequisites for courses taught in the subsequent semester, regardless of their academic performance in such courses, unless extenuating circumstances exist and the appropriate Dean’s Office has approved.

Students may drop other courses within the first 10 days of the semester (first two days of summer school) provided that the student is in good academic standing (ie, not on academic probation). A student may withdraw from other courses with a grade of "W" with permission of the instructor, the academic adviser, and the Registrar’s Office, at any time prior to the middle of the 11th week of the semester (or the first week of summer school), provided the student is in good academic standing (ie, not placed on academic probation the previous semester). The specific date for withdrawing from courses will be announced at the beginning of each semester.

A permanent record of student progress is maintained by the Registrar’s Office. Students can examine their personal records at any time during the school year.

Issuance of Grades
Final course grades are available to students via Campus Web (the online registration program) immediately following the end of each semester and are not available verbally to students through the Registrar’s Office. Students questioning their grades should discuss the matter with the instructor as soon as possible after grades are issued. Students requesting a grade change must do so prior to the end of the next semester.

Computation of Scholastic Standing
St. Louis College of Pharmacy uses the 4.0 grading system to determine grade point average. The GPA is calculated by multiplying the number of credit hours for a given course by the number of grade points for the letter grade received, totaling the grade points earned, and dividing that total by the number of credit hours attempted.

Grades in advanced pharmacy practice experiences do enter into the final cumulative grade point average. Passing grades are indicated by the letter grades A through C. Any grade below C (NOTE: A letter grade of C- is considered to be less than C) is indicated by the designation No Credit (NC), and the rotation must be repeated.
A grade of Incomplete (I) can be given by a faculty member if the student is unable—due to extenuating circumstances such as illness or injury—to complete all of the required coursework during the semester. An “I” ordinarily is not to be given to allow a student to redo coursework previously completed in an effort to improve the student’s grade in the course. Incomplete grades normally must be made up no later than 10 school days following the beginning of the next semester; otherwise, the “I” is converted to an “F”.

Occasionally, a person not registered with the College or a student enrolled at the College may audit (AU) a course. Academic credit cannot be granted for an audited course. Individuals are permitted to audit a course only when classroom space is available. The course instructor or the appropriate Dean may refuse any request to audit a course. Permission to audit a course entitles the person to attend class, but not to take exams or complete graded assignments. To have documentation that an individual audited the course or to have the audit appear on a transcript, arrangements must be made with the instructor at the beginning of the course so that attendance throughout the semester can be verified. If a student taking at least 12 credit hours of regular courses wants to audit a course, no additional tuition will be charged. Full-time students may only audit a course already taken to enhance their knowledge of the topic. Electives may not be audited. A student wanting to audit one or more courses during the summer must pay a fee of $50 per course. A person outside the College wanting to audit a course should contact the Business Office to determine the tuition charge.

Under no circumstances will a student be allowed to attend a class without officially registering for the course online or in the Registrar’s Office. Academic credit will not be awarded if the student is not registered. It is the student’s responsibility to see that he or she is properly registered for all courses being taken.

**GPA Calculations**

\[
\text{GPA} = \text{CR hours} \times \text{grade points}, \text{totaled and divided by CR hours attempted}
\]

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points</th>
<th>No effect on GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade</td>
<td>Grade Points</td>
<td>No effect on GPA</td>
</tr>
<tr>
<td>--------</td>
<td>--------------</td>
<td>------------------</td>
</tr>
<tr>
<td>A</td>
<td>4.00</td>
<td>W Withdraw</td>
</tr>
<tr>
<td>A-</td>
<td>3.70</td>
<td>P Pass</td>
</tr>
<tr>
<td>B+</td>
<td>3.30</td>
<td>NC No Credit</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
<td>CR Credit</td>
</tr>
<tr>
<td>B-</td>
<td>2.70</td>
<td>I Incomplete</td>
</tr>
<tr>
<td>C+</td>
<td>2.30</td>
<td>AU Audit/No Grade</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
<td>PH Pass with Honors</td>
</tr>
<tr>
<td>C-</td>
<td>1.70</td>
<td></td>
</tr>
<tr>
<td>D+</td>
<td>1.30</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>D-</td>
<td>0.70</td>
<td></td>
</tr>
<tr>
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</tr>
<tr>
<td>TG Transfer Grade</td>
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</tr>
</tbody>
</table>

To illustrate how to calculate a grade point average, assume a student earned the following grades. The student’s semester grade point average (GPA) would be calculated as follows:
<table>
<thead>
<tr>
<th>Grade Earned in Course</th>
<th>Grade Points</th>
<th>Number of Course Credits</th>
<th>Total Grade Points Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>D+</td>
<td>1.30</td>
<td>3</td>
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</tr>
<tr>
<td>C+</td>
<td>2.30</td>
<td>4</td>
<td>9.20</td>
</tr>
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<tr>
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<td>2.70</td>
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</tr>
<tr>
<td>A</td>
<td>4.00</td>
<td>4</td>
<td>16.00</td>
</tr>
</tbody>
</table>

Grade Point Average (GPA)=2.70 (43.20 divided by 16)

**Academic Progress**

In accordance with Title IV regulations, a student attending St. Louis College of Pharmacy is required to remain in good academic standing and maintain satisfactory academic progress. Students are urged to read the following information carefully to be sure they know which policies pertain to them.

St. Louis College of Pharmacy aims to help students develop as professionals and value the professional habits expected of a pharmacist. Professionalism consists of an individual’s competencies, virtues, attitudes, and behaviors appropriate to a profession. A profession is distinguished from other work by the nature of the relationships between professionals and the people for whom they care and serve. As professionals, pharmacists have covenantal or fiducial relationships with their patients. That is, they are obligated to put the best interests of their patients ahead of their own. Pharmacists must be trustworthy. To earn the trust of the patients, pharmacists must operate upon values such as responsibility, a service orientation, commitment to excellence, and collaboration. They must be competent in the knowledge and skills that are required for their profession and must be dedicated to maintain that competency throughout their careers. Pharmacists must possess virtues such as honesty, integrity, and altruism. As professionals, pharmacists must display attitudes such as empathy, care, compassion, and social responsibility. Finally, pharmacists should promote confidence in their profession by exemplifying professional demeanor in all interactions.

Students in the professional program are required to participate in co-curricular activities to help foster their professional development. Required yearly activities include, but are not limited to, Professional Orientation and Outreach and Advocacy Day. (Students in the first professional year of the program are required to attend either Missouri or Illinois Legislative Day to fulfill their annual Outreach and Advocacy Day requirement.) Additionally, students are required to participate in at least four credit hours of elective activity related to professional enrichment each year. These credits are offered during orientation and through activities scheduled throughout the year. Several options are available, including CV Preparation, Interviewing Skills, Professional Communication, Leadership Development, and Financial Planning, among others.
In addition to the co-curricular requirements above, professionalism concepts will be taught in various classrooms. Also, students will be able to develop professionally via extra-curricular activities and will receive guidance in all of these experiences through learning communities in the professional program. All students in the professional program will be held accountable for, and graded on, professionalism in every course in the experiential curriculum. Unprofessional incidents on campus will not be tolerated and will be subject to review by the College Conduct Board.

It is the responsibility of a professional school to graduate well-rounded students. As part of fulfilling this responsibility, St. Louis College of Pharmacy offers liberal arts convocations. Attendance at a minimum of six liberal arts convocations is required of all freshman students. Students are expected to complete this requirement in their freshman year. Upper-level students are encouraged to attend the programs, which cover a broad range of subjects in the humanities and social sciences.

A separate professional GPA will be reported on the student’s transcript. The required professional courses included in this GPA calculation are designated in the Curricula pages of this catalog. Students must have a minimum professional GPA of 2.0 (as well as a minimum cumulative GPA of 2.0) before they will be allowed to enroll in the advanced pharmacy practice experience courses in the last year of the professional program.

For progression purposes, summer sessions are not considered to be regular academic semesters, which means summer does not count as a probation semester. However, grades earned during the summer are included in the calculation of a student’s cumulative GPA, which means one can return to good academic standing as a result of summer school grades if the cumulative GPA at the end of the summer session is 2.0 or higher. One exception occurs at the end of the summer session for the last year of the pre-professional program (year 2 for students in the 6-year curriculum and year 3 for students in the 7-year curriculum) when the cumulative GPA must be 2.7 or higher to advance into the professional program. Unless noted otherwise in the summer school course schedule, students cannot take more than one course in each of the two summer sessions.

**Repeating Courses**

When a course is retaken, the grade earned will replace the initial grade, even if that grade is lower than the initial grade. If a student repeats a required course in years 1-5 (for students in the 6-year curriculum) or years 1-6 (for students in the 7-year curriculum), the grade received in that course must be a letter grade of C or better (not a C-) or the student is subject to academic dismissal.

For students in the last year of the professional program, experiential program policies for remediation of grades below C- will apply. These policies are noted above and are outlined in more detail in the Advanced Pharmacy Practice Experience Manual.

Students in the pre-professional program must repeat, in the subsequent term or summer session, any course in which they receive a grade lower than C-. Students in years 3-5 (ie, professional years 1 – 3) may have only two course grades lower than C- in required courses and, therefore, may choose or be required to repeat a course.

**Academic Requirements to Progress into Professional Year 1 (P1)**
The College’s academic progression policy into professional year 1 is as follows:
• At the end of the spring semester of the last pre-professional year, students must have a cumulative GPA of at least 2.7.
• At the end of the spring semester of the last pre-professional year, students must have no grades below a C-. Students not meeting these requirements will be unable to progress into P1 unless remediation in the summer session results in the required cumulative GPA and no grades below C-.

Non-Academic Requirements for Entry into Professional Year 1 (P1)
In addition to successful completion of the pre-professional curriculum, students must successfully complete an in-person interview and writing assessment to ensure entry into the professional program at St. Louis College of Pharmacy. An applicant may be denied entrance into the professional program based solely upon his/her interview performance and/or poor writing assessment performance, regardless of his/her overall academic standing.

Interview
• Students currently enrolled at STLCOP will receive their interview schedules prior to the end of the fall semester. Interviews will be conducted during the winter break, between the fall and spring semesters. Transfer students may also be interviewed at this time as well as later throughout the semester as applications are processed. All travel related expenses are the responsibility of the applicant.
• Students who are unable to attend their scheduled interview must contact the office of the Dean of Pharmacy at least 2 weeks prior to the interview date. Absence due to illness or other emergency also requires immediate notification. Students who are late or absent without notifying the Dean of Pharmacy may be disqualified from consideration for progression/admission into the professional program (P1).

Writing Assessment
Students will be required to demonstrate minimum acceptable writing proficiency prior to progression into P1.

Process for Evaluation of Interview and Writing Proficiency
Students will receive specific information about the interview process during the freshman orientation process and during the fall semester of the last year of the pre-professional program. Students will be given an opportunity to practice their interview skills and receive feedback prior to the actual interview. Each student will be evaluated by two independent interviewers. Five categories are evaluated in these interviews (decision making, planning/organizing, continuous learning, work standards and communication). Students must pass three of the five categories to successfully complete this phase of the progression/admission process. Students’ writing proficiency will be evaluated based on criteria developed by the English faculty at the College.

Results and Consequences
Students will be notified of the results of their interviews by March 1. Students who fail the interview may contact their advisors to receive feedback provided by the interviewers. Students who fail the interview and/or the writing assessment will have an opportunity for the School of Pharmacy’s Admissions and Progressions Committee to re-evaluate their interviews/writing assessments. Students who wish for their results to be re-evaluated by the School of Pharmacy’s Admissions and Progressions Committee must send this request, in writing, to the Chair of the Admissions and Progressions Committee by March 15. The decision of the School of Pharmacy’s Admissions and Progressions committee will be final. Failure of the interview and/or writing assessment will disqualify a student from progression into the first professional year of the program.
Undergraduate Program Academic Probation and Dismissal Policies for
the 7-Year Doctor of Pharmacy Program with integrated Bachelor of
Science Degree
The following undergraduate academic probation and dismissal policies apply to all students who enroll in the undergraduate program during or after fall 2014.

Undergraduate Probation Policy
A student will be placed on academic probation, and is considered not in good academic standing, if he/she earns a semester GPA less than 2.00 (even if the cumulative GPA is greater than 2.00). In order to be removed from academic probation, the student’s semester and cumulative GPA at the end of the probationary must be 2.0 or greater.

Undergraduate Dismissal Policy
A student will be subject to academic dismissal from the College for any one of the following reasons:
• Student is placed on Academic Probation in two consecutive semesters.
• Student is placed on Academic Probation for a third time (non-consecutive).
• Student earns less than a C- when repeating a required course.

Professional Program Probation and Dismissal Policies for the 7-Year Doctor of Pharmacy Program with integrated Bachelor of Science Degree
The following academic probation and dismissal policies apply to all students who enter the professional program during or after fall 2016. (NOTE: the policies are subject to change before fall 2016.)

Academic Probation
A student who is not in good academic standing will be placed on academic probation for the following reasons:
• Student earns a cumulative GPA less than 2.00.
Academic probation requires that the student’s cumulative GPA at the end of the probation period (one semester) is equal to or greater than 2.00.

Academic Dismissal
A student will be subject to academic dismissal from the College for the following reasons:
• Student fails to meet probation requirements (if on probation from the previous semester);
• Student earns a grade less than C when repeating a required course;
• Student fails to receive a passing grade in at least 12 credit hours per semester (fall and spring) except under extenuating circumstances;
• Student earns a third grade below C- in a required course in years P1-P3;
• Student is placed on Academic Probation for a second time in years P1-P3.
Academic Probation and Dismissal Policies for the 6-Year Doctor of Pharmacy Program

The following academic probation and dismissal policies apply to all students who enrolled in year 1 during or after fall 2010 through fall 2013 (see probation and dismissal policies above for students who enrolled during or after fall 2014).

Academic Probation
A student who is not in good academic standing will be placed on academic probation for the following reasons:
• Student earns a cumulative GPA less than 2.00.
• Student earns more than one grade lower than C- in any single semester in years 1 or 2.

Academic dismissal requires that the student’s cumulative GPA at the end of the probation period (one semester) is equal to or greater than 2.00.

Academic Dismissal
A student will be subject to academic dismissal from the College for the following reasons:
• Student fails to meet probation requirements (if on probation from the previous semester);
• Student earns a grade less than C when repeating a required course;
• Student fails to receive a passing grade in at least 12 credit hours per semester (fall and spring) except under extenuating circumstances;
• Student earns a third grade below C- in a required course in years 3-5 (PY1-PY3);
• Student receives a cumulative GPA less than 2.00 for a second time in years 1 and 2;
• Student is placed on Academic Probation for a second time in years 3-5.

Academic Probation and Dismissal Policies for the 6-Year Doctor of Pharmacy Program

The following academic probation and dismissal policies apply to all students who enrolled in year 1 prior to fall 2010.

Academic Probation
A student who receives a semester or cumulative GPA less than 2.0 is not in good academic standing and will be placed on academic probation.

Academic Dismissal
A student will be subject to academic dismissal from the College for the following reasons:
• Student receives a semester or cumulative GPA less than 2.0 for a second time in years 3-6, whether in consecutive or non-consecutive semesters;
• Student fails to receive a passing grade in at least 22 credit hours (fall and spring semesters) each year they are enrolled in the College, except under extenuating circumstances.

The procedures for appealing an academic dismissal are outlined in the Student Handbook.
Coursework Taken Outside the College

All courses taken outside the College must receive prior approval through the Registrar’s Office and must comply with Academic Requirements and Policies the Rules Governing Courses Taken Outside the College. A Course Out form is to be signed by both the student and the Registrar and a copy is retained in the student’s file. Without prior approval, there is no assurance that credit will be granted for courses taken outside the College.

Approval will not be given to take coursework outside the College if the student’s schedule can be reasonably modified to accommodate enrollment in the course during the same semester, or if such work will result in less than full-time study at the College during the semester in which the course normally would have been taken.

Courses taught at the College during the summer cannot be taken outside the College during that summer if the student is retaking the course due to having received a poor grade in that course. Exceptions require approval from the appropriate Dean’s Office.

Grades of a C or better from outside colleges for repeated courses will be transcribed by St. Louis College of Pharmacy as a TG (transferred grade) with the weight of C (2.0). All other courses from outside colleges will be transcribed as CR and will not affect the student’s College grade point average. No credit will be transferred for grades less than C. (NOTE: A letter grade of C- is considered to be less than C and will not be transferred.)

Requirements for State Licensure

To practice pharmacy, one must become licensed as a pharmacist in the state in which he/she wishes to practice. Licensure means that the candidate has met the eligibility requirements for licensure and successfully passed an examination.

Most states’ eligibility requirements include graduation from an accredited school or college of pharmacy and completion of a specific number of hours of practical experience under the supervision of a pharmacist. Since these requirements are not uniform from state to state, students should obtain information regarding examination and practical experience requirements from the board of pharmacy in the state in which they plan to be licensed.

The pharmacist licensure exam consists of two parts. Part one is a standardized, computer-based exam known as NAPLEX (North American Pharmacist Licensure Examination). NAPLEX is administered through the state board of pharmacy and consists of questions drawn from all aspects of pharmacy. Part two is the MPJE (Multistate Pharmacy Jurisprudence Examination), a test on the federal and state laws that affect pharmacy. Both NAPLEX and MPJE are administered at specific testing centers across the country. For information about these exams, students should contact the board of pharmacy in the state in which they plan to be licensed and consult the National Association of Boards of Pharmacy (NABP) Web site.

Once licensed, the pharmacist can reciprocate this license to most states.

Student Conduct

St. Louis College of Pharmacy students are expected to conduct themselves in a manner that will be a credit
to the profession of pharmacy and to the College. Students are expected to observe the rules and regulations of
the College as specified in the Student Code. Any student guilty of conduct detrimental to the best interests of
the College may be expelled.

**Financial Scholarships**

Each year, scholarships are conferred upon deserving students by St. Louis College of Pharmacy. To be
eligible for these scholarships, the student must meet specific criteria established for individual awards.
Students must apply in an online application in order to be eligible. Generally, applications are due by
December for awards for the following school year. Awardees are expected to attend the scholarship dinner to
receive their award. The following will disqualify a student from consideration: an academic dishonesty or
Honor Code violation on their record, or severe instances of nonacademic misconduct resulting in suspensions.

**Scholastic Honors**

Graduating students are eligible for several awards that are conferred at the Graduate Recognition Program.
These awardees are determined by the faculty based on the specific criteria established for individual awards.

Students who maintain a semester average of 3.5 or better in a regular program of 12 or more credit hours
for any semester are given Dean’s list standing during the following semester.

**Withdrawing from the College**

Students who wish to withdraw from the College must receive the approval of the Registrar to begin the
process of withdrawing from the College. Students will be required to complete a withdrawal form. Failure to
complete a withdrawal form will result in the student receiving failing grades in all courses attempted. Any
exceptions to this rule will be determined by the appropriate Dean’s Office. Students who have officially
withdrawn from the College may only reapply through normal admissions procedures.

**Transcripts**

Official and unofficial transcripts must be requested in writing and must bear the signature of the requesting
student. Cost for a transcript, official or unofficial, is $5, and transcripts will be issued only to students who are
in good financial standing with the College. Transcripts will be processed within three business days, five
business days during grading and registration periods.

**Leave of Absence**

St. Louis College of Pharmacy recognizes that there are situations when a student may require a leave of
absence. If such a situation arises, a student must submit a written request to the appropriate Dean’s Office.
This letter must include the reason for the leave and the time period requested. The student normally will
receive a letter from the Dean’s Office within five business days stating approval or disapproval of the leave,
and the student will then be given a reapplication deadline. Leaves normally are permitted for a maximum of
one year and are issued for medical or personal reasons. Classes taken outside the College during the period of
the leave will NOT be accepted in transfer. Exceptions to this policy will be determined by the Dean’s Office.

A leave requested after the official withdrawal date in a semester will be granted only if there are serious
extenuating circumstances.
Family Educational Rights & Privacy Act (FERPA)

The Family Educational Rights & Privacy Act (FERPA) is a federal law designed to protect the privacy of students’ educational records.

Parents’ Rights

The rights of FERPA, originally given to parents of students in K-12, are transferred to their sons and daughters once they reach college age. According to FERPA guidelines, all rights of parents (including the right to examine education records and consent to the disclosure of personally identifiable material) transfer to the student either at age 18 or upon attendance at an institution of post-secondary education. Educational information will be released to a student’s parents only with the written consent of the student. The following is the only exception FERPA allows for parents seeking information about their child:

The parent(s) should make their request in writing, indicating the particular records requested and declaring specifically that the student is the requestor(s)’s dependent.

St. Louis College of Pharmacy must ask for the federal income tax form filed by the parents for the most recent tax year. This means the requesting parent must provide a copy of the federal income tax form for the current year. It cannot be a tax form from several years ago. The College will then verify that the student is indeed listed as a dependent on the tax form of the requesting parent. Once verification is made, the form will be given back to the parent and a note will be made on the request form that the verification was made.

Because the FERPA rights belong to the eligible student, the College will notify the student that his or her parents have asked to review the records and on what date the review will take place. If the student responds that he or she does not want the records shared with the parents, the College will refer the parents back to the student. At this point, a written consent is required from the student.

Spouses’ Rights

FERPA recognizes a spouse as an unrelated third party and does not make any provision for a spouse to have access to a student’s educational records without the written consent of the student.

Students’ Rights

The Family Educational Rights & Privacy Act (FERPA) affords students certain rights with respect to their education records. They are:

1. The right to inspect and review the student’s education records within 45 days of the day the College receives a request for access. Students should submit to the registrar, the Dean, the chair of the academic department, or another appropriate official, written requests that identify the record(s) they wish to inspect. The College official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the College official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student’s education records if the student believes they are inaccurate or misleading.

Students may ask the College to amend a record that they believe is inaccurate or misleading. They should
write the College official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

If the College decides not to amend the record as requested by the student, the College will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to consent to disclosure of personally identifiable information contained in the student’s education records, except to the extent that FERPA authorizes disclosure without consent.

One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her academic or enrollment services responsibilities. A school official is a person employed by the College in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the College has contracted (such as an attorney, auditor, or collection agent); a person serving on the board of trustees; or a student serving on an official committee, such as disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

Upon request, the College discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

**Disclosure without consent also may be made to:**
- Certain government officials in order to carry out lawful functions
- Appropriate parties in connection with financial aid to a student
- Organizations doing legitimate studies for the school accrediting agencies
- Individuals who have obtained court orders or subpoenas
- Persons who need to know in cases of health or safety emergencies
- State and local authorities to which disclosure is required by state laws

Schools also may disclose, without consent, “directory type” information unless notified to the contrary in writing by the student to the Registrar’s Office. St. Louis College of Pharmacy has designated the following as directory information:

Name
Address
Telephone number
Date of birth
Enrollment status
Dates of attendance
(including whether currently enrolled)
Degree awarded
Photograph
E-mail address

An eligible student who does not wish for “directory type” information to be released without consent must
notify the Office of the Registrar within the first 10 days of the term.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by St. Louis College of Pharmacy to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

   **Family Policy Compliance Office**
   U.S. Department of Education  
   400 Maryland Ave., SW  
   Washington, DC 20202  

5. Any student may file a complaint concerning an alleged violation of the Accreditation Council for Pharmacy Accreditation Standards by submitting said complaint in writing to the Dean of Pharmacy. (See the Student Code for College policy for handling student grievances.) A student with an unresolved complaint related to accreditation standards can contact ACPE in writing at the address provided in the Accreditation section.

**Financial Matters**

The Financial Aid Office is committed to helping students navigate the financial aid application process and securing the aid necessary to pursue a degree. The Financial Aid Office can be reached at 314.446.8328.

**Tuition and Fees**

**Year One**
- Per semester (12-18 credit hours) $13,096
- Per credit hour in excess of 18 credit hours $865
- Per credit hour less than 12 credit hours $865
- Summer session per credit hour $865

**Year Two**
- Per semester (12-18 credit hours) $12,939
- Per credit hour in excess of 18 credit hours $865
- Per credit hour less than 12 credit hours $865
- Summer session per credit hour $865

**Years Three, Four, and Five**
- Per semester (12-18 credit hours) $14,625
- Per credit hour in excess of 18 credit hours $975
- Per credit hour less than 12 credit hours $975
- Summer session per credit hour $975

**Year Six**
- Per semester (fall, spring, summer) $9,750
Rotations that need to be repeated will be charged at the credit hour rate for the semester in which it is retaken.

Application Fee $50

Student Activity Fee—per semester $100

Student Health Fee—per semester $60

New Student Programs Fee (first-year students) $300

New Student Programs Fee (advanced standing) $75

Professional Program Fee—per semester $30

Professional Liability Insurance Fee (years 3 through 6) (To be determined by insurance company)

Graduation Fee $455

Student Health Insurance (required if not already covered)—per year $2,021

Residence Hall Fee—academic year

Shared units: room $5,489 and board: declining balance, minimum purchase of $3,828

Suites: room $6,475 and board: declining balance, minimum purchase of $2,440

Optional $3,828

Residence Hall Security Deposit—per student
Academic Year (refundable) $150

Parking Lot Fee—per year (on campus, optional) $625

Late Registration Fee $100

Deferred-Payment Plan Fee $50

Late Fee—Deferred-Payment Plan (monthly) one percent per month of the unpaid balance
Minimum charge is $5 per month.

NOTE: Tuition, miscellaneous fees, deposits, and housing fees are subject to change without notice.

All College fees including tuition, fees, and Residence Hall housing are assessed by semester and are payable two weeks prior to the beginning of each semester. If these semester fees are not paid in full, a charge
of $50 will be added to defer payment of the balance through the College’s deferred payment plan.

In the deferred payment plan, at least 25 percent of the total amount due for tuition, fees, and housing for each semester must be paid two weeks prior to the beginning of that semester. The balance shall be paid in three equal installments on Sept. 15, Oct. 15, and Nov. 15 for the fall semester and Feb. 15, March 15, and April 15 for the spring semester.

**Statements are Mailed on a Monthly Basis**

Within 15 working days of notification of acceptance for admission, students who apply under the Early Decision plan must submit a $500 nonrefundable deposit. Students who apply under Regular Decision are asked to submit a $300 refundable deposit within 15 working days of notification of acceptance for admission.

**Residence Hall Deposits**

Newly accepted students will be mailed a housing application following receipt of their academic deposit. The security/damage deposit of $150 must accompany the completed housing application. This deposit will be returned when the room is vacated, provided that no damage has been done to the room. A $100 room deposit must accompany the signed housing contract. If written cancellation is made before June 1, the deposit is refunded.

Returning students must submit the $100 room deposit with their completed housing contract. If cancellation in writing is made before June 1, the deposit is refunded. An additional $500 nonrefundable payment is due by June 1. Failure to remit this payment by the deadline will result in room cancellation, and no refund will be made on the first payment.

**Tuition Refunds**

**Time of Withdrawal/Portion of Tuition Refunded**

**Regular Semester:** Tuition and fees are refunded on a pro-rata basis. No refund after 60 percent of the semester has passed.

**Summer Session:** After the second day, the tuition and fees are refunded on a pro-rata basis. No refund after 60 percent of the session has passed.

**Payments**

All housing payments are due at the beginning of each semester. Installment payments are accepted as part of the deferred payment plan. Students with outstanding balances will not be allowed to register for subsequent semesters. Payment of all College fees and obligations is a requirement for graduation. If fees or obligations to the College remain unpaid after the student is graduated or leaves school, the College reserves the right to withhold applications for state board examinations and certified copies of student transcripts, as well as the student’s diploma.

**Tuition and Miscellaneous Fee Refunds**

The application fee and the student activities fee are not refundable. The following graduated scales are used to determine refunds for students withdrawing from the College:

One hundred percent of tuition less the tuition deposit will be refunded to first-semester first-year students
and first-semester transfer students only if written notice of cancellation is received by the academic dean after May 1, but prior to the first day of classes.

Any notifications of withdrawal or requests for refund must be in writing and addressed to the appropriate dean whose permission is necessary for official withdrawal and/or refund of tuition. In the absence of this approval, the student will receive F grades in all courses taken that semester.

Any appeal of the dean’s decision must be submitted in writing within 15 days of the dean’s written notice to the student on approval or nonapproval of the student’s withdrawal. Upon receiving a request, a hearing with the dean’s executive committee will be scheduled.

Tuition refunds for the semester are based on the documented last date of attendance listed on the student withdrawal form. Title IV financial aid refunds will also be calculated based upon the same last date of attendance. Weeks coincide with the first day of class. For example, weeks that begin on Wednesday would end on Tuesday.

**Residence Hall Refunds**

Residence Hall contracts are for the entire academic year (two semesters) and can be cancelled ONLY in the event of termination of enrollment or marriage. Fees are assessed on a semester basis.

- Request for cancellation is to be submitted to the Facilities Management Office.
- If contract cancellation is approved, a refund will be made on a pro-rata basis. No refund after 60 percent of the semester has passed.
- If payments are being made under the deferred payment plan and the refundable amount, based on the above schedule, is less than the unpaid balance, the difference is still due the College. The amount of refund will be applied to any outstanding obligation due the College before a refund check is authorized.

**Annual and Endowed Scholarships**

Through the generosity of alumni, corporations, and friends of the College, annual and endowed scholarships are awarded each year. These scholarships are separate from the College funded, merit-based institutional scholarships given. To be considered for the annual and endowed scholarships, students must complete an online application in the fall. Students are notified at the start of the application process.

Each year, the College hosts a Scholarships and Awards Ceremony at which annual and endowed scholarships are awarded. For the 2014-15 academic year, 197 awards totaling $423,000 in scholarship assistance were presented to 176 students. Selection criteria for these largely need-based scholarships may also be based on academic achievement and other qualities such as leadership, professional attitude, community service, or employment. In each case, the donor of the scholarships helps set the criteria for the scholarship.

For more information about scholarships and awards, please contact the Advancement Office.

**Financial Assistance**

St. Louis College of Pharmacy offers an affordable, quality, professional education by combining the family contribution with grants, scholarships, loans, and student employment. While the primary responsibility for funding a college education lies with the student and his or her family, St. Louis College of Pharmacy has developed a comprehensive assistance program.
**Application**

The College requires all students applying for aid to follow the procedures outlined below. This will ensure consideration for all types of assistance:

1. Complete the admission process (Incoming 1st year and transfer students only).


3. Complete the Free Application for Federal Student Aid (FAFSA) and request the results be sent to St. Louis College of Pharmacy. (The FAFSA application can be found at www.fafsa.ed.gov. The St. Louis College of Pharmacy FAFSA code is 002504.)

4. To be eligible to receive federal student aid, a student must have a high school diploma or equivalent, pass an approved ability-to-benefit test, or have been homeschooled.

5. Admissions and financial aid files, including the federal verification process if selected by the Department of Education or the Financial Aid Office, must be complete before any grants, scholarships, and/or loans can be processed.

Upon evaluating the eligibility of the student, the College will list awards on the campus-based financial aid system, Net Partner. Students will need to accept awards at https://secure.stlcop.edu/NetPartnerStudent/. Awards not accepted within 10 days may be forfeited.

Loans (PLUS and Private) may not appear on Net Partner based on the status of the loan application with the lender. Processing by the Financial Aid Office does not mean the loan has been approved by the lender. The lender will send notice of approval or denial directly to the borrower (student or parent).

*Students seeking St. Louis College of Pharmacy scholarships ONLY may skip steps 2 through 5.*

*NOTE: Federal financial aid may not be used for courses taken more than two times.*

**Financial Aid Calculations**

Federal and state aid is primarily based upon financial need. Students must apply through the FAFSA to be considered. This requires disclosures of student and family income, assets, savings, family size, and any unusual circumstances affecting family finances.

The Expected Family Contribution (EFC) is calculated, per federal regulations, by the U.S. Department of Education and returned to the student (and the College) in the form of a Student Aid Report (SAR). The cost of attendance (i.e., tuition, room and board, books, supplies, personal items, travel expenses, etc.) minus the EFC, results in the Student’s Unmet Need.

Cost of Attendance
- Expected Family Contribution
Student’s Unmet Need

Students are encouraged to apply for aid as soon as possible after January 1 for the following academic year.

**Financial Assistance Packages**

Only students pursuing their first undergraduate degree are eligible for federal and state grants. For financial aid purposes only, the College classifies students entering year four and above as graduate-level students. Graduate-level students are not eligible for federal or state grants or scholarships; however, they are eligible to benefit from additional resources available through the Federal Direct Loan program.

**Federal Pell Grant (funded by the federal government)**

Eligibility is determined by the Expected Family Contribution (EFC) figure on the Student Aid Report (SAR) and the number of credit hours for which the student registers each semester. The student must be pursuing his or her first undergraduate degree to receive this grant.

**Federal Supplemental Educational Opportunity Grant (SEOG) (funded by the federal government)**

Eligibility is determined based upon exceptional need criteria. Preference is given to Pell Grant recipients. The student must be pursuing his or her first undergraduate degree and registered as at least a half-time student to receive this grant.

**Access Missouri Grant (funded by the state of Missouri)**

The student must be pursuing his or her first undergraduate degree, registered as a full-time student, demonstrate need (as determined by the state of Missouri), and reside permanently in Missouri. A cumulative GPA of 2.5 is required to renew this award. Pharmacy students at St. Louis College of Pharmacy are eligible to receive this grant for the first three years ONLY.

**Missouri Higher Education Academic Scholarship (Bright Flight) (funded by the state of Missouri)**

This financial aid is awarded to students with the highest SAT or ACT scores as determined by the state of Missouri. The student must be a resident of Missouri. A cumulative GPA of 2.5 is required to renew this award. The student must be pursuing his or her first undergraduate degree. Pharmacy students at St. Louis College of Pharmacy are eligible to receive this for the first three years ONLY.

**Federal Perkins Loan (funded by the federal government)**

Eligibility is determined based on exceptional need criteria. Interest and repayment are deferred as long as the student is enrolled at least half time. A signed promissory note must be on file before funds will be disbursed.

**Health Professions Loan (funded by the federal government)**

Eligibility is determined based on exceptional need criteria utilizing the parent and student information. The student must be registered full time. Preference will be given to students in years one through three who have an EFC of less than $8,500. Federal guidelines require recipients to provide copies of student and parent tax transcripts—regardless of age and dependent/independent status. A signed promissory note, self-certification form, and acknowledgement of truth in lending statements must be on file before funds will be disbursed. Students also are required to complete an online entrance interview each year they borrow.
First-Year Scholarships
(funded by St. Louis College of Pharmacy)
New students may be awarded scholarships based on a holistic evaluation of students’ academic achievement, financial need, community service, and leadership experience.

- Students are eligible to renew first-year awards for years two and three. Renewal criteria are:

Year level one (renewing awards for grade level two):
Students must achieve a GPA of 3.0 or higher in their initial fall semester and remain in good academic standing (as defined by the Registrar’s Office) for their initial spring semester.

Year level two (renewing awards for grade level three):
First Priority: students who renewed their awards for year two and achieve a cumulative GPA of 3.0 or higher at the end of their second year fall semester.

Second Priority: awards are renewed in descending order of fall semester cumulative GPA’s based on availability of funds.

High Proficiency Scholarship (funded by St. Louis College of Pharmacy)
High Proficiency scholarships are awarded to full-time returning students in years four through six. Beginning with the student’s third year, the cumulative GPA calculated after the fall semester will be used for awards to be received in the following academic year. Award qualification is a cumulative GPA of 3.2 or higher at the end of the fall semester.

Student Ambassadors
Student ambassadors are selected to represent the College as student admission representatives. The criteria include previous participation as a volunteer at Enrollment Services events (i.e., open house, etc.) Each award is in the amount of $500 per semester ($1,000 for the academic year).

In order to receive this award, each student must fulfill the requirements outlined in the contract and be in good academic standing. In the event that all requirements are not met each semester, the student understands that the scholarship will be revoked and the $500 semester award removed from the student’s account.

SNPhA Scholarship
The St. Louis College of Pharmacy SNPhA Scholarship is awarded to outstanding students for their dedication and contribution to the College’s minority recruitment program. Each award is in the amount of $500 per semester ($1,000 for the academic year).

In order to receive this award, each student must fulfill the requirements outlined in the contract and be in good academic standing. In the event that all requirements are not met each semester, the student understands that the scholarship will be revoked and the $500 semester award removed from the student’s account.

Athletic Scholarships
Student athletes may be eligible to receive institutional scholarships for participating in College athletics. Scholarship recipients and amounts will be determined by the Athletics Department.
Students with any instance of academic dishonesty or Honor Code violation on their record, or severe instances of nonacademic misconduct such as suspensions or dismissals, will immediately forfeit their First-Year scholarship, High Proficiency scholarship, Ambassador scholarship, SNPhA scholarship, and/or institutional grants awarded by the Financial Aid Office. Scholarship forfeiture will occur when the Financial Aid Office receives notification of such a violation from the Dean’s Office.

Federal Direct Loan (federally funded)
Subsidized Federal Direct Loan eligibility is determined on the basis of need. The government subsidizes these loans by paying the interest while the student is in school.

Unsubsidized Federal Direct Loan eligibility is determined by the cost of education and available resources. Interest may be accrued or paid, but it is the student’s responsibility. The student must be registered at least half-time to be eligible.

Federal Direct parent & graduate PLUS Loan (federally funded)
Parent PLUS loans are originated by parents or stepparents of eligible dependent children. Graduate PLUS loans are originated by graduate level students. Eligibility is determined on the basis of the cost of education, available resources, and borrower’s credit history. Students must be registered at least half-time. Only parents or stepparents of dependent, undergraduate-level students may apply for parent PLUS Loans.

Students are eligible to borrow under the Direct Loan Program as follows:

Undergraduate Levels
Year One
Dependent Eligibility $3,500 Subsidized + $2,000 Unsubsidized

Independent Eligibility $3,500 Subsidized + $6,000 Unsubsidized

Year Two
Dependent Eligibility $4,500 Subsidized + $2,000 Unsubsidized

Independent Eligibility $4,500 Subsidized + $6,000 Unsubsidized

Year Three
Dependent Eligibility $5,500 Subsidized + $2,000 Unsubsidized

Independent Eligibility $5,500 Subsidized + $7,000 Unsubsidized

Graduate Levels
Year Four **
Graduate Eligibility $20,500 Unsubsidized + $12,500 *Additional Unsubsidized

Year Five **
Graduate Eligibility $20,500 Unsubsidized + $12,500 *Additional Unsubsidized
Year Six
Graduate Eligibility $20,500 Unsubsidized + $16,667 *Additional Unsubsidized

Sixth-year disbursements are issued in thirds. Federal regulations require students attend class (i.e., rotations) when disbursements are made. A disbursement will be delayed if a student has an off-rotation scheduled during the regular disbursement date of an enrollment period.

*Additional unsubsidized Direct Loan eligibility requires full-time enrollment as determined by the Registrar.

** Additional unsubsidized Direct Loan eligibility of $12,500 is based on a 9-month enrollment period. Students enrolled in additional months will increase their additional unsubsidized eligibility by $1,389/month.

Undergraduate dependent students can borrow a maximum of $31,000 while independent students can borrow a maximum of $57,500, of which up to $23,000 may be subsidized loans.

Graduate students can borrow a maximum of $224,000 (combined graduate and undergraduate) of which a maximum of $65,500 can be subsidized.

A student is classified as dependent or independent by the Department of Education based on information provided on the FAFSA.

Students reaching graduate level are not eligible for federal and state grant or scholarship assistance.

Private Loan (funded by private lenders)
Eligibility criteria and interest rates vary from lender to lender. Private loans must be pre-approved by the lender prior to the College certifying the loan.

Federal Workstudy (funded by the federal government)
Eligibility is based on need. Students awarded under this program earn the funds as they work part time. The funds earned, less taxes, are paid directly to the student.

Institutional Aid (funded by St. Louis College of Pharmacy)
Eligibility requirements vary among awards, but are generally based on need and/or academic standing.

External Aid (funding by external sources—i.e., employers, scholarship foundations, local businesses, etc.)
Eligibility requirements will vary and are established by the entity making the award. Students are required to report all sources of aid to the Office of Financial Aid regardless of aid type (grant or loan). Aid must be reported even if the benefits are paid directly to the student.

Annual and Endowed Scholarships (funded by various sources)
Eligibility is established by the donor. A complete list of these scholarships is available on the College Web site.
Special Circumstances
If a student has special circumstances or the financial situation has changed since completing the Free Application for Federal Student Aid (FAFSA), the student should contact the Financial Aid Office for additional information and instruction.

Disbursement of Aid
Pell, SEOG, Perkins Loans, Health Profession Loans, and institutional aid will automatically be credited to the student’s account.

The following is a list of awards that are not automatically credited to the student’s account: federal workstudy, federal Direct Loans, PLUS Loans, private loans, Missouri state grants, and external aid where funds must be disbursed to St. Louis College of Pharmacy. These awards are applied to students’ accounts upon receipt of funding. Disbursements requiring student/parent signatures will be applied upon receipt of signatures. Federal workstudy is paid directly to the student, less taxes, as he or she earns the wages.

Financial aid is first applied to tuition and fee charges, then to on-campus room and board expenses. If a student receives additional external aid (scholarships or loans) that exceeds these charges, the student should complete and submit a refund request directly to the Business Office. Refunds will be issued to the student based upon Business Office policy. Financial aid cannot exceed cost of attendance as defined earlier in this catalog.

The Business Office will not be notified of awards received until the student accepts the award(s) online at: https://secure.stlcop.edu/NetPartnerStudent/.

Award Conditions
St. Louis College of Pharmacy may adjust financial aid to reflect changes to the student’s personal or financial circumstances, registration changes, or new resources available. If a change in the aid package is required, the Financial Aid Office will send a revised award notice to the student.

The student’s award offer is based upon the number of credit hours indicated on the St. Louis College of Pharmacy application for financial aid. It is the student’s responsibility to notify the Financial Aid Office immediately of any changes in registration, marital status, housing arrangements, or any EXTERNAL AWARDS.

Federal tax transcripts must be submitted upon request in order to comply with federal regulations. If the actual IRS data is different from that reported on the aid application, the Financial Aid Office will revise the award offer accordingly.

Awards from government and private sources are dependent upon receipt of funds from the appropriate agencies. The student is responsible for any re-application process needed to continue receipt of these funds. The College will not replace funds lost due to nonrenewal of applications. Awards in the financial aid package may vary from year to year depending on financial circumstances and availability of funds.

Eligibility for all federal aid requires students to meet the following criteria:
• the student is a U.S. citizen or eligible noncitizen
Satisfactory Academic Progress for Financial Aid

In accordance with Federal regulations (CFR 668.32(f)), the Financial Aid Office conducts evaluations of satisfactory academic progress to determine students’ eligibility for continued receipt of Title IV financial aid (Pell grants, FSEOG, Perkins loans, Direct Loans). The financial aid evaluation of satisfactory academic progression is based on the College’s Academic Probation and Dismissal Policies. The academic probation and dismissal policies are applicable to all students pursuing the Doctor of Pharmacy degree, regardless of their eligibility for Title IV financial aid.

Academic performance is monitored by a team of members from the Dean’s Office, Registrar’s Office, and the Faculty Appeals Committee. Students are required to maintain good academic standing while meeting appropriate academic benchmarks designated for their specific levels of study.

Students will be considered to be making satisfactory academic progress as long as they are permitted to continue pursuit of the Doctor of Pharmacy without being placed on academic probation or becoming eligible for dismissal from the College. Satisfactory progress is measured following each period of enrollment, including summer terms.

Financial Aid Warning

When a student fails to meet the academic good standing requirements, the Dean’s Office will place the student on academic probation and will recommend specific terms and/or timeframes for improvement. A student placed on a first academic probation will also be placed on financial aid warning.

Students on financial aid warning are eligible to receive Title IV funds for the period of enrollment to which their academic probation applies. Failure to satisfy the terms to return to good academic standing as stated by the Dean’s Office will result in students being placed on financial aid suspension until they return to good academic standing.

Financial Aid Suspension

Students eligible for academic dismissal from the College as determined by the Academic Probation and Dismissal Policies and the Dean’s Office will be placed on financial aid suspension. The Financial Aid Office
will notify the student of a suspension in writing.

Suspension results when a student fails to correct deficiencies during the probationary period. Students placed on financial aid suspension are not eligible to receive Title IV funds. Financial aid suspension will be lifted for students allowed to continue in the Doctor of Pharmacy program once they resume standards of good academic standing according to the Academic Probation and Dismissal Policies.

Notification of Financial Aid Status
Students placed on financial aid warning or suspension will receive a letter from the Financial Aid Office detailing the reasons for and consequences of the financial aid status. The letter will also cite the stipulations listed in their Academic Probation letter as conditions for resuming satisfactory progress.

Appeals
All students placed on financial aid suspension have the option to appeal their status to the Director of Financial Aid. Grounds for successful appeals include health, family, and/or financial distress that may have contributed to failure to meet satisfactory progress. Appeals may by submitted in writing to the Director of Financial Aid. The Director will consult with the Financial Aid Office, Registrar’s Office, and Coordinator of Academic Advising before deciding if the appeal will be approved. All financial aid will be placed on hold while appeals are pending.

Successful appeal of academic status to the Faculty Appeals Committee will not guarantee a successful appeal of financial aid suspension. Financial aid suspensions will be considered separately from academic appeals.

Financial Aid Probation
Students removed from suspension by appeal will be placed on financial aid probation for the semester specified. The student will be notified in writing. Students on probation may receive Title IV financial aid during the probationary period of enrollment, but may be placed on suspension during subsequent periods if satisfactory academic progress is not resumed.

Repeat Students
If students are required to repeat an academic year, they will continue to be eligible to receive Federal student aid for the repeat period as long as they are not on financial aid suspension and remain within the maximum timeframe allowed for their level of student (undergraduate/graduate). The student will meet with a financial aid officer to discuss their enrollment status and Federal aid eligibility.

Maximum Time Frame
In the six-year, direct entry Pharm.D. program, students are defined as undergraduate during the first two years of enrollment and as graduate during the final four years of enrollment.

The maximum length of time in which students must complete the academic undergraduate portion of the College’s curriculum is three years, and the maximum length of time in which students must complete the academic graduate portion of the College’s curriculum is six years. Students classified as undergraduate or graduate for more than the aforementioned time frame are subject to financial aid suspension until their enrollment status changes.

Students entering the College as freshmen must complete the Doctor of Pharmacy program in nine years to
remain eligible for Title IV financial aid. Students entering the College as transfers into the graduate program have six years to complete the Doctor of Pharmacy program to remain eligible for Title IV financial aid.

**Incomplete Grades, Course Withdrawals, and Course Repetitions**

Students may continue receiving Federal student aid in semesters immediately following those in which an incomplete grade or course withdrawal (W) is received, as long as the student is not eligible for financial aid suspension and is still on pace to graduate within the maximum time frame.

Students must complete the 208 credit hours required to earn a Doctor of Pharmacy in no more than 310 attempted credit hours; this limit is restricted to courses taken in residence. Additionally, students must successfully complete (pass) at least 67 percent of the credit hours that they attempt per period of enrollment. Courses from which students withdraw earning a “W” on their transcript are counted as hours attempted, though they are not used in grade point average calculations. Transfer credits count toward students’ progress toward graduation, but they are removed from the 310 maximum attempted credit hours calculation. Students failing to achieve these benchmarks may be permitted to continue pursuit of a Doctor of Pharmacy, but eligibility to receive Title IV aid will be affected. Students passing less than 67 percent of their hours attempted during a period of enrollment will be subject to financial aid warnings and/or suspensions. Students attempting more than 310 credit hours will be subject to financial aid suspension.

Students may receive Federal student aid for a course taken a second time (first repeat). After enrolling in a course twice, students will no longer have the course’s credit hours calculated for student enrollment status.

All incomplete grades must be resolved in accordance with academic policies listed in this catalog. Unresolved incomplete grades converted to failing grades will result in a new review of students’ satisfactory academic progress from the previous enrollment period.

**Withdrawal and Refund Policy**

**Withdrawing from St. Louis College of Pharmacy**

All students seeking to withdraw from the College are strongly encouraged to initiate the official withdrawal process by contacting the Registrar (first floor of Jones Hall). The date when students initiate the withdrawal process will be recorded as the last date of attendance, unless a more accurate date is agreed upon by students’ course faculty. The Registrar will notify all appropriate departments (Business Office, Financial Aid, Information Technology, etc.) of students’ exit from the College. The last date of final exams for the most recently completed period of enrollment will be recorded as the final date of attendance for students officially withdrawing at the end of, or between, periods of enrollment.

Students who do not notify the Registrar of their intent to withdraw will be considered unofficially withdrawn from the College. More specifically, students are considered unofficially withdrawn if:

1. They do not register for an immediately subsequent semester without notifying the Registrar of their intent to leave the College, or
2. Students earn failing final grades (F) in all courses for which they were registered in a semester.
3. Students begin a period of enrollment, but are noted as absent during the period.

The Registrar will first attempt to discover a consensus last date of attendance for unofficially withdrawn students by contacting the students’ course faculty. The Registrar will use students’ last date of final exams for
the semester in question when consensus for last date of attendance is unobtainable from faculty. Students noted as absent (normally reported by faculty) during a semester will receive a final date of attendance that is the midpoint date for the semester (50 percent).

**Leaves of Absence**

St. Louis College of Pharmacy recognizes that there are situations when a student may require a leave of absence. If such a situation arises, a student must submit a written request to the Deans’ Office. This letter must include the reason for the leave and the time period requested. The student normally will receive a letter from the Deans’ Office within five business days stating approval or disapproval of the leave, and the student will then be given a reapplication deadline. Leaves normally are permitted for a maximum of one year and are issued for medical or personal reasons. Classes taken outside the College during the period of the leave will NOT be accepted in transfer. Exceptions to this policy will be determined by the Deans’ Office.

A leave requested after the ninth week in a semester will be granted only if there are serious extenuating circumstances.

**Refunds**

Regular Semester: Tuition, fees, and, for students living in on-campus housing, room and board are refunded on a pro-rata basis. Refund calculations will be determined using the actual number of days students complete during a period of enrollment. No refund will be granted after 60 percent of the semester has passed.

Summer Session: After the second day, the tuition and fees are refunded on a pro-rata basis. No refund will be granted after 60 percent of the session has passed.

The Title IV aid earned by students withdrawing from the College may not cover all of the unpaid costs charged by the College. In such cases, withdrawn students must pay the balances not covered by earned Title IV aid to the Business Office before students’ accounts are considered in good standing.

Refund Example: Student A withdraws 23 days into a 110 day semester. The student completed 21 percent of the semester and is responsible to pay 21 percent of the tuition and standard fees charged for the semester ($2,706 of $12,884 in tuition and fees). The student earned just 21 percent of his financial aid ($210 of a $1,000 Pell grant disbursement); the remaining, unearned portion of his financial aid ($790) must be returned to the United States Department of Education. Additionally, Student A owes the College $2,496 after his earned Title IV aid is deducted from his charged tuition and fees ($2,706 minus $210).

**Return of Title IV Federal Funds**

Upon receiving notice of students’ withdrawal dates from the Registrar, the Financial Aid Office will calculate the percentage of a period of enrollment completed and the portion of Federal funds received that must be returned to the Department of Education. Financial Aid will share this calculation with the Business Office.

The Business Office will use the form’s calculations to determine the pro rata charges (tuition, fees, and, when necessary, room and board, and parking) for the payment period, based on the number of days completed within the payment period, and the financial aid (including Title IV assistance) that must be removed from students’ account and returned to Title IV. The Business Office will calculate returned unearned Title IV funds in the following order: Unsubsidized Federal Direct Loan, Subsidized Federal Direct Loan, Federal Perkins
Loan, Federal Direct PLUS Loan, Pell Grant, FSEOG (the College does not award TEACH Grants). Unearned Title IV assistance will be returned within 45 days of the Registrar’s determination of student’s final date of attendance.

The Business Office will send a final bill to withdrawn students documenting pro rata tuition credits and unearned Title IV debits (returns).

For students leaving the College with an outstanding balance owed the College, all unearned Title IV assistance for the payment period, or an equivalent amount in cases when students received a refund resulting from Title IV assistance, will be returned by the College to the Department of Education. The College will send bills to withdrawn students with outstanding balances monthly for six months. If no payment is received within six months from withdrawn students owing $1,000 or more, the Business Office sends the students’ information to a collection agency. If no payment is received within six months from withdrawn student owing less than $1,000, the Business Office forgives the debt, but places a hold against the student’s transcript. Transcripts will not be released until the student pays the outstanding balance.

Students are responsible for repaying unearned Direct Loan disbursements that were refunded to the student by the College. Students may learn their Direct Loan servicer by completing loan exit counseling at www.nslds.ed.gov as detailed in an exit counseling notice sent within 30 days of withdrawal or by visiting the Financial Aid Office.

Financial Aid Verification Policy

Verification is the process of checking the accuracy of the information supplied by financial aid applicants on the Free Application for Federal Student Aid (FAFSA).

The verification requirements delineated in this policy statement apply to all applicants for federal student aid under the following programs:

- The Federal Pell Grant Program
- The Federal Supplemental Educational Opportunity Grant Program
- The Federal Work-Study Program
- The Federal Perkins Loan Program
- The Federal William D. Ford Direct Loan Program

For verification purposes, St. Louis College of Pharmacy (STLCOP) defines a financial aid applicant as an enrolled student who is eligible to receive a federal financial aid award. Aid will not be disbursed from any of the aforementioned federal programs, the Access Missouri Grant or any Institutional need-based awards until the verification process has been completed.

Verification Selection
It is STLCOP’s policy to verify all applicants selected for verification by the Central Processing System (CPS) and all Health Professions Loan recipients not selected by the CPS. STLCOP also reserves the right to select additional applications for verification.

**Notification of Selection**

Your federal Student Aid Report (SAR) will indicate whether or not your file has been selected for verification. The SAR is typically accessed via a link sent to you by the Department of Education after you file your FAFSA. If you are selected for verification, there will be an asterisk* next to your Expected Family Contribution (EFC) figure on your SAR.

You will also receive notification via email from the Financial Aid Office alerting you of your selection and detailing the additional documentation you will be required to submit before your financial aid awards are considered official and disbursable. This statement will be sent when the Financial Aid Office sends notification of your award package which typically occurs within weeks of your FAFSA submission.

**Verification Documentation**

STLCOP encourages all eligible FAFSA filers to use the IRS Data Retrieval Tool to import financial information from the IRS into the FAFSA to ensure accuracy and reduce documents that must be submitted to satisfy verification selection.

*Dependent students* selected for verification must submit a Federal Dependent Verification Worksheet signed by the student and a parent. Parent and student tax return transcripts must be obtained from www.irs.gov for selected students who do not use the IRS Data Retrieval Tool. Individuals reporting income, but not required to file a Federal tax return must submit copies of all Federal W-2s received the previous tax year.

*Independent students* selected for verification must submit a Federal Independent Verification Worksheet signed by the student and his/her spouse (when applicable). Student and spouse (when applicable) tax return transcripts must be obtained from www.irs.gov for selected students who do not use the IRS Data Retrieval Tool. Individuals reporting income, but not required to file a Federal tax return must submit copies of all Federal W-2s received the previous tax year.

**Verification Submission Deadlines**

STLCOP strongly recommends all verification documents be submitted to the Financial Aid Office within three weeks of the College’s notification of selection. The official submission deadline for Pell grants, regulated by the U.S. Department of Education, will be followed at STLCOP and can be located in the *Federal Register*. No federal, state and Institutional aid will be disbursed until all required verification submissions are received by the Financial Aid Office.
Applicant Correction & Notification Procedures

The Financial Aid Office will electronically submit to the Central Processor corrections to the FAFSA data resulting from verification. The Central Processor will then send an SAR Information Acknowledgment to the applicant as notification of these corrections. Applicants will also be notified of award changes resulting from verification by the receipt of an updated award notification from the Financial Aid Office.

Verification Items

Students are classified by the U.S. Department of Education into five verification groups. Items verified are directed by this classification. All Health Professions Loan recipients not selected for verification will be subject to the V1 Standard Verification Group classification.

V1 – Standard Verification Group

<table>
<thead>
<tr>
<th>Data Element</th>
<th>Student</th>
<th>Parent/Spouse</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dependency Status</strong></td>
<td>Undergraduate</td>
<td>Yes</td>
<td>N/A</td>
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<tr>
<td>Household Size</td>
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<td>Yes</td>
<td>Dependent Verification Worksheet</td>
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<tr>
<td>Number in College*</td>
<td>Yes</td>
<td>Yes</td>
<td>Dependent Verification Worksheet</td>
</tr>
<tr>
<td>Child Support Paid</td>
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<td>Yes</td>
<td>Dependent Verification Worksheet</td>
</tr>
<tr>
<td>SNAP Benefits</td>
<td>Yes</td>
<td>Yes</td>
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<td>Adjusted Gross Income</td>
<td>Yes</td>
<td>Yes</td>
<td>IRS Data Retrieval/Tax Return Transcript</td>
</tr>
<tr>
<td>Income Tax Paid</td>
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<td>Yes</td>
<td>IRS Data Retrieval/Tax Return Transcript</td>
</tr>
<tr>
<td>Other Untaxed Income</td>
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<td>Yes</td>
<td>IRS Data Retrieval/Tax Return Transcript</td>
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<tr>
<td>Education Tax Credits</td>
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<tr>
<td>IRA and KEOGH/SEP Deductions</td>
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<tr>
<td>*Parents in College are not included</td>
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Graduate

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<tr>
<td>Child Support Paid</td>
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<td>Dependent Verification Worksheet</td>
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<tr>
<td>SNAP Benefits</td>
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<td>Adjusted Gross Income</td>
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<td>IRS Data Retrieval/Tax Return Transcript</td>
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<tr>
<td>Other Untaxed Income</td>
<td>Education Tax Credits</td>
<td>IRA and KEOGH/SEP Deductions</td>
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<table>
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<th>Transcript</th>
<th>IRS Data Retrieval/Tax Return Transcript</th>
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<tbody>
<tr>
<td>Yes</td>
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</tbody>
</table>

V2 – SNAP Verification Group
A statement signed by applicant or by one parent if student is dependent, affirming SNAP benefits were received by someone in the household during the 2011 and/or 2012 calendar years must be submitted. Acceptable proof of SNAP benefits include:

- A document showing the student’s/family’s receipt of food stamps sometime in the last two years (the amount is not necessary).
- An online balance statement that recipients with cards may obtain.
- A copy of their benefit card if the card lists the recipient’s name (please copy both sides of the card). One of the previously stated items is required if the benefit card does not list the recipient’s name.

V3 – Child Support Paid Verification Group
Provide a signed statement detailing the following:

- Amount of child support paid
- Name of person who paid child support
- Name of person to whom child support was paid
- Names of the children for whom child support was paid

V4 – Custom Verification Group

- High School completion status
- Identity/Statement of Educational Purpose
- SNAP
- Child Support Paid

V5 – Aggregate Verification Group

- High School Completion status
- Identity/Statement of Educational Purpose
- All items listed in the V1 group

Individuals reporting income, but not required to file a Federal tax return must submit copies of all Federal W-2s received the previous tax year.
Overpayments, fraud and abuse

The STLCOP Financial Aid Office will report to the Office of Inspector General all instances of suspected fraud where a financial aid applicant, employee or other individual has misreported information and/or altered documentation for the purpose of increasing aid eligibility or fraudulently obtaining federal aid funds.

Professional Judgment

The Financial Aid Office may make exceptions to the above guidelines for unusual/extenuating circumstance of the student and/or parent. Professional Judgment applications are available in the Financial Aid Office. Professional judgment cannot be used to waive general student eligibility requirements or to circumvent the intent of the law or regulations.

Curricula

St. Louis College of Pharmacy is committed to excellence in the academic programs we offer our students to prepare for a career in pharmacy. As of Fall 2014, all freshmen will enroll in the new 7-year Doctor of Pharmacy curriculum that contains integrated Bachelor of Science degrees. The 6-year Doctor of Pharmacy curriculum originally implemented in Fall 2000 will be phased-out with the last cohort of students graduating from the program in Spring 2019.

7-Year Doctor of Pharmacy with integrated Bachelor of Science Degrees

The 7-year Doctor of Pharmacy (Pharm.D.) curriculum implemented in Fall 2014 consists of a 3-year pre-professional program followed by a 4-year professional program. The Bachelor of Science (BS) in Health Sciences consists of 123 semester hours of study, and the Bachelor of Science (BS) in Health Humanities consists of 122 semester hours of study. Across the entire seven years of study, a minimum total of 238 or 239 semester hours must be completed to earn the Pharm.D. degree with its integrated BS degree. To afford students the ability to tailor a program of study most closely matching their interests and goals, students select which BS degree option they wish to pursue along the way to attaining the Pharm.D. degree. The selected BS degree is earned upon satisfactory completion of all BS degree requirements which typically occurs after four academic years of study.

In the 4-year professional program, students complete 130 hours of required coursework that includes 9 semester hours (300 contact hours) of introductory pharmacy practice experiences and 40 semester hours (1,600 contact hours) of advanced pharmacy practice experiences in which students extend their learning from the classroom to various pharmacy practice settings and have opportunities to provide care for diverse patient populations. Twelve semester hours of elective or selective coursework are also included. Students who wish to specialize in a specific area of pharmacy practice may select one of several possible elective track options. Coursework for professional year 1 overlaps with coursework required in the last year of the integrated BS degree programs so that students can earn both a BS degree and the Pharm.D. degree in 7 years.

The 7-year curriculum integrates liberal arts, sciences, and pharmacy education to develop graduates who are prepared to contribute directly to patient care at an entry-level working in collaboration with other healthcare providers. Graduates will also have the abilities for entry into post-graduate training programs.
Graduates will be able to think critically, solve complex problems, and communicate effectively to provide high-level, interprofessional patient and population care that is evidence-based, culturally sensitive and includes disease management and promotion of health and wellness. Graduates will also be able to manage medication use systems to optimize patient safety and system efficacy, advocate for the pharmacy profession and within their communities, apply quality improvement principles to advance the practice of pharmacy including practice models that are economically sustainable, and be consumers of and contributors to research and scholarly works.

Throughout the academic program, advising services and career support and information are available to help students select which integrated BS degree to pursue along with pursuit of professional coursework that is consistent with their interests, skills, and career aspirations. The following policies pertain to declaring and completing a BS degree program at St. Louis College of Pharmacy (STLCOP):

- Upon admission into the freshman year (or transfer admission into the sophomore year), students will declare their interest in one of the available integrated BS degree programs.

- By the end of the spring semester of the sophomore year, students will formally declare the integrated BS degree program they want to complete. Students who transfer directly into the junior year must formally declare upon admission, the integrated BS program they want to complete.

- Students may earn only one integrated BS degree at STLCOP. Students may, however, switch integrated BS degree programs if desired, but should understand that this may lengthen the time required to complete an integrated BS degree and/or Pharm.D. degree. Students who opt to switch integrated BS degree programs must have a written plan in place that is approved by their academic advisor before entry into professional year 1. The plan must articulate how the student will successfully complete all BS degree requirements before entry into professional year 2. A STLCOP integrated BS degree must be successfully completed for entry into professional year 2.1

- Students transferring into the sophomore or junior year must complete four (4) full-time semesters at STLCOP and complete all requirements of the BS degree to earn a BS degree from STLCOP. Transfer students entering professional year 1 are not normally eligible to earn a BS degree from STLCOP. In special cases, a student may seek permission from the Dean’s office to pursue a BS degree from STLCOP.

- Students may opt to pursue only a BS degree (and not the Pharm.D. degree) at any time, but this decision is normally final, i.e. students may not opt back into the Pharm.D. program.2

- All current academic probation and dismissal policies will apply to the BS programs.

Footnotes:

1 This does not apply to students transferring into professional year 1 who normally will not meet residency requirements to earn a BS degree from STLCOP.

2 An appeal process is available to address any special circumstances that may arise.

Students will select one of the following integrated BS degree/Pharm.D. degree options:
## St. Louis College of Pharmacy Curricula

### B.S. Health Sciences/Pharm.D. Degree

#### FRESHMAN

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BIOL 1111:</strong> Biology I (lab)</td>
<td>4</td>
</tr>
<tr>
<td><strong>CHEM 1111:</strong> Chemical Structure &amp; Physical Properties (lab)*</td>
<td>4</td>
</tr>
<tr>
<td>[*students with AP credit for Chemistry will enroll in CHEM1231: Organic Chemistry I]</td>
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<tr>
<td><strong>WRIT 1101:</strong> The Effective Writer</td>
<td>3</td>
</tr>
<tr>
<td><strong>MATH 1100:</strong> Pre-Calculus for Health Professionals OR <strong>MATH 1110:</strong> Applied Calculus for Health Professionals OR <strong>MATH 1120:</strong> Statistics for the Health Sciences</td>
<td>3</td>
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<tr>
<td><strong>SEMR 1100:</strong> Foundations of Learning</td>
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#### SOPHOMORE

<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Semester 4</th>
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<tbody>
<tr>
<td><strong>BIOL 2220:</strong> Human Anatomy (lab)</td>
<td>4</td>
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<tr>
<td><strong>CHEM 2213:</strong> Organic Chemistry w/ Biological Emphasis (lab)</td>
<td>4</td>
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<tr>
<td><strong>HIST 2201:</strong> Global Heritage I</td>
<td>3</td>
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<tr>
<td><strong>MATH 1120:</strong> Statistics for the Health Sciences OR <strong>SOCI 2210:</strong> Principles of Sociology OR <strong>PSYC 2210:</strong> Principles of Psychology</td>
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<td><strong>Total Semester Hours</strong></td>
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#### JUNIOR

<table>
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<tr>
<th>Semester 5</th>
<th>Semester 6</th>
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<tr>
<td><strong>BIOL 3240:</strong> Microbiology (lab) OR <strong>CHEM 3320:</strong> Biochemistry</td>
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<tr>
<td><strong>PHYS 3211:</strong> Physics I (lab)</td>
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<tr>
<td><strong>HIST 3303:</strong> Global Heritage III (Selective)</td>
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<td><strong>ECON 3300:</strong> Microeconomics with Healthcare Emphasis OR <strong>COMM 3300:</strong> Healthcare Communication</td>
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#### PROFESSIONAL YEAR 1

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<thead>
<tr>
<th>Semester 7</th>
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<tr>
<td><strong>PHSC 4401:</strong> Principles of Drug Action*</td>
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<tr>
<td><strong>PHRC 4401:</strong> Pharmaceutics I* AND <strong>PHRC 4300:</strong> Pharmacy Calculations*</td>
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<td><strong>Biological/Physical/Health Science Elective OR OPEN</strong></td>
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<tr>
<td><strong>MGMT 4400:</strong> Public Health Fundamentals in Pharmacy* AND <strong>MGMT 4400:</strong> Public Health Fundamentals in Pharmacy* AND <strong>IPPE 4110:</strong> IPPE: Clinical Prevention &amp; Population Health*</td>
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<td>[*these two courses must be taken concurrently; students can opt to take these courses in the fall or spring semester]</td>
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<tr>
<td><strong>PHIM 4312:</strong> Information Mastery I: Evidence-Based Medicine &amp; Informatics** AND <strong>PHIM 4312:</strong> Information Mastery I: Evidence-Based Medicine &amp; Informatics**</td>
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<tr>
<td><strong>Biological/Physical/Health Science Elective OR OPEN</strong></td>
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<td><strong>Total Hours</strong></td>
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#### SUMMER

| **IPPE 5123:** Introductory Pharmacy Practice Experience: Safe Medication Practices-Community Pharmacy | 3 |
| **Total Hours** | 3 |
St. Louis College of Pharmacy Curricula  

PROFESSIONAL YEAR 2

<table>
<thead>
<tr>
<th>Semester 9</th>
<th>Semester 10</th>
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<tbody>
<tr>
<td>PHAR 5101: Integrated Pharmacotherapy: Cardiology&lt;sup&gt;î&lt;/sup&gt;</td>
<td>PHAR 5102: Integrated Pharmacotherapy: Endocrinology&lt;sup&gt;î&lt;/sup&gt;</td>
</tr>
<tr>
<td>PHAR 5111: Integrated Pharmacotherapy: Pulmonary&lt;sup&gt;î&lt;/sup&gt;</td>
<td>PHAR 5112: Integrated Pharmacotherapy: Nephrology&lt;sup&gt;î&lt;/sup&gt;</td>
</tr>
<tr>
<td>PHPR 5101: Pharmacy Practice Skills Lab II&lt;sup&gt;î&lt;/sup&gt;</td>
<td>PHPR 5102: Pharmacy Practice Skills Lab III&lt;sup&gt;î&lt;/sup&gt;</td>
</tr>
<tr>
<td>PHRC 5101: Biopharmaceutics &amp; Pharmacokinetics&lt;sup&gt;î&lt;/sup&gt; AND [students can opt to take any combination of the following courses in the fall or spring semester]</td>
<td>PHIM 5122: Information Mastery II: Biomedical Literature Evaluation&lt;sup&gt;î&lt;/sup&gt; AND [students can opt to take any combination of the following courses in the fall or spring semester]</td>
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<tr>
<td>MGMT 5110: Health System Management: Social Aspects&lt;sup&gt;î&lt;/sup&gt;</td>
<td>MGMT 5110: Health System Management: Social Aspects&lt;sup&gt;î&lt;/sup&gt;</td>
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<tr>
<td>MGMT 5100: Health System Management: Financial &amp; Economic Aspects&lt;sup&gt;î&lt;/sup&gt;</td>
<td>MGMT 5100: Health System Management: Financial &amp; Economic Aspects&lt;sup&gt;î&lt;/sup&gt;</td>
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<td>Elective or Selective</td>
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<td>Total Semester Hours 14-18</td>
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SUMMER

<table>
<thead>
<tr>
<th>IPPE 6143: Introductory Pharmacy Practice Experience: Safe Medication Practices-Hospital Pharmacy</th>
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PROFESSIONAL YEAR 3

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<tr>
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<tr>
<td>PHAR 6101: Integrated Pharmacotherapy: Infectious Diseases&lt;sup&gt;î&lt;/sup&gt;</td>
<td>PHAR 6102: Integrated Pharmacotherapy: Neurology/Psychiatry&lt;sup&gt;î&lt;/sup&gt;</td>
</tr>
<tr>
<td>PHAR 6111: Integrated Pharmacotherapy: Critical Care&lt;sup&gt;î&lt;/sup&gt;</td>
<td>PHAR 6112: Integrated Pharmacotherapy: Rheumatology&lt;sup&gt;î&lt;/sup&gt;</td>
</tr>
<tr>
<td>PHAR 6121: Integrated Pharmacotherapy: Hematology/Oncology&lt;sup&gt;î&lt;/sup&gt;</td>
<td>PHAR 6122: Integrated Pharmacotherapy: Special Populations&lt;sup&gt;î&lt;/sup&gt;</td>
</tr>
<tr>
<td>PHAR 6131: Integrated Pharmacotherapy: GI/Liver&lt;sup&gt;î&lt;/sup&gt;</td>
<td>PHPR 6102: Pharmacy Practice Skills Lab IV&lt;sup&gt;î&lt;/sup&gt;</td>
</tr>
<tr>
<td>PHPR 6101: Pharmacy Practice Skills Lab IV&lt;sup&gt;î&lt;/sup&gt;</td>
<td>MGMT 6102: Pharmacy Law&lt;sup&gt;î&lt;/sup&gt;</td>
</tr>
<tr>
<td>PHIM 6131: Information Mastery III: Clinical Applications&lt;sup&gt;î&lt;/sup&gt;</td>
<td>IPPE 6152: IPPE: Interprofessional Patient Care*</td>
</tr>
<tr>
<td>IPPE 6151: IPPE: Interprofessional Patient Care* [course spans both semesters; credit awarded at the end of the spring semester]</td>
<td>IPPE 6152: IPPE: Interprofessional Patient Care* [course spans both semesters; credit awarded at the end of the spring semester]</td>
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<td>Elective</td>
<td>Integrated Capstone Selective</td>
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PROFESSIONAL YEAR 4

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<tr>
<td>APPE 7110: Advanced Pharmacy Practice Experience: Ambulatory Care</td>
<td>APPE 7140: Advanced Pharmacy Practice Experience: Health System Management</td>
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<tr>
<td>APPE 7120: Advanced Pharmacy Practice Experience: Acute Care/General Medicine</td>
<td>APPE 7150: Advanced Pharmacy Practice Experience: Patient Care Selective</td>
</tr>
<tr>
<td>APPE 7130: Advanced Pharmacy Practice Experience: Community Care</td>
<td>APPE 7160: Advanced Pharmacy Practice Experience: Elective I</td>
</tr>
<tr>
<td>APPE 7170: Advanced Pharmacy Practice Experience: Elective II</td>
<td>APPE 7170: Advanced Pharmacy Practice Experience: Elective II</td>
</tr>
<tr>
<td>Total Semester Hours 40</td>
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</table>

- This curriculum supersedes all previous curricula and must be completed by freshmen students entering St. Louis College of Pharmacy on or after the fall semester of 2014.
- The BS in Health Sciences degree is earned upon satisfactory completion of all BS degree requirements which typically occurs after four academic years of study. Requirements include:
  1. A minimum of 76 semester hours of biological, physical, and health science credits (at least 36 hours must be biological sciences)
  2. A minimum of 45 semester hours of 300- or 400-level courses (transfer hour equivalency will be determined on an individual basis)
  3. A cumulative GPA must be ≥ 2.0
  4. A total of 321 semester hours
  5. Completion of all STLCOP general education requirements including
    a. 2 semester hours of Foundations of Learning (or equivalent for transfer students)
    b. 3 semester hours of History (which includes 3 semester hours of elective)
    c. 3 semester hours of Literature
    d. 12 semester hours of Social Sciences (which includes 3 semester hours of elective)
    e. 6 semester hours of Mathematics
    f. 9 semester hours of Communication Arts
  6. A minimum of 12 hours of electives (which includes 3 semester hours of Literature; 3 semester hours of Social Science; 3 semester hours of biological, physical or health science; and 3 semester hours of a “free” elective—an elective taken toward the PharmD degree can also count toward the elective requirement for the BS)
  7. A minimum of 6 hours of electives (which includes 3 semester hours of History and 3 semester hours of Scientific or Professional Writing); at least 1 writing intensive course
- Students completing the pre-professional program at St. Louis College of Pharmacy must complete all prerequisites before entering the professional program.
- Students transferring directly into professional year 1 must have all prerequisites and at least an equal number of total credit hours as the curriculum listed for the pre-professional curriculum (ie, freshmen through junior year).
- Professional Program Requirements include:
  1. Prior to the start of the professional year 1, students must complete all health and background check requirements. A negative urine drug screening and criminal background check is required prior to each year in which experiential activity occurs. The College will perform the required background checks, after receiving student authorization, and transfer associated costs to student accounts.
  2. All students in professional years 1-4 must maintain a current Missouri pharmacy intern license throughout the introductory and advanced pharmacy practice experiences. Students completing an introductory or advanced pharmacy practice experience in Illinois must have an Illinois pharmacy technician license. Students completing experiences in other states are required to possess appropriate pharmacy licensure for that state.
  3. Students must hold a current adult Basic Life Support (BLS) certification throughout the introductory and advanced pharmacy practice experiences. Students completing an introductory or advanced pharmacy practice experience in Illinois must have an Illinois pharmacy technician license. Students completing experiences in other states are required to possess appropriate pharmacy licensure for that state.
  4. A professional GPA ≥ 2.0 is required before entering advanced pharmacy practice experiences in professional year 4.
  5. *Denotes required professional courses; a separate professional GPA is calculated for these courses.
  6. The professional program is four academic years. The Doctor of Pharmacy (Pharm.D.) degree is earned upon satisfactory completion of all Pharm.D. requirements. Requirements include:
    1. Satisfactory completion of all required coursework in professional year 1 through professional year 4 (130 semester hours) with all coursework being completed at STLCOP
    2. A minimum of 12 semester hours of electives and/or selects one of which must be a professional writing emphasis elective
    3. Completion of Professional Enrichment requirements
    4. A cumulative GPA ≥ 2.0
    5. A grade of C or better in each advanced pharmacy practice experience
### FRESHMAN

<table>
<thead>
<tr>
<th>Semester 1</th>
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<tbody>
<tr>
<td>BIOL 1111:</td>
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<tr>
<td>CHEM 1111:</td>
<td>CHEM 1212:</td>
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<tr>
<td>WRIT 1101:</td>
<td>WRIT 1102:</td>
</tr>
<tr>
<td>MATH 1100:</td>
<td>MATH 1110:</td>
</tr>
<tr>
<td>MATH 1110:</td>
<td>MATH 1120:</td>
</tr>
<tr>
<td>MATH 1120:</td>
<td>PHAR 1102:</td>
</tr>
<tr>
<td>SEMR 1100:</td>
<td><em>transfer students must take</em></td>
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### SOPHOMORE

<table>
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<td>BIOL 2231:</td>
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<td>CHEM 2213:</td>
<td>CHEM 2314:</td>
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<tr>
<td>HIST 2201:</td>
<td>Quantitative Analysis (lab)</td>
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<td>MATH 1120:</td>
<td>HIST 2202:</td>
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<tr>
<td>SOCI 2210:</td>
<td>SOCI 2210:</td>
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<td>PSYC 2210:</td>
<td>PSYC 2210:</td>
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<td>Literature or Social Science Elective</td>
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### JUNIOR

<table>
<thead>
<tr>
<th>Semester 5</th>
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<tr>
<td>BIOL 3240:</td>
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<td>CHEM 3320:</td>
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<td>PHYS 3200:</td>
<td>ECON 3300:</td>
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<td>HIST 3303:</td>
<td>COMM 3300:</td>
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<td>ECON 3300:</td>
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<tr>
<td>COMM 3300:</td>
<td>Health Humanities Selective (Option 2)*</td>
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### PROFESSIONAL YEAR 1

<table>
<thead>
<tr>
<th>Semester 7</th>
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<tbody>
<tr>
<td>PHSC 4401:</td>
<td>PHAR 4102:</td>
</tr>
<tr>
<td>PHRC 4401:</td>
<td>Introduction to Patient Care</td>
</tr>
<tr>
<td>PHRC 4300:</td>
<td>(Wellness, Self-Care &amp; Dermatology)*</td>
</tr>
<tr>
<td>BIOL 4350:</td>
<td>PHPR 4102:</td>
</tr>
<tr>
<td>BIOL 4432:</td>
<td>Pharmacy Practice Skills Lab I*</td>
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<tr>
<td>MGMT 4400:</td>
<td>PHRC 4402:</td>
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<tr>
<td>IPPE 4110:</td>
<td>Pharmacuetics II*</td>
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<td>PHIM 4312:</td>
<td>MGMT 4400:</td>
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<tr>
<td>BIOL 4360:</td>
<td>Public Health Fundamentals in Pharmacy** &amp; AND</td>
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<td>IPPE 4110:</td>
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<tr>
<td>16</td>
<td>IPPE: Clinical Prevention &amp; Population Health*</td>
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<tr>
<td><strong>[these two courses must be taken concurrently; students can opt to take these courses in the fall or spring semester] OR</strong></td>
<td><strong>[these two courses must be taken concurrently; students can opt to take these courses in the fall or spring semester] OR</strong></td>
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### SUMMER

| IPPE 5123: | Introductory Pharmacy Practice Experience: Safe Medication Practices-Community Pharmacy |
| **Total Hours** | 3 |
| **Total Hours** | 3 |
### PROFESSIONAL YEAR 2

<table>
<thead>
<tr>
<th>Semester 9</th>
<th>Semester 10</th>
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<tbody>
<tr>
<td><strong>PHAR 5101:</strong> Integrated Pharmacotherapy: Cardiology^</td>
<td><strong>PHAR 5102:</strong> Integrated Pharmacotherapy: Endocrinology^</td>
</tr>
<tr>
<td><strong>PHAR 5111:</strong> Integrated Pharmacotherapy: Pulmonary^</td>
<td>3</td>
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<tr>
<td><strong>PHPR 5101:</strong> Pharmacy Practice Skills Lab II^</td>
<td><strong>PHAR 5112:</strong> Integrated Pharmacotherapy: Nephrology^</td>
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<tr>
<td><strong>PHRC 5101:</strong> Biopharmaceutics &amp; Pharmacokinetics^</td>
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<tr>
<td>AND</td>
<td><strong>PHPR 5102:</strong> Pharmacy Practice Skills Lab III^</td>
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<td><strong>MGMT 5110:</strong> Health System Management: Social Aspects^</td>
<td><strong>MGMT 5110:</strong> Health System Management: Social Aspects^</td>
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<tr>
<td><strong>MGMT 5100:</strong> Health System Management: Financial &amp; Economic Aspects^</td>
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<td>4</td>
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<td><strong>IPPE 5130:</strong> IPPE: Foundations of Clinical Practice</td>
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#### SUMMER

| IPPE 6143: Introductory Pharmacy Practice Experience: Safe Medication Practices-Hospital Pharmacy | 3 |
| **Total Hours** | 3 |

### PROFESSIONAL YEAR 3

<table>
<thead>
<tr>
<th>Semester 11</th>
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<tr>
<td><strong>PHAR 6101:</strong> Integrated Pharmacotherapy: Infectious Diseases^</td>
<td><strong>PHAR 6102:</strong> Integrated Pharmacotherapy: Neurology/Psychiatry^</td>
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<tr>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td><strong>PHAR 6111:</strong> Integrated Pharmacotherapy: Critical Care^</td>
<td><strong>PHAR 6112:</strong> Integrated Pharmacotherapy: Rheumatology^</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td><strong>PHAR 6121:</strong> Integrated Pharmacotherapy: Hematology/Oncology^</td>
<td><strong>PHAR 6122:</strong> Integrated Pharmacotherapy: Special Populations^</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
</tr>
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<td><strong>PHPR 6101:</strong> Pharmacy Practice Skills Lab IV^</td>
<td><strong>PHPR 6102:</strong> Pharmacy Practice Skills Lab V^</td>
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<td>1</td>
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<tr>
<td><strong>PHIM 6131:</strong> Information Mastery III: Clinical Applications^</td>
<td><strong>MGMT 6102:</strong> Pharmacy Law^</td>
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<td>2</td>
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<tr>
<td><strong>IPPE 6151:</strong> IPPE: Interprofessional Patient Care*</td>
<td><strong>IPPE 6152:</strong> IPPE: Interprofessional Patient Care*</td>
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### PROFESSIONAL YEAR 4

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<tr>
<th>Semesters 13 &amp; 14</th>
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<tbody>
<tr>
<td><strong>APPE 7110:</strong> Advanced Pharmacy Practice Experience: Ambulatory Care</td>
<td><strong>APPE 7140:</strong> Advanced Pharmacy Practice Experience: Health System Management</td>
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<td>5</td>
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<tr>
<td><strong>APPE 7120:</strong> Advanced Pharmacy Practice Experience: Acute Care/General Medicine</td>
<td><strong>APPE 7150:</strong> Advanced Pharmacy Practice Experience: Patient Care Selective</td>
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<td>5</td>
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<tr>
<td><strong>APPE 7130:</strong> Advanced Pharmacy Practice Experience: Community Care</td>
<td><strong>APPE 7160:</strong> Advanced Pharmacy Practice Experience: Elective I</td>
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<td>5</td>
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<tr>
<td><strong>APPE 7170:</strong> Advanced Pharmacy Practice Experience: Elective II</td>
<td><strong>APPE 7180:</strong> Advanced Pharmacy Practice Experience: Elective III</td>
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<td>40</td>
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*This curriculum supersedes all previous curricula and must be completed by freshmen students entering St. Louis College of Pharmacy on or after the fall semester of 2014. The BS in Health Humanities degree is earned upon satisfactory completion of all BS degree requirements which typically occurs after four academic years of study. Requirements include:*

1. A minimum of 69 semester hours of biological, physical, and health science credits (at least 36 hours must be biological sciences)
2. A minimum of 45 semester hours of 300- or 400-level courses (transfer hour equivalency must be 36 hours must be biological sciences)
3. A cumulative GPA must be ≥ 2.0
4. A total of ≥ 122 semester hours
5. Completion of all STLCOP general education requirements including:
   a. 2 semester hours of Foundations of Learning (or equivalent for transfer students)
   b. 9 semester hours of History (which includes 3 semester hours of selective)
   c. 3 semester hours of Literature
   d. 12 semester hours of Social Sciences (which includes 3 semester hours of elective)
   e. 6 semester hours of Mathematics
   f. 9 semester hours of Communication Arts
6. A minimum of 9 hours of electives (which includes 3 semester hours of Literature; 3 semester hours of Social Science; and 3 semester hours of a "free" elective)
7. A minimum of 12 semester hours of electives (which includes 3 semester hours of History; 6 semester hours of Health Humanities, and 3 semester hours of Scientific or Professional Writing); at least 1 writing intensive course
8. Students completing the pre-professional program at St. Louis College of Pharmacy must complete all prerequisites for entry into the professional program. Students transferring directly into professional year 1 must have all prerequisites and at least an equal number of total credit hours as the curriculum listed for the pre-professional curriculum (ie, freshmen through junior year).

*Professional Program Requirements include:*

1. Prior to the start of the professional year 1, students must complete all health and background check requirements. A negative urine drug screening and criminal background check is required prior to each year in which experiential activity occurs. The College will perform the required background checks, after receiving student authorization, and transfer associated costs to student accounts.
2. All students in professional years 1-4 must maintain a current Missouri pharmacy intern license throughout the introductory and advanced pharmacy practice experiences. Students completing an introductory or advanced pharmacy practice experience in Illinois must have an Illinois pharmacy technician license. Students completing experiences in other states are required to possess appropriate pharmacy licensure for that state.
3. Students must hold a current adult Basic Life Support (BLS) certification throughout the introductory and advanced pharmacy practice experiences. Students completing the required background checks, after receiving student authorization, and transfer associated costs to student accounts.
4. A professional GPA ≥ 2.0 is required before entering advanced pharmacy practice experiences in professional year 4.

*Denotes required professional courses; a separate professional GPA is calculated for these courses. The professional program is four academic years. The Doctor of Pharmacy (Pharm.D.) degree is earned upon satisfactory completion of all Pharm.D. requirements. Requirements include:*

1. Satisfactory completion of all required coursework in professional year 1 through professional year 4 (130 semester hours) with all coursework being completed at STLCOP
2. A minimum of 12 semester hours of electives and/or selective one of which must be a professional writing course elective
3. Completion of Professional Enrichment requirements
4. A cumulative GPA ≥ 2.0
5. A grade of C or better in each advanced pharmacy practice experience
St. Louis College of Pharmacy 6-Year Curricula

St. Louis College of Pharmacy is committed to excellence in the academic program we offer our students to prepare for a career in pharmacy. The Doctor of Pharmacy (Pharm. D.) curriculum is a six-year professional program, which consists of 208 semester hours of study — 155 hours of required coursework, 21 hours of elective coursework, and 32 hours of advanced practice experiences during the sixth year. Coursework in the third, fourth, and fifth year includes introductory practice experiences that expose students to various practice settings and teach the basic skills of pharmaceutical care. Throughout the program, career information is available to help students choose a professional practice setting or scientific career in pharmacy that is consistent with their interests and skills.

Extensive studies in biological and physical sciences provide the foundation for learning and understanding the pharmaceutical and clinical sciences, which are central to learning and understanding the properties of drugs and their medicinal effects. The curriculum also integrates the arts and sciences. As students learn to appreciate the complexity of the world around them, they develop an appreciation for self, life, and culture, as well as empathy and compassion for the needs of others. The combination of a liberal arts education with a pharmacy education helps our students develop communication, decision-making, and critical thinking skills while learning how to practice pharmacy.

The College curriculum focuses on preparing students to provide pharmaceutical care in any practice setting. The term “pharmaceutical care” refers to a pharmacist’s responsibilities to the patient for positive drug therapy outcomes. This standard of practice involves the prevention, identification, and resolution of drug-related problems such as untreated indications or diseases; drug use without an indication; improper drug selection; sub-therapeutic dosages or overdose; failure to receive drugs in a timely manner; and adverse drug interactions and drug reactions.

The Pharm.D. curriculum places a strong emphasis on therapeutic topics and offers students introductory and advanced practice experiences in a variety of practice settings. During the advanced practice experiences, students will complete rotations in community and health system pharmacy practice, as well as one ambulatory care rotation, one general medicine rotation, a patient care selective, and two elective rotations.

In addition, fourth-, fifth-, and sixth-year students who demonstrate a strong interest in science research can apply for 10- to 14-week summer fellowships in many of the laboratories at Washington University School of Medicine. Students can extend their appointment beyond the summer with consent of the College and the specific laboratory’s principal investigator.

The College offers more than 70 elective courses in more than 20 disciplines, although elective offerings change each year to provide students with a variety of options. Pharm.D. graduates must complete a minimum of 12 semester hours of liberal arts electives. Three or more semester hours of the liberal arts electives must involve the study of literature and three must be American politics, state policy and politics, or economics. Electives meeting the liberal arts requirement have a course number with a second digit of 2, 3, 4, or 5.

Pharm.D. graduates are required to have a minimum of nine semester hours of other electives, and those electives must include two “writing emphasis” courses, at least one of which is a professional writing emphasis elective. Writing emphasis electives require a minimum of 20 pages (more than 5,000 words) of writing involving at least three separate papers, two of which are to be revised after review by the course instructor and perhaps peers as well. The writing emphasis course is an instructional tool often employed to promote higher order thinking skills, enabling the student to better master course content. Courses meeting the professional elective requirements have a course number with a second digit of 7.

Prior to the start of the experiential curriculum in year three, students must complete all health and background check requirements. Each student must provide proof of MMR immunizations/immunity, varicella immunity, and Hepatitis B immunizations and complete an annual PPD test. A negative urine drug screening and criminal background check is required prior to each year in which experiential activity occurs. The College will perform the required background checks, after receiving student authorization, and transfer associated costs to student accounts.

All students in years three through six must maintain a current Missouri pharmacy intern license throughout the introductory and advanced practice experiences. Students completing an introductory or advanced practice experience in Illinois must have an Illinois pharmacy technician license. Students completing experiences in other states are required to possess appropriate pharmacy licensure for that state.

Students must hold a current adult CPR (cardiopulmonary resuscitation) certification prior to beginning any of their advanced practice experiences. Certification classes are periodically held on campus, but students can complete a certification program anywhere and submit proof of certification to the Office of Experiential Programs prior to the start of their advanced practice experiences in year six.
<table>
<thead>
<tr>
<th>Year 1</th>
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<tbody>
<tr>
<td><strong>Semester 1</strong></td>
</tr>
<tr>
<td>EN 1001: Composition</td>
</tr>
<tr>
<td>CH 1001: General Chemistry (lab)</td>
</tr>
<tr>
<td>SS 1100: STLCOP Orientation</td>
</tr>
<tr>
<td>MA 1100: Calculus/Pre-Calculus</td>
</tr>
<tr>
<td>BI 1100: Biology (lab)</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
</tr>
</tbody>
</table>

**Semester 2**

| EN 1022: Critical Thinking and Writing | 3 |
| CH 1002: General and Analytical Chemistry (lab) | 4 |
| MA 1100: Calculus/Elective | 3 |
| AP 2110: Human Anatomy (lab) | 4 |
| SS 1100: Sociology | 3 |
| **Total Semester Hours** | 17 |

<table>
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<tr>
<th>Year 2</th>
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<tbody>
<tr>
<td><strong>Semester 3</strong></td>
</tr>
<tr>
<td>CH 2001: Organic Chemistry I (lab)</td>
</tr>
<tr>
<td>AP 2110: Human Anatomy (lab)</td>
</tr>
<tr>
<td>HU 2001: Cultural Heritage I</td>
</tr>
<tr>
<td>PY 2100: Intro to Pharmacy Practice (lab)* OR</td>
</tr>
<tr>
<td>Psychology/Sociology</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
</tr>
</tbody>
</table>

**Semester 4**

| CH 2002: Organic Chemistry II (lab) | 4 |
| AP 2100: Physiology (lab) | 4 |
| HU 2002: Cultural Heritage II | 3 |
| PP 2110: Introduction to Pharmacy Practice (lab)* OR | 2 |
| Psychology/Sociology | 3 |
| **Total Semester Hours** | 16-17 |

<table>
<thead>
<tr>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semester 5</strong></td>
</tr>
<tr>
<td>AP 3100: Advanced Physiology with Clinical Correlates (lab)*</td>
</tr>
<tr>
<td>CH 3100: Biochemistry OR</td>
</tr>
<tr>
<td>MI 3100: Microbiology (lab)*</td>
</tr>
<tr>
<td>EN 3100: Professional Communication OR</td>
</tr>
<tr>
<td>Elective</td>
</tr>
<tr>
<td>PP 3150: Introductory Pharmacy Practice Experience: Foundations of Pharmacy Practice OR</td>
</tr>
<tr>
<td>ELECTIVE</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
</tr>
</tbody>
</table>

**Semester 6**

| PP 3110: Pathophysiology* | 5 |
| PH 3100: Pharmacetics (lab)* | 5 |
| CH 3100: Biochemistry* OR | 4 |
| MI 3100: Microbiology (lab)* | 3 |
| EN 3100: Professional Communication* OR | 3 |
| Elective | 3 |
| PP 3150: Introductory Pharmacy Practice Experience: Foundations of Pharmacy Practice | 1 |
| ELECTIVE | 3 |
| **Total Semester Hours** | 17-18 |

**Summer**

<p>| PP 4140: Introductory Pharmacy Practice Experience: Safe Medication Practices-Community Pharmacy | 3 |
| <strong>Total Hours</strong> | 3 |</p>
<table>
<thead>
<tr>
<th>Semester 7</th>
<th>Semester 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH 4100: Therapeutics I*</td>
<td>TH 4120: Therapeutics II*</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>CH 4100: Pharmacodynamics and Drug Action: Molecular Mechanisms I*</td>
<td>CH 4120: Pharmacodynamics and Drug Action: Molecular Mechanisms II*</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>PC 4100: Pharmacodynamics and Drug Action: Pharmacology I*</td>
<td>PC 4120: Pharmacodynamics and Drug Action: Pharmacology II*</td>
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<td>4</td>
</tr>
<tr>
<td>BI 4100: Molecular Biology*</td>
<td>PH 4110: Pharmacokinetics*</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>PH 4100: Biopharmaceutics*</td>
<td>PP 4170: Introductory Pharmacy Practice Experience: Clinical Prevention and Population Health**</td>
</tr>
<tr>
<td>2</td>
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</tr>
<tr>
<td>PP 4170: Introductory Pharmacy Practice Experience: Clinical Prevention and Population Health**</td>
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<td><strong>Total Semester Hours</strong></td>
<td><strong>Total Semester Hours</strong></td>
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<tr>
<td><strong>16</strong></td>
<td><strong>17</strong></td>
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</table>

**SUMMER**

PP 5155: Introductory Pharmacy Practice Experience: Safe Medication Practices-Hospital Pharmacy | 3
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**Total Hours** | 3
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<table>
<thead>
<tr>
<th>Semester 9</th>
<th>Semester 10</th>
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<tbody>
<tr>
<td>TH 5100: Therapeutics III*</td>
<td>TH 5120: Therapeutics IV*</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>PP 5160: Disease State Management I: Clinical Epidemiology*</td>
<td>PP 5170: Disease State Management II: Evidence-Based Medicine*</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>PA 5130: Health Systems Management: Social Aspects* OR MA 5100: Biostatistics/Literature Evaluation* OR</td>
<td>PA 5130: Health Systems Management: Social Aspects* OR MA 5100: Biostatistics/Literature Evaluation* OR</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>PA 5140: Pharmacy Law &amp; Ethics*</td>
<td>PP 5156: Introductory Pharmacy Practice Experience: Interprofessional Patient Care**</td>
</tr>
<tr>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>PP 5156: Introductory Pharmacy Practice Experience: Interprofessional Patient Care**</td>
<td>Elective</td>
</tr>
<tr>
<td>0</td>
<td>3</td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
<td><strong>Total Semester Hours</strong></td>
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<tr>
<td>16-17</td>
<td>17-18</td>
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**Year 6**

<table>
<thead>
<tr>
<th>Semesters 11 and 12</th>
<th>PP 6165: Advanced Pharmacy Practice Experience: Acute Care/General Medicine</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP 6115: Advanced Pharmacy Practice Experience: Ambulatory Care</td>
<td>4</td>
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<tr>
<td>PP 6125: Advanced Pharmacy Practice Experience: Community Care</td>
<td>PP 6161: Advanced Pharmacy Practice Experience: Patient Care Selective</td>
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<tr>
<td>4</td>
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<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>PP 6198: Advanced Pharmacy Practice Experience: Elective III</td>
<td>PP 6109: Pharmacy Practice Seminar</td>
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<tr>
<td>PP 6109: Pharmacy Practice Seminar</td>
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<td><strong>Total Semester Hours</strong></td>
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<tr>
<td>33</td>
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</tbody>
</table>

*Required professional courses; a separate professional GPA is calculated for these courses.

**Must complete both semesters to earn 1 credit hour**

- This curriculum supersedes all previous curricula and must be completed by first-year students entering St. Louis College of Pharmacy on or after the fall semester of 2000.
- Certification in adult CPR and passing the pharmacy calculations proficiency exam are required prior to participation in advanced pharmacy practice experiences.
- Students are required to take a minimum of 12 semester hours of liberal arts electives, including three semester hours of literature and three semester hours of social studies in American politics, state policy and politics, or economics.
- Students are required to have a minimum of nine semester hours of other electives and those electives must include two writing emphasis courses, at least one which is a professional writing emphasis elective (writing emphasis courses are taken in years 3-5).
- This curriculum requires 33 semester hours of courses in the liberal arts.
Course Descriptions

Changes in Degree Requirements

The College reserves the right to make additions or changes, as necessary, to the professional curriculum to better meet accreditation guidelines or reflect continuous quality improvement. Students who remain in good academic standing will graduate under the curriculum in place at the time of their entry into the professional curriculum, with the exception that course topics, sequences or credit hours may be modified. However, the total credit hour requirement required for graduation will not change and no retroactive requirements for courses completed will be made. Students who do not remain in good academic standing, and who repeat courses or curricular segments may be behind a year or more, and if so will be considered as part of that subsequent entering class. As such they will be required to complete the curriculum in effect for that class.

Course Numbers for the 6-Year Doctor of Pharmacy Degree

Courses in the 6-year program are numbered with a two-letter prefix followed by a four-digit number. The first number indicates the program year in which the course is offered. Generally, students may NOT take a course numbered above their year level within the curriculum. The second number indicates the following: 0 and 1 are required courses; 2 literature; 3 fine arts; 4 history or philosophy; 5 social studies; 6 general electives; 7 and 8 professional electives. The two-letter prefix denotes the discipline area of the course. The 6-year Pharm.D. program implemented in fall 2000 that will be phased-out with the last cohort of students graduating from the program in spring 2019.

Course Numbers for the 7-Year Doctor of Pharmacy with integrated Bachelor of Science Degrees

Courses in the 7-year program are numbered with a four-letter prefix followed by a four-digit number. For all courses, the first number indicates the program year in which the course is offered. Generally, students may NOT take a course numbered above their year level within the curriculum.

For all courses, the first number indicates the program year in which the course is offered. Generally, students may NOT take a course numbered above their year level within the curriculum.

For courses in the professional program, the second number indicates whether the course is required (1) or elective/selective (2). The third digit represents whether the course is part of a sequence and if so, where it occurs in the sequence as follows: 0 = not in a sequence, 1 = first course in the sequence, 2 = second course in the sequence, 3 = third course in the sequence, 4 = fourth course in the sequence, etc. The fourth number indicates which semester the course is taken as follows: 0 = either fall or spring, 1 = fall, 2 = spring, and 3 = summer.
The four-letter prefix for each course number is as follows:
- BIOL = biology based courses such as anatomy and physiology
- CHEM = chemistry courses
- COMM = communication
- ECON = microeconomics
- HIST = history based humanities courses such as Global Heritage
- LITR = literature
- MATH = math courses such as calculus and statistics
- MGMT = management courses
- PHAR = interdisciplinary pharmacy courses
- PHIM = pharmacy information management courses
- PHPR = pharmacy practice courses
- PHRC = pharmaceutics courses
- PHSC = pharmaceutical sciences courses
- PHYS = physics
- PSYC = psychology
- SEMR = freshmen seminar (Foundations of Learning)
- SOCI = sociology
- WRIT = writing/English composition courses

APPROVED COURSES (listed in alphanumerical order)

A
**AP 2100 Physiology (4 Cr.)**
This course emphasizes basic cellular processes and current understandings of the cellular mechanisms of: cellular respiration, membrane transport, secretion, phagocytosis, electrical membrane potentials, contraction, membrane receptors, and second messenger systems. An overview is provided of cell-to-cell signaling; muscle contraction; synapses; neutral reflex arcs; general blood composition and functions; cardiovascular system and blood pressure regulation; respiratory system and bicarbonate ion buffer system; urine formation; general acid/base and fluid balance; and the digestive system. Three hours of lecture and one three-hour laboratory each week. (Prerequisites: AP 2110 and CH 1002)

**AP 2110 Human Anatomy (4 Cr.)**
Students use a systemic approach to learn details of human anatomy and medical terminology. At every organizational level, the relationship between structure and function is emphasized. The format combines more traditional lecture to provide students with the basic content and principles of human anatomy, with exercises that emphasize self-learning and problem-solving. A strong drawing component allows students to create illustrations of anatomical structure and/or pathways including labeling and description. The laboratory meets three hours/week and includes a combination of dissection (cat, mammalian, and cadaver organs) and examination of slides and models. Students will be encouraged to develop learning models and analogies to aid in their understanding of the material. (Prerequisite: BI 1100)
AP 2710 Histology (3 Cr.)
Histology is an advanced elective that deals with the subject of microscopic anatomy by emphasizing the relationship between the structures and functions of cells and tissues. Topics will include the specialization of cells and inter-cellular connections, the classification of histological categories, the microarchitecture of tissues within organs, and the functional and structural interrelationships of tissues. Professional elective. (Prerequisites: BI 1100; AP 2110; AP 2002 or the equivalent, with instructor approval)

AP 3100 Advanced Physiology with Clinical Correlates (5 Cr.)
This course draws upon specific cellular mechanisms presented in Physiology I to develop an understanding of the integration of functions and mutual dependence among the organ systems in preparation for understanding how disease states disrupt the functions of multiple organ systems. Emphasis placed upon the details of the endocrine system, autonomic nervous system (elaboration of what was presented in the previous course), inflammation, B and T cell functions, hypersensitivity reactions, immune surveillance, and autoimmunity, cardiac arrhythmias, integrated control of blood pressure, integrated acid/base balance, and fluid and electrolyte balance. The laboratory will develop skills by introducing lab techniques and values, signs and symptoms in disease, and preparation for mathematical and scientific reasoning. (Prerequisite: AP 2100)

AP 3600 Human Embryology (3 Cr.)
Many anatomical phenomena seem strange and illogical at first examination; however, the logic becomes clearer once the embryological development of such structures is understood. The focus of this course is to use a systemic approach to learn and understand some details of human embryology as it relates to anatomical structures. In the process of learning basic embryology, some information about abnormal development and birth defects will be introduced. (Prerequisites: BI 1100 and AP 2110, or permission of instructor)

B

BIOL 1111 Introductory Biology I (4 Cr.)
This course introduces students to the chemical and biological principles that are needed for a foundational understanding of biological pathways within cells, energy creation and utilization, gene expression, cell division, and development. In the laboratory portion of the course, students will be expected to demonstrate appropriate laboratory techniques and collaborative learning skills, to use knowledge and skills obtained through observation and experimentation to demonstrate an understanding of the scientific method, and to gather and analyze data. Format: lecture and laboratory (No prerequisites)

BIOL 1112 Introductory Biology II (4 cr.)
This course explores basic Mendelian genetics and its application to human genetics, the role of genetics in evolution and the mechanisms involved in natural selection. Evolution provides the conceptual basis for a study of the phylogenetic development of the biologic kingdoms in increasing order of complexity culminating with an in-depth discussion of animal form and function (emphasis on humans). Interactions between living organisms and the non-living environment and among living organisms provide a basis for discussing the impact of global changes on ecosystems
BIOL 2220 Human Anatomy (4 Cr.)

The focus of this course is to use a systemic approach to learn and understand the details of human anatomy and applied anatomical and medical terminology. At every organizational level, emphasis is made on the relationship between structure and function. Format: Lecture and Laboratory. (Prerequisites: Introduction to Biology I and II with a C- or better, or instructor approval.)

BIOL 2231 Human Physiology (4 Cr.)

This course emphasizes basic cellular processes and current understandings of the cellular mechanisms of: cellular respiration, membrane transport, maintenance of ion gradients, electrical membrane potentials, contraction, cell signaling; signal transduction, and second messenger systems. An overview is provided of cell-to-cell communication; general cytology, muscle contraction; synaptic transmission; neural reflex arcs; general endocrinology; general hematology; cardiovascular system; blood pressure regulation; respiratory system; urine formation; general acid/base balance; fluid and electrolyte balance; reproductive system; and the digestive system. (Prerequisites: BIOL 2220 and CHEM 1212)

BI 4100 Molecular Biology (2 Cr.)

This course introduces students to the principles of nucleic acid, carbohydrate, and protein chemistry and function as they apply to pharmacy. These include: nucleic acid, carbohydrate, and protein structure; the significance of molecular complementarity; DNA replication, repair, recombination; DNA manipulation and its application; RNA synthesis and processing; protein synthesis; targeting and turnover; enzymes, and regulation of gene expression in prokaryotes and eukaryotes. This course also introduces Genomics, Proteomics, Metabolomics, and Pharmacogenomics. Four hours of lecture each week taught over an eight-week period. (Prerequisite: AP 3100)

CHEM 1111 Chemical Structure & Physical Properties (CHEM 1) (4 Cr.)

This course is a reintroduction to the physical world that students live in through the eyes of a chemist. All matter is composed of atoms, and students begin their journey looking at the nature of atoms and their core composition and periodic properties. Matter is not just atoms, but combinations of atoms that form molecules. The nature of these combinations is explored through ways that electrons are shared to form bonds and the characteristic physical properties exhibited in molecules. Students will explore how and why atoms form bonds, the multiple ways that bonds are formed, the geometric patterns that atoms take when bonded, and the physical manifestations of these combinations. The interaction of atoms and molecules with electromagnetic radiation is a key physical property of matter, so students will explore multiple types of spectroscopy (photoelectron, ultraviolet, infrared and nuclear magnetic resonance) to elucidate atomic and molecular structure. Finally, since the same number and types of atoms can combine in multiple ways, students will be confronted with isomeric relationships, conformational relationships, and stereochemical relationships that result from atomic connectivity.
CHEM 1212 Chemical Structure & Reactivity (CHEM2) (4 Cr.)
This course is an introduction to the chemical reactivity, and the requirements that must be met for a chemical reaction to occur spontaneously. Students explore thermodynamic properties of enthalpy and entropy to explain why reactions occur and the free energy available from chemical reactions to do work. Kinetic processes are studied to explain how reactions occur through collisions and the factors affecting likelihood of a collision. Reaction mechanisms are introduced using acid-base theory to describe equilibrium reaction processes. This provides groundwork for discussing many biologically relevant reactions in terms of nucleophiles and electrophiles. Key chemical reaction categories will include substitution, elimination, electrophilic addition and substitution in $\pi$ systems (olefins and aromatic compounds), oxidation/reduction, and radical reactions. The formation and stability of reaction intermediates will also be used to explain stereochemical and regiochemical outcomes of reactions. (Prerequisite: CHEM 1111)

CHEM 2213 Organic Chemistry with a Biological Emphasis (CHEM3) (4 Cr.)
This course explores reactivity from the standpoint of biologically important compound classes that contain carbonyl groups: ketones, aldehydes, imines, carboxylic acids and their derivatives. Emphasis is placed on steric and electronic factors that affect direct reaction with these molecules. Metathesis reactions in the form of condensation reactions are critical to further understanding the kinetic and thermodynamic requirements for product formation. Since many pharmaceutically relevant molecules and biologically important macromolecules are composed of carboxylic acid derivatives, reactions leading to formation and decomposition of these functional groups are emphasized. Finally, students apply concepts of chemical reactivity to biologically important examples including: prodrugs, metabolism of drugs, glycolysis and receptor/enzyme activity. (Prerequisites: CHEM 1111 & CHEM 1212)

CH 2001 (also numbered as CHEM 1231) Organic Chemistry I (4 Cr.)
A study of the structural and chemical properties of the reactive groups common to pharmaceuticals. Spectroscopic and spectrophotometric approaches to defining drug structure, purity, and stereochemistry will be introduced. Reaction mechanisms characteristic of common reactive centers will be illustrated. Three class hours and three laboratory hours each week. (Prerequisite: CH 1002)

CH 2002 (also numbered as CHEM 1232) Organic Chemistry II (4 Cr.)
A continuation of CH 2001. Three class hours and three laboratory hours each week. (Prerequisite: CH 2001 or CHEM 1231)

CH 3100 Biochemistry (4 Cr.)
This course introduces students to the principles of biochemistry as they apply to pharmacy. These include: macromolecular structure and function, acid-base properties of biomolecules, enzyme kinetics, thermodynamics, and cellular metabolism. This course provides the background concepts, skills, and vocabulary necessary to link organic chemistry to medicinal chemistry. (Prerequisites: AP 2100, CH 2002, and PY 2100 or concurrent enrollment in PY 2100)
CH 4100 Pharmacodynamics and Drug Action: Molecular Mechanisms I (4 Cr.)

The primary emphasis of this course is the application of physico-chemical properties of drugs to drug therapy. In addition, this course emphasizes the application of molecular mechanisms to explain the side effects of drugs and how drugs function within the molecular pathology of the disease. Special attention is given to the extrapolation to possible new mechanisms for future drug therapy. The areas of specific application include, but are not limited to, the following: the autonomic nervous system, cardiovascular drugs, and anti-inflammatory drugs. (Prerequisites: CH 3100, MI 3100, and AP 3100)

CH 4120 Pharmacodynamics and Drug Action: Molecular Mechanisms II (3 Cr.)

This course is a continuation of Pharmacodynamics and Drug Action: Molecular Mechanisms I. The areas of specific application include, but are not limited to, the following: central nervous system drugs, hormones, antibiotics, and antiviral drugs. (Prerequisite: CH 4100)

D

E

EN 2200 Literary Genres: Drama (3 Cr.)

A genre study of the elements of drama in which students learn to interpret and appreciate plays. Students also are encouraged to use literature to come to a better understanding of themselves and of human values. The course involves lectures, discussion, play viewing, readings, and writing assignments. Liberal Arts elective. (Prerequisite: EN 1022)

EN 2210 Literary Genres: Fiction (3 Cr.)

A genre study of the elements of fiction in which students learn to interpret and appreciate novels and short stories. Students also are encouraged to use literature to come to a better understanding of themselves and of human values. The course includes lectures, discussion, readings, and writing assignments. Liberal Arts elective. (Prerequisite: EN 1022)

EN 2220 Literary Genres: Poetry (3 Cr.)

A genre study of the elements of poetry in which students learn to interpret and appreciate poems. Students also are encouraged to use literature to come to a better understanding of themselves and of human values. The course includes lectures, discussion, readings, and writing assignments. Liberal Arts elective. (Prerequisite: EN 1022)

EN 2230 Masterpieces in American Literature (3 Cr.)

A survey of representative American literary works from Puritan times to the present. Through lectures, discussion, and reading and writing assignments, students learn about the major trends and themes in American literature. Liberal Arts elective. (Prerequisite: EN 1022)
EN 2240 Masterpieces in British Literature (3 Cr.)
A survey of selected English literary masterpieces, including poetry, fiction, and plays. An emphasis on thematic considerations encourages students to explore human values and the human condition. The course includes lectures, discussion, readings, and writing assignments. Liberal Arts elective. (Prerequisite: EN 1022)

EN 2250 Masterpieces in World Literature (3 Cr.)
Selections of world literature other than American and British are analyzed to broaden the students’ understanding of other cultures and to promote a better understanding of themselves. Teaching methods include lectures, discussion, readings, and writing assignments. Liberal Arts elective. (Prerequisite: EN 1022)

EN 2300 Creative Writing (3 Cr.)
Creative Writing has a dual goal: Students learn about and can articulate aspects of the process of creative writing, and students also produce creative products. It is a multi-genre course designed to help students improve their creative writing skills in areas of interest to them. Liberal Arts elective. (Prerequisites: EN 1022 and any literature course)

EN 2310 The Craft of Fiction (3 Cr.)
This course provides specific instruction in writing fictional short stories and novels, enabling students to recognize effective use of the craft of fiction in the books they read and the films they view so that they may improve their use of fiction craft in their own writing. The course recognizes the value of multiple approaches to learning and delivers course content utilizing the four major ways students learn: reading/writing, hearing, visualizing and experiencing. Students will learn the art and craft of fiction by studying techniques used by successful authors, viewing the examples of successful films, practicing craft in focused exercises and critiquing the work of their peers. Liberal arts elective. (Prerequisite: EN 1001)

EN 2600 Professional Writing for Pharmacists (2 Cr.)
This course familiarizes students with the types of professional writing they may use in their careers, especially the résumé, the business letter, the memo, patient reports, news articles, and journal writing. The course seeks to improve general writing skills; students work together creating and revising. Two hours a week of lecture and workshop meetings. General elective. (Prerequisites: EN 1001 and EN 1022)

EN 3100 Professional Communication (3 Cr.)
This course covers the principles and practices of interpersonal communication and public speaking, with special emphasis on skills needed in the provision of pharmaceutical care including: gathering information from patients; instructing them on their medications and working to improve their compliance; and relating effectively to other health professionals. Teaching methods include lectures, discussions, and workshops.

FA 1301-1306 The Royal Chorale (0.5 Cr. per semester, a maximum of 3 Cr. may be
applied to degree requirements)
A performing and touring chorale. Fall semester, expect up to 2.5 hours of rehearsal per week. Spring
semester, expect about 1.5 hours of rehearsal per week. A number of performances (up to five) are given each
semester. (Prerequisites: Normally, the student will be expected to have previous group singing experience. An
audition might also be requested. Permission of director.)

FA 2310 Introduction to Art Appreciation (3 Cr.)
A survey of the visual arts from the ancient Greeks to the present, with primary emphasis on painting styles
and trends of the past 600 years. Using slides and videos, students with no prior background learn to recognize
art periods and artists though critical analysis and classroom participation, as well as to expand the scope of
their personal tastes. Liberal Arts elective.

FA 2320 Introduction to Music Appreciation (3 Cr.)
A chronological approach to both vocal and instrumental music beginning with the Greeks and moving
through the 20th century. Students learn about the major composers, but there is heavy emphasis on listening
as well as critical analysis to enable even the beginner to enjoy and appreciate fine music. Liberal Arts
elective.

FA 2330 Introduction to Theatre and Film (3 Cr.)
The course introduces students to the world of theatre: types of stages, works of playwrights, producers,
directors, actors, costume designers, scenery, and lighting. Students can act, direct, and/or design, if they wish.
Looks at origin and development of moving pictures and analyzes styles of notable actors, directors, and films.
Students see a live play, plays on video, and films for analysis, appreciation, and enjoyment. Teaching
methods include discussion, lecture, and activities. Liberal Arts elective.

G

H
HIST 2201 Global Heritage I (3 Cr.)
This course is an interdisciplinary history-based humanities course which uses a historical framework to
introduce students to the best that human beings have created, written, and achieved from the disparate
creation stories through the Age of Exploration with an emphasis on artistic, philosophical, and technological
achievements. This sequence of courses uses the humanities and history as vehicles for students to practice
and refine their critical thinking, writing, and global learning skills while enhancing their ability to become
global thinkers and citizens. (Prerequisites: WRIT 1101, WRIT 1102, or transfer equivalent)

HIST 2202 Global Heritage II (3 Cr.)
The next course in this interdisciplinary history-based humanities sequence expands upon the foundations,
key concepts, and abilities introduced in Global Heritage I. The scope of this course will span the later Middle
Ages through the Age of Revolutions, and will explore the consequences of key global events that have
informed the modern world. Core concepts explored in this course include the consequences of increased
inter-hemispheric interaction and the emergence of new perspectives, populations, and technology.  
(Prerequisite: HIST 2201)

HIST 3303 Global Heritage III (3 Cr.)  
This history-based humanities selective course represents the capstone course of this sequence, and ranges from the Age of Revolutions to 9/11 and the global war on terror. This course explores the developing relationships between nation-states, aspiring nationalists, transnational actors, overarching global forces and trends, and competing new worldviews regarding the shape and direction of an increasingly connected world.  
(Prerequisite: HIST 2202)

HU 2001 Cultural Heritage I (3 Cr.)  
An interdisciplinary course that integrates the insights of history, political science, sociology, literature, and the arts as a means of understanding civilization and culture in the Western world. Students see how Western culture interrelates with other cultures and gain an appreciation of global diversity. They also analyze the development of Western culture and reflect upon its possible future directions. This chronological/thematic study of Western culture and values includes issues such as family life, education, science, religion, and women’s roles. Writing and thinking skills are emphasized. (Prerequisite: EN 1022 or equivalent)

HU 2002 Cultural Heritage II (3 Cr.)  
(Prerequisite: HU 2001)

IR 2600 Elements of Photography (2 Cr.)  
Students receive an overall understanding of digital photography. The course’s subject matter will include: controlling the functions of a digital camera, composition, lighting, printing, and manipulation of electronic images. A history of photography will also be covered. General elective.

LITR 2210 Masterpieces in Children’s Literature (3 Cr.)  
This literature elective course focuses on the ways that literature reflects, informs, and shapes our understanding of childhood as a distinct stage of human experience. Students will read and write analyses of a wide range of classic and (selected) contemporary literary texts for children to develop critical insights into the real and imagined differences between children’s and adults’ sensibilities, needs, and imaginative experiences of nature and society. The course helps students to develop versatile tools for textual analysis and learn to
approach literature as a rich record of human consciousness and possibility. (Prerequisite: WRIT 1102 or equivalent)

**M**

**MATH 1100 Pre-calculus for Health Professionals (3 Cr.)**
This course will use graphical, numerical, and symbolic representations to investigate and apply the basic properties of linear, quadratic, polynomial, logarithmic, exponential, rational, and trigonometric functions. Students will also refresh the algebra skills necessary for success in calculus and other future courses. Format: Lecture and discussion

**MATH 1110 Applied Calculus for Health Professionals (3 Cr.)**
This course will cover the basic concepts of analytic geometry and calculus with a major emphasis on both differential and integral calculus and their applications to the health professions. Format: Lecture and discussion. (Prerequisites: MATH 1100 with a grade of C- or better, minimum score of 27 on the MACT, or instructor approval.)

**MATH 1120 Statistics for the Health Sciences (3 Cr.)**
The course introduces fundamental concepts and methods of statistics with emphasis on the application of statistical principles and methods to the assessment and interpretation of statistical evidence. It includes an introduction to descriptive statistics, basic probability theory, statistical estimation, hypothesis testing, and regression. Statistical analysis using a statistical software package is introduced. (Prerequisites: MATH 1100 with a grade of C- or better, a minimum score of 27 on the MACT, or instructor approval.)

**MA 5100 Biostatistics/Literature Evaluation (4 Cr.)**
A study of the basic statistical concepts and the practical application of statistical methods, including but not limited to: estimation, inference, hypothesis testing, analysis of variance, contingency tables, regression, correlation, and nonparametric methods. Applications to the pharmaceutical and medical literature will be emphasized, with appropriate published literature assigned, discussed, and critiqued.

**MI 3100 Microbiology (4 Cr.)**
History, classification, structure, function, physiology, and disease-causing properties of bacteria, viruses, protozoa, and special emphasis on host/microbe interactions and chemotherapeutic intervention in infectious disease. Lecture three hours and laboratory 1.5 hours twice each week. (Prerequisites: AP 2100 and CH 2002)
PA 1500 Leadership Skills (3 Cr.)
This elective is designed to develop students’ leadership skills. These skills are developed through self-assessment and group activities. The course is targeted toward pre-professional students who have an interest in preparing for leadership roles at the College. (Prerequisites: Enrollment is by application and invitation only.)

PA 2610 Crisis Communication: What to do when Disaster Strikes (3 Cr.)
An examination of the impact of communication on the recovery from crises from different vantage points with an emphasis on the health care community and the role that pharmacists play when disaster strikes. Outcomes are achieved through class discussion, case studies and reflection papers. (Prerequisite: second-year standing)

PA 2700 Sociology of Medicine (3 Cr.)
Issues in health care are examined, including practitioner-patient relationships, financing health care, the ethics of practice, and the trend to health promotion and disease prevention. The profession of pharmacy is analyzed from the view of a sociology of the professions. Professional elective.

PA 2720 Introduction to Computers and the Internet (3 Cr.)
Students expand their understanding of a microcomputer, graphical user interface, the College network, word processing, spreadsheets, graphical applications, e-mail, and the Internet in preparation for use in pharmacy practice settings. Professional elective. (Prerequisite: EN 1001 or equivalent computer experience as approved by the instructor)

PA 5120 Health Systems Management: Economic Aspects (4 Cr.)
Basic principles of financial and economic analysis are applied to the management of health systems with special emphasis given to community and hospital pharmacies. Topics include: financial analysis, inventory control, break-even analysis, cost allocations, reimbursement, health economics, health insurance, managed health care, and pharmacoconomics. Case studies are used to encourage active learning and critical thinking.

PA 5130 Health Systems Management: Social Aspects (3 Cr.)
An introduction to management, the health care system, and behavioral pharmacy. The managerial functions of planning, organizing, and influencing human behavior are explored using current behavioral science topics including motivation, leadership, group behavior, and performance evaluation. The health care system is
introduced in the context of these organizational behavior principles, with special emphasis on pharmacy’s unique roles (industry, managed care, patient behavior, government, and health care organizations). (Prerequisite: Fifth-year standing)

**PA 5140 Pharmacy Law and Ethics (3 Cr.)**
A study of the laws regulating the pharmaceutical industry and the individual practice of pharmacy with emphasis on legal principles as applied by pharmacists in their daily decision-making processes. Students will acquire an understanding of the laws, regulations, and ethical responsibilities applicable to pharmacists, so they will be able to protect the public and ensure patients’ well-being. (Prerequisite: Fifth-year standing)

**PC 3710 Medicinal Herbs and Phytopharmacy (2 Cr.)**
This course approaches topics on the most commonly used herbal drugs from a scientific viewpoint. The use of herbal drugs is studied according to disease state or folkloric use, and legitimate medical applications are distinguished from quackery. The course centers on the medicinal constituents of the herbs, which forms the basis for intensive studies of interactions between herbal drugs and prescription drugs, toxicities, and plant drugs as leads for new proprietary medicinals. Professional elective. (Prerequisite: AP 3100)

**PC 4100 Pharmacodynamics and Drug Action Pharmacology I (4 Cr.)**
A study of the principles relating to the pharmacological properties, sites and mechanisms of action, metabolism, uses and toxicity of therapeutically important drugs and diagnostic agents. General principles of drug action and toxicity are emphasized throughout the course, along with clinical considerations and application. Topics include: pharmacokinetics, the autonomic nervous system, cardiovascular agents, and analgesics. (Prerequisites: MI 3100, CH 3100, and AP 3100)

**PC 4120 Pharmacodynamics and Drug Action: Pharmacology II (4 Cr.)**
This course expands on principles developed in PC 4100. Topics include: hormones and steroids, diabetes, antihistamines and asthma, anemia, antibiotics, anti-infectives, antineoplastic agents, and herbal therapy. (Prerequisite: PC 4100)

**PE 2600 Fitness Testing and Conditioning (1 Cr.)**
The course provides the knowledge and skills to measure and assess one’s physical performance. Using this information, students develop a personalized fitness program. General elective. (Prerequisites: Good physical health and a signed waiver)

**PE 2610 Varsity Sports: Leadership Experience (1 Cr.)**
This course is designed to enhance the education and development of students through competitive sports involving the principles of sportsmanship, fair play, character development, honesty and integrity. Students participate in varsity sports will design and lead a team service project, including a final report that enables them to demonstrate servant leadership, teamwork, responsibility, respect and integrity. General elective. (Prerequisite: Enrollment in years two through five, participation in intercollegiate varsity sports team)
PHAR 1102 Introduction to Healthcare (2 Cr.)
The course provides an overview of the healthcare system, focusing on basic concepts in patient-centered care, the health care system, and the health of the public. The class will help students understand various health care settings, different health care professional roles and activities in these settings, and career paths available.

PH 3100 Pharmaceutics (5 Cr.)
This course presents physicochemical concepts related to the design of drug delivery systems, including topics of solution behavior and flow, interfacial phenomena, disperse systems, solubility, and dissolution. Concepts are applied to dosage form design, with an emphasis on formulation, manufacturing and extemporaneous compounding. Students will understand the effects of physicochemical properties on the preparation and therapeutic performance of a dosage form. At the completion of this course, the student will be able to describe the general principles involved in the preparation and use of safe and effective dosage forms. (Prerequisites: MA 1100, PY 2100, and PP 2110)

PH 3700 Surgical, Medical, and Orthopedic Devices (2 Cr.)
The role of the pharmacist in providing surgical, medical, and orthopedic devices for patient use in the home environment is studied. Emphasis is placed on the role of the pharmacist in selecting the appropriate devices to meet patient needs and in instructing patients in their proper use. Professional elective.

PH 4100 Biopharmaceutics (2 Cr.)
Clinical efficacy is dependent on the optimal selection of drug product. This course discusses the effects of the physicochemical properties of the drug and dosage form (includes traditional and novel drug delivery systems) on drug bioavailability and therapeutic effectiveness. Four hours of lecture each week taught over a 7-week period. (Prerequisite: PH 3100)

PH 4110 Pharmacokinetics (2 Cr.)
A study of the rate processes involved in drug absorption and disposition. Instruction includes basic pharmacokinetic principles necessary for understanding individualized dosing regimens. The course provides practical experience in solving problems involving the design of dosage regimens based on pharmacokinetic parameters obtained from actual patients. (Prerequisites: PH 3100, PH 4100, and PC 4100)

PH 4730 Advanced Nonprescription (OTC) Products (3 Cr.)
The role of the pharmacist in the safe and rational use of nonprescription products is presented. Problem-solving skills involved in the evaluation and recommendation of these products are stressed. Nonprescription ingredients are studied, with an emphasis on pharmacodynamics, indications, contraindications, precautions, drug interactions and appropriate administration. Professional elective. (Prerequisite: Fourth-year standing)
PH 4750 Advanced Compounding (2 Cr.)

This course will provide advanced training in the art, science and technology of pharmaceutical compounding. It is a hands-on, laboratory-based course that will help the students become proficient in contemporary compounding techniques and equipment. The focus is on the patient-centered results of compounding, including the preparation of the various drug products and evaluation of the safety and efficacy of each product for each patient. Professional elective. (Prerequisite: PH 3100)

PP 2110 Introduction to Pharmacy Practice (2Cr.)

This first professional course introduces students to pharmacy practice roles and responsibilities within the health care system. The importance of professionalism and ethics will be introduced as a foundation for the practice of pharmacy. The pharmacist’s responsibilities to be introduced include: medication distribution, providing drug information, providing direct patient care, patient communication, and education. Students will also be introduced to the calculations needed for patient assessment and dose determination. (Prerequisite: second-year standing)

PP 2120 Introduction to Pharmaceutical Care: Non-Prescription Drugs and Drug Information (3 Cr.)

This course introduces students to the practice of pharmaceutical care in the context of nonprescription drug therapy. Students apply valuing and ethical decision-making principles to the provision of pharmaceutical care. Basic drug information skills are honed through use of drug information resources and basic literature search strategies. Students assess patient-specific conditions; evaluate patient-specific, non-prescription regimens; select/recommend non-prescription drug therapy; monitor non-prescription drug therapy; and educate patients about non-prescription drugs. Outside of class preparation is expected through use of online presentations and assignments. Active learning is used in class sessions to apply principles introduced in online lectures and assigned readings. (Prerequisite: completion of, or concurrent enrollment in, AP 2110)

PP 3110 Pathophysiology (5 Cr.)

This course introduces students to many of the diseases which pharmacists are involved with managing. The course examines the mechanisms, etiologies, risk factors, and complications of disease processes. Clinical signs and symptoms, natural history, prognosis, and monitoring of major disease states are emphasized. Students use the SOAP process to practice assessing patient-specific diseases and monitoring for expected disease outcomes or complications. A two-hour discussion period is included weekly. (Prerequisite: AP 3100)

PP 3150 Introductory Pharmacy Practice Experience: Foundations of Pharmacy Practice (1 Cr.)

With the mentorship of a sixth-year student, students are introduced to the foundations of pharmacy practice and patient care responsibilities through site visits and related assignments. Students observe pharmacist interactions with patients and health care professionals in multiple pharmacy settings. This experience helps students relate early curricular content and principles to pharmacy practice. (Prerequisites: AP 2100, concurrent enrollment in or completion of PP 2120, MO pharmacy intern license, and completion of health, drug test and background check requirements)
PP 4140 Introductory Pharmacy Practice Experience: Safe Medication Practices – Community Pharmacy (3 Cr.)
This course introduces students to community pharmacy practice through a supervised, three-week full-time experience (120 hours) at a community pharmacy. Students, with supervision of a pharmacist-preceptor, will apply knowledge and skills gained during prior coursework to community pharmacy practice. Students will function as part of a pharmacy team in prescription processing and use of computer systems, prescription preparation, reimbursement processes, and non-prescription medication, and home monitoring product selection. Structured assignments will guide students to evaluate daily activities with an emphasis on safe medication use practices. (Prerequisites: PP 2120, PP 2110, PP 3150, EN 3100, MO pharmacy intern license, and completion of health, drug test, and background check requirements)

PP 4170: Introductory Pharmacy Practice Experience: Clinical Prevention and Population Health (1 Cr.)
This course introduces students to the potential roles of pharmacists in improving the health of populations. Topics include utilization of risk factors to screen for disease and principles of continuous quality improvement to improve systems of care and patient outcomes. Basic physical assessment techniques commonly used in health screenings (e.g. blood pressure) and additional patient communication, health belief, and behavioral change frameworks will be introduced. Students will complete 20 experiential hours delivering health messages to patients and performing health screenings in the community. (Prerequisites: EN 3100, PP 3710, PP4140, concurrent enrollment or completion of TH 4100/TH 4102, MO pharmacy intern license and completion of health, drug test, and background check requirements)

PP 4730: Integrated Interprofessional Practicum Experience (2 Cr.)
This course is designed to provide students with a learning experience focused upon system-centered care as members of an interprofessional team in collaboration with Saint Louis University. The interprofessional team will identify a pertinent health-related issue with their chosen population/organization. They will provide education, consultation, and/or direct care for the underserved individuals/families. Each professional will use his or her knowledge and expertise to maximize the productivity of the interprofessional team to improve health outcomes. Professional elective. (Prerequisites: PP 3110)

PP 4740 Introduction to Nuclear Pharmacy (2 Cr.)
Basic concepts include radiation, detection of radioactivity, and the production and quality control of certain radiopharmaceuticals. The localization and biochemical fate of major diagnostic radiopharmaceuticals and public health aspects of radiation are also studied. Emphasis is placed on the use of radioisotopes in medicine. Professional elective.

PP 4760 Parenteral Therapy (2 Cr.)
Topics presented include aseptic and IV admixture techniques, kinetics of parenteral dosage forms, fluid and electrolyte balance, use of parenteral fluids and electrolytes, principles of IV incompatibility, radiopharmaceuticals, blood component products, handling and disposal of antineoplastics, calculating millequivalents, and total parenteral nutrition formulas. Professional elective. (Prerequisites: PH 3002 and AP
 PP 5155 Introductory Pharmacy Practice Experience: Safe Medication Practices – Health System Pharmacy (3 Cr.)

This course introduces students to health-system pharmacy practice through a supervised, three-week full-time experience (120 hours) at a hospital pharmacy. Students will apply knowledge and skills gained during prior coursework to health-system pharmacy practice. Students, under the supervision of a pharmacist preceptor, will participate in drug distribution and medication use systems, order processing and use of computer systems, order preparation including unit dose and intravenous admixtures, and clinical services. Structured assignments will guide students to evaluate daily activities with an emphasis on safe medication use practices. (Prerequisites: EN 3100, PP 4170, fifth-year status, MO pharmacy intern license and completion of health, drug test, and background check requirements.)

 PP 5156 Introductory Pharmacy Practice Experience: Interprofessional Patient Care (1 Cr.)

Introductory Practice Experience: Interprofessional Patient Care is a required course designed to introduce the student to longitudinal and interprofessional patient care principles. Students will practice various patient assessment and interviewing techniques in order to identify potential drug and/or disease-related problems, develop an assessment and plan for managing and monitoring those problems, communicating their recommendations to patients and other health care professionals, and documenting the interventions appropriately. (Prerequisites: PP 5155, MO pharmacy intern license and completion of health, drug test, and background check requirements)

 PP 5160 Disease State Management I: Clinical Epidemiology (2 Cr.)

Emphasizes concepts of biomedical literature evaluation and clinical epidemiology, including disease frequency, risk, cause, prognosis, and treatment outcomes. Utilizing required analysis and evaluation of selected studies from the primary literature, students practice selection of diagnostic tests/outcome measures and best therapies for treatment and prevention of diseases for patients and populations. Students also assess disease risk/prognosis and disease screening and prevention strategies for patients and populations. (Prerequisite: TH 4120)

 PP 5170 Disease State Management II: Evidence-Based Medicine (2 Cr.)

This capstone course teaches an evidence-based approach to managing pharmacotherapy in both individuals and populations. Students practice the steps of asking a PICO question, searching for and critically appraising pertinent biomedical medical information, and then applying the results to therapeutic decision-making and patient education in a variety of contexts, including managed care. The course also introduces systematic reviews and medical informatics (clinical decision support tools). The class incorporates important aspects of clinical epidemiology and biostatistics/literature evaluation. (Prerequisites: TH 4120 and PP 5160)

 PP 5180 Advanced Pharmacy Practice and Laboratory (4 Cr.)

The goal of this course, which includes lecture and laboratory, is to instill professional confidence in
students and to help prepare them to enter into an ethical, patient-centered practice. The laboratory will facilitate accomplishment of these goals by providing the students with opportunities to practice and refine relevant professional skills and to apply their knowledge to patient situations. A variety of professional skills will be emphasized, including communication, drug information, identifying and solving actual or potential drug-related problems, monitoring for therapeutic outcomes, and medication order processing. (Prerequisites: PP 5155, TH 4120)

**PP 5710 & PP 5730 Advanced Pharmacotherapy I and II (2 Cr.)**

This abilities-based elective course provides students the opportunity to enhance clinical decision-making skills and self-learning skills by focusing on complex pharmacotherapy cases and evaluation of primary literature and guidelines to promote effective abilities in evaluating pharmacotherapy regimens, selecting and recommending therapeutic regimens, and educating patients and health care professionals utilizing the principles of evidence based decision-making. Course topics change each year so students can take both Advanced Pharmacotherapy I and Advanced Pharmacotherapy II if desired. Professional elective.

(Prerequisite: TH 5100 and concurrent/prior enrollment in TH 5120)

**PP 5720 Women’s Health Pharmacotherapy (3 Cr.)**

Provides students with a focused introduction to the pharmacotherapy of women’s health. Students integrate knowledge of gender-specific issues and pharmacotherapy in selecting and evaluating pharmacologic therapy for common illnesses in women. Emphasis is placed on rendering care to women in the community pharmacy setting. One two-hour lecture and one one-hour lecture/discussion weekly. Professional elective.

(Prerequisites: TH 4100, TH 4120, and TH 5100)

**PP 6100 Pharmacy Practice Seminar (1 Cr.)**

Students develop a clinical prevention or population health service and present it in a formal professional forum. Self, peer, instructor, and external professional assessments enhance students’ professional communication ability. Two contact hours weekly. (Prerequisite: TH 5120)

**PP 6115 – 6198 Advanced Pharmacy Practice Experiences (32 Cr.)**

- PP 6115 Ambulatory Care (4 Cr.)
- PP 6125 Community Care (4 Cr.)
- PP 6161 Patient Care Selective (4 Cr.)
- PP 6162 Health-System Management (4 Cr.)
- PP 6165 Acute Care–General Medicine (4 Cr.)
- PP 6196 Elective I (4 Cr.)
- PP 6197 Elective II (4 Cr.)
- PP 6198 Elective III (4 Cr.)

These advanced pharmacy practice experiences (APPEs) are supervised, structured, full-time experiences (40 hours weekly). Students will apply abilities gained during prior coursework in various pharmacy practice settings. Each student is required to complete the eight advanced pharmacy practice experiences listed above to gain experience in the required pharmacy settings (community, health system, ambulatory care, and inpatient
general medicine). Elective rotations offer opportunities for students to explore areas of interest that are available in specialty pharmacy practice settings, patient care specialties, and non-patient care environments (e.g., drug information, managed care, pharmaceutical industry). (Prerequisites: satisfactory completion of all prior didactic and experiential coursework, a cumulative and professional GPA of 2.0 or higher, passing score on the Pharmacy Calculations Proficiency Exam, current CPR certification, current MO pharmacy intern license, completion of health, drug screening and background check requirements)

**PSYC 2210 Principles of Psychology (3 Cr.)**
This course presents the basic principles of psychology to develop an evidence-based understanding of human behavior. Students integrate their knowledge of learning and cognition, individual differences, and developmental changes with biological processes and social influences. Psychodynamic, humanistic, cognitive, behavioral, and biological perspectives are presented to describe behavior and mental processes, including theoretical explanations of health and psychopathology. Students practice applying these concepts to specific examples in their experiences, novel situations, and popular media. The fundamental link between the research and application of the principles of psychology is supported by an examination of empirical data in real-world settings. (No prerequisites.)

**PY 2100 Physics (4 Cr.)**
A one-semester examination of the major concepts of physics, including mechanics of motion; work and energy; translational and rotational equilibrium; fluid statics and dynamics; thermodynamics; electrostatics and electrodynamics; waves, with emphasis on sound and light; optics; and modern physics. Special emphasis is given to applications of physics to the human body. Three class hours and two laboratory hours each week. (Prerequisite: MA 1100)

**PY 3610 Physics II (4 Cr.)**
A continuation of PY 2100 with more in-depth investigation into the major concepts of physics. This course will prepare students for advanced work in the pharmaceutical sciences, graduate school, or medical school. Three class hours and two laboratory hours each week. General elective. (Prerequisite: PY 2100)

**R**

**Research Project (1 or 2 Cr.)**
Before a student may register for a research project, a written proposal describing the project must be approved by the sponsoring faculty member and respective division director. A student is allowed a maximum of two credit hours of research and/or special project per semester. Students must summarize the accomplishments of the project by preparing a written report. A final exam is optional. No more than four credit hours of special projects and/or research projects will count toward graduation requirements.
Selected Topics (2 or 3 Cr.)

Selected topics courses might be offered by any faculty member with the approval of the respective division director and curriculum committee. Selected topic courses are intended for students who wish to continue their studies of a discipline in which they have already taken one or more classes. (Prerequisites to be determined by instructor)

SEMR 1100 Foundations of Learning (2 Cr.)

This course is intended to assist students in their transition to life at St. Louis College of Pharmacy. Student entering colleges for the first time are bombarded with numerous academic and life challenges which may interfere with their overall academic success. The sessions in this course are designed to improve students' academic and life skills through interactive exercises, classroom discussions, homework, presentations and a final project. The first section of the course will be completed the Friday, Saturday, and Sunday before all other regular STLCOP classes convene. The remainder of the course will be completed during the regular, weekly classes held during the fall semester.

SL 1600 Spanish I (3 Cr.)

A one-semester Spanish course that emphasizes oral communication in a variety of topics at a basic level for pharmacists. No previous knowledge of the Spanish language is required.

SL 1610 Spanish II (3 Cr.)

A continuation of SL 1600. (Prerequisite: SL 1600)

SOCI 2210 Principles of Sociology (3 Cr.)

The discipline of sociology studies links between people and their society. This course uses sociological knowledge to strengthen students’ participation in their society. Emphasis is upon understanding for application. Concepts such as socialization, conformity & deviance, groups & bureaucracies, social classes & stratification, social power, and institutions such as family and work are tools to learn how social structures frame behavior.

Special Projects (1 or 2 Cr.)

Special projects are to permit an in-depth study of an advanced topic within a specific discipline. Before a student may register for a special project, a written proposal describing the project must be approved by the sponsoring faculty member and respective division director. Special projects are not to duplicate efforts in existing courses. A student is allowed a maximum of two credit hours of research and/or special project per semester. Students are to summarize the accomplishments of the special project by preparing a written report. A final exam is optional. No more than four credit hours of special projects and/or research projects will count toward graduation requirements.

SS 1110 Introduction to Sociology (3 Cr.)

Sociology is a strategy to understand social behavior. This course explores basic concepts and knowledge obtained through sociological analysis. Selected topics can include: socialization, groups, deviant behavior,
family, bureaucracy, and work. Format consists of lectures, class discussions, and student assignments.

**SS 1520 Introduction to Anthropology (3 Cr.)**
Surveys the study of human cultural development and variation. The course includes three major subfields: archeology, cultural anthropology, and physical anthropology. Liberal Arts elective.

**SS 1550 State Policy and Politics (3 Cr.)**
An introduction to state political systems and an overview of the legislative process and the roles and responsibilities of the executive, legislative, and judicial branches of state governments. At the end of the course, students will have a practical understanding of the issues and politics that affect legislation and bureaucratic decisions. Students also will participate in a mock session of the Missouri State Senate and draft legislation, work the legislation through committees and participate in floor debate. The course will have a special emphasis on health policy in Missouri and Illinois. Liberal arts elective.

**SS 2100 Principles of Psychology (3 Cr.)**
A study of the basic principles of human behavior with particular attention to the objectives and methods of psychology. Human development and aging; learning and memory; and personality and motivation are studied to better understand the capacities and potentials of human behavior.

**SS 2500 American Politics and Government (3 Cr.)**
A review of the basic principles that undergird the American governmental system, followed by an examination of the interrelationships between such groups as political parties, pressure groups, the presidency, Congress, and the courts. Students become actively engaged with the topics through political exercises and simulations. Liberal Arts elective.

**SS 2510 Cultural Anthropology (3 Cr.)**
Culture is resources adapted to human needs. This course is an introduction to cultural analysis, examining social institutions common to all cultures, e.g., family; foodgetting; healing and death; religion and rites of passage. Dimensions of cultural variation such as secret associations, economic systems, and social inequality are also included. Format consists of lectures, ethnographic analysis, class discussion, and ethnographic films. Liberal Arts elective. (Prerequisite: SS 1110 or SS 1520 or equivalent)

**SS 2520 Economics (3 Cr.)**
An introduction to the operation and development of the American economic system. The course is an overview of basic economic principles covering both macroeconomics and microeconomics. Discussion of current economic events are used to help students apply the principles to real situations. Lectures and discussions. Liberal Arts elective.
SS 2530 International Politics (3 Cr.)
Forces and factors in the struggle for world power and influence are studied. Focus is on the role of nationalism in struggles both in Europe and the Third World, and on the new role of the United Nations in the wake of the Cold War. Class discussion involves students in the critical analysis of major world issues. Liberal Arts elective.

SS 2540 Social Psychology (3 Cr.)
Introduction to the knowledge of how social variables influence individual behavior. Topics can include attraction, cooperation, dominance, influence, and leadership. Students learn to participate more effectively in daily social interaction. Format consists of lecture, class discussion, films, and specific assignments. Liberal Arts elective. (Prerequisites: SS 1110 and SS 2100)

SS 2550 Social Problems (3 Cr.)
Social problems occur when social policies and behavior contrast with societal values. The purpose of this course is to provide current information and knowledge about the causes of social problems in American society and evaluate alternative responses. Topics can include: crime, minority relations, substance abuse, and poverty. Format consists of lectures, class discussion, films, and specific assignments. Liberal Arts elective. (Prerequisite: SS 1110 or equivalent)

SS 2560 Family in Modern Society (3 Cr.)
Explores the development of intimacy as foundation for marriage and family life within social and family structures. Focus is upon contemporary families in the United States. Topics include: self-revelation; child raising; crises; second families; and life in the elder years. Format consists of lectures, group activities, class discussion, guests, and relevant films. Liberal Arts elective. (Prerequisite: SS 1110 or equivalent)

SS 2570 Human Growth and Development (3 Cr.)
Study of the physical, psychological, and social developments throughout the human life span. Lectures, discussion, video presentations, and activities. Liberal Arts elective. (Prerequisite: SS 2100 or equivalent)

SS 3510 Deviant Behavior (3 Cr.)
Deviance occurs when behavior does not conform to social expectations. This course is an opportunity to understand the social roots of deviant behavior, including the application of deviant labels to behavior; the process of becoming deviant; and sociological explanations of deviant behavior. Types of deviance can include: substance addictions, sexual deviance, criminal behavior, and suicide. Format consists of: lectures, ethnographic analysis, and class discussion. Liberal Arts elective. (Prerequisite: SS 1110 or equivalent)

SS 3520 Social Foundations of Religion (3 Cr.)
An inquiry into the relationships between religion and society. Emphasis is on the contemporary United States. Topics include: the elements of religion, commitment, conversion, secularization, and religiosity. Specific organizations, changes, and trends of religious expression are selected each time the course is offered.
Format consists of: lectures, class discussion, films, and specific assignments. Liberal Arts elective.
(Prerequisite: SS 1110 or SS 1520 or equivalent)

SS 3590 Social Aspects of Aging (3 Cr.)

The purpose of this course is to study the social effects of aging processes. Stereotypes of aging, differences between needs and desires, health, public policy issues, and adjustment to a changing social identity are major topics covered. Format consists of: lectures, class discussion, and specific assignments. Liberal Arts elective.
(Prerequisite: SS 1110 or SS 1520 or equivalent)

TH 4100 Therapeutics I (4 Cr.)

Emphasizes integration of principles of pathophysiology and pharmacology in the treatment of renal diseases, fluid and electrolyte disorders, acid-base disorders, cardiovascular diseases, diabetes, nutrition, and obesity. Students also learn and use drug informatics skills, adverse drug event surveillance, and basic literature evaluation to address therapeutic questions. Students use the SOAP process to assess diseases, evaluate and solve therapeutic problems, devise plans for drug therapy and monitoring, and provide patient and health care provider education and information. (Prerequisites: PP 3110 and concurrent enrollment in PC 4100)

TH 4120 Therapeutics II (4 Cr.)

Emphasizes integration of principles of pathophysiology and pharmacology in the treatment of hematologic disorders, arthritic disorders, autoimmune diseases, gastrointestinal disorders, psychiatric disease, endocrine disorders, women’s health, pulmonary disorders, and drug dependence and withdrawal. Students utilize drug information skills and basic literature evaluation to address therapeutic questions. Course outcomes include thinking and decision-making, communication, and self-learning. Students use the SOAP process to assess diseases; evaluate and solve therapeutic problems; devise plans for drug therapy and monitoring; and provide patient or health care provider education. One three-hour lecture and one two-hour discussion weekly.
(Prerequisites: TH 4100 and concurrent enrollment in PC 4120)

TH 5100 Therapeutics III (4 Cr.)

Emphasizes integration of principles of pathophysiology, pharmacology, and pharmacokinetics in the treatment of neurologic diseases, infectious diseases, poisonings, and drug overdoses, and disorders in pediatric and geriatric patients. Requires utilization of drug information skills and basic literature evaluation to address therapeutic questions. Students use the SOAP process to assess diseases; evaluate and solve therapeutic problems; devise plans for drug therapy and monitoring; and provide patient education. One three-hour lecture and one two-hour discussion weekly. (Prerequisites: TH 4120, PC 4120, and PH 4110)

TH 5120 Therapeutics IV (4 Cr.)

Emphasizes integration of principles of pathophysiology, pharmacology, and pharmacokinetics in the
treatment of oncologic disorders, solid organ transplantation, infectious diseases, and critical care medicine. Requires utilization of drug information skills and basic literature evaluation to address therapeutic questions. Students use the SOAP process to assess diseases, evaluate and solve therapeutic problems, devise plans for drug therapy and monitoring, and provide patient education. One three-hour lecture and one two-hour discussion weekly. (Prerequisite: TH 5100)

WE 2310 Mind, Media & Culture (3 Cr.)
This course explores the influence of media on cultural patterns and human consciousness, using the concept of “media ecology” as an organizing principle. We will analyze the impact of contemporary electronic media first by putting them in perspective of earlier cultures’ modes of information storage and communication, including oral-aural culture, scribal/manuscript culture, print technology culture, and the culture of electric communication and knowledge storage. We will then analyze how thinking and valuing are influenced by hypertext, World Wide Web, e-mail, listservs, social networking media (MySpace, twittering, instant messaging, etc.), cell phones, You-Tube, blogs, and electronic educational software and technology. Liberal Arts elective. Writing Emphasis elective. (Prerequisites: EN 1001 & 1002, HU 2001)

WE 2335 The Art of Film (3 Cr.)
An introduction to basic techniques of film production and formal methodologies for analyzing film art. Students will learn the essential components of film language — staging, camera placement, camera movement, editing, lighting, special effects, film stock, lenses — to heighten perceptual skills in viewing films and increase critical understanding of the ways films function as visual discourse. Liberal arts elective.

WE 2400 Basic Problems in Philosophy (3 Cr.)
Through lectures, discussions, and collaborative learning strategies, students are encouraged to understand and analyze basic issues in logic, metaphysics, epistemology, and ethics. Writing emphasis elective. Liberal Arts elective.

WE 2600 The Fate of the Planet: Man’s Impact on the Earth (3 Cr.)
Global warming, species extinction, pollution, and other impacts of human activity will be discussed in this course. In addition, we will discuss how to lessen the harmful effects of human activity on the quality of the atmosphere, the water supplies, and ecosystems. Writing emphasis elective. (Prerequisites: EN 1001, BI 1100, CH 1001)

WE 3200 Shakespeare (3 Cr.)
Study of selected plays (histories, comedies, and tragedies) and of some critical approaches to Shakespeare. Frequent writing assignments require students to analyze plays closely, develop insights, organize their ideas, and communicate clearly in writing. Writing emphasis elective. Liberal Arts elective. (Prerequisite: A lower-level literature course)

WE 3310 The Science in Science Fiction (3 Cr.)
The content of science fiction novels and movies are examined with respect to the accuracy of the science they portray. Topics examined include: cloning of animals, cloning of humans, the future of robotics and artificial intelligence, space travel, time travel, and environmental disasters. Writing emphasis elective. (Prerequisites: EN 1001, EN 1022, BI 1100, CH 1001, PY 2100)

WE 3420 World Religions (3 Cr.)
An introduction to the major world religions as well as basic religious values and beliefs of Africans, Asians, and Native Americans. Comparing these with their own, students better understand themselves, their beliefs, and their values. Writing emphasis elective. Liberal Arts elective. (Prerequisite: concurrent registration in or completion of HU 2002)

WE 3500 International Relations/World Politics (3 Cr.)
Focusing on the politics and policies among nations, this course explores balance of power, balance of terror, terrorism, developing countries, international economic transactions, multinational corporations, international organizations, and the foreign policies of the major powers. Writing emphasis elective. Liberal Arts elective. (Prerequisite: SS 2500. A student cannot receive credit for both SS 2530 and WE 3500.)

WE 3510 Psychology of Personality (3 Cr.)
An investigation of psychological theories that attempt to explain how personality is determined. Frequent writing assignments encourage students to ponder and answer universal, broad questions relating to personality theory. Writing emphasis elective. Liberal Arts elective. (Prerequisite: SS 2100)

WE 3520 Abnormal Psychology (3 Cr.)
A survey of mental disorders, their signs, symptoms, underlying causes, and treatments. Students will learn how a given disorder develops, signs and symptoms that characterize the disorder, how the disorder is treated, and the outcomes of treatment. Students will develop case conceptualization skills to systematically evaluate the critical elements of a clinical case. Writing emphasis elective. Liberal Arts elective. (Prerequisite: SS 2100 or permission of the instructor)

WE 3530 History of the Cold War (3 Cr.)
An analysis of humanity’s search for peace and security from 1945 to the present, especially the superpower rivalry among the United States, the former Soviet Union, and China. The competing global agendas of the world’s superpowers provide a unique historical backdrop for students to sharpen critical reading and thinking skills through lectures, discussions, films, and written work. Writing emphasis elective. Liberal Arts elective.
WE 3540 History of Medicine and Pharmacy (3 Cr.)
Traces humanity’s search for health and well-being from prehistoric times to the present, especially the evolution of medicine and pharmacy. The course covers themes that highlight the social, scientific, and economic development of medicine and pharmacy with an emphasis on the evolution of the American health care system. Writing emphasis elective. Liberal Arts elective.

WE 3550 Studies in Social Psychology (3 Cr.)
Selection of substantive areas such as aggression, social cognition, collective behavior, influence of media, presentation of self, and processes of social definition. Format consists of lectures, library and observation assignments, class discussions, and student presentations. Written assignments will apply and elaborate on course content. Writing emphasis elective. Liberal Arts elective. (Prerequisites: SS 1110 and SS 2100 or equivalents)

WE 3570 Personal Finance for the Health Care Professional (3 Cr.)
This course is designed to provide students with the tools needed to financially succeed after graduation. This course is geared toward traditional students who have never experienced the complex process of financial planning, primarily because they have been in school full-time. They will be taught personal finance principles in the areas of taxes, insurance, basic investing, loans and credit, debt consolidation, home purchasing, and basic money management. Writing emphasis elective.

WE 3580 History of Mental Illness: Causes, Cures & Confinement Antiquity to De-Institutionalization (3 Cr.)
This course examines mental illness in historical context from antiquity through institutional decommissioning in late-twentieth century America and traces the salient and variable features of mental illness as it was constructed through each of these periods. Primary sources will include medical manuals, legal documents, religious texts, works of literature, art and architecture, as well as the diaries of those who cared for the mentally ill and, in rare cases, the accounts of the mentally ill themselves. These primary sources will be augmented by secondary sources from acclaimed scholars in early modern and modern history, the history of medicine, cultural studies, gender studies, philosophy, and religious studies. The course pays close attention to the diagnosis and treatment of mental illness, the experiences of the mentally ill, and the responses to mental illness in society and culture. Writing emphasis elective. Liberal arts elective. (Prerequisites: EN 1001, EN 1022, HU 2001 & HU 2002)

WE 3600 Science and Media (3 Cr.)
An investigation of the nature of the scientific discipline and of its representation to the general public through the media. Writing emphasis elective. General elective. (Prerequisites: EN 1001 and EN 1022)

WE 3610 Extreme Physiology: The Limits of Physiologic Compensation (3 Cr.)
This course will examine the inter-relations between homeostatic compensatory mechanisms and specific features of environmental stress. The effects of external body temperature, relative humidity, barometric pressure, and gravity on basic physiologic processes such as external and internal gas exchange, obligate water loss, blood circulation, etc. will be examined in some detail. Building off of the concept of gradients, the course will explore how specific alterations in normal gradients would be expected to alter physiologic function of a human placed in an extreme environment of the student’s choice. The limits of human physiology will be compared and contrasted with other animals’ adaptations (if any) to specific components of those extreme environments. Students will write a major term paper summarizing their findings on if/how the human body could adapt to cope with the specific suite of environmental challenges presented by that particular environment. Both immediate and long-term survivability will be considered. Writing emphasis elective. (Prerequisites: PY 3610 and AP 3100 or co-enrollment in AP 3100)

WE 3720 Biomedical Ethics (3 Cr.)
The ultimate goal of this course is for students to develop and refine ideas relating to contemporary issues in biomedical ethics through class participation (discussion of case studies and role plays), critical thinking, and writing. The foundation for these processes is a description of various ethical theories and ethical principles. The application of those principles to pharmacy practice and the provision of pharmaceutical care is emphasized. Professional elective. Writing emphasis elective.

WE 3725 Advanced Health Communication (3 Cr.)
This course provides an overview of the field of health communication and its use as a tool in improving individual, community, and global health outcomes. Topics include conceptions of health and illness, interpersonal communication and care, social support and emotion in health care, community mobilization, public relations and public advocacy. Professional elective. Writing Emphasis elective. (Prerequisites: EN 3100)

WE 3730 Topics in Pharmaceutical Care: Community Service (3 Cr.)
This course provides students with a structured community service experience so they can: 1) explore their values, particularly attitudes toward service; 2) gain experiential knowledge of the population they are serving; 3) learn about the operations of social/medical agencies; and 4) develop a better understanding of patient-centered care. Students schedule and prepare service activities; make weekly visits to patients/clients; and reflect on their experiences during oral discussions and in written journals and essays. Two hours of lecture and discussion, plus two to three hours of service activity weekly. Professional elective. Writing emphasis elective. (Prerequisites: HU 2001 and 2002. Students cannot receive credit for both this course and WE 3735, Topics in Pharmaceutical Care: International Community Service.)

WE 3735 International Service Learning (3 Cr.)
The practice of pharmaceutical care requires not only knowledge and skills regarding drug therapies but also a “caring” attitude, and empathy and compassion for those to whom the practitioner renders service. This course provides students with a structured international service experience so that they can 1) explore their values, particularly their attitudes toward service, 2) gain experiential knowledge of the population they are serving, 3) learn about public health and the operations of social/medical agencies, and 4) develop a better
understanding of patient-centered care. Through discussion sessions and frequent writing activities, students will clarify and develop their ideas and attitudes about service. Professional elective. Writing emphasis elective. (Prerequisites: HU 2001 and 2002. Students cannot receive credit for both this course and WE 3730, Topics in Pharmaceutical Care: Community Service.)

**WE 3740 Nutrition for Pharmacists (3 Cr.)**

This writing emphasis professional elective covers the basic concepts of the science of nutrition and emphasizes topics that are particularly relevant to pharmacists. (Prerequisites AP 2100 and completion of or concurrent enrollment in AP 3100)

**WE 3745 Epidemiology and Public Health (3 Cr.)**

Public health epidemiology has provided much of the foundation for modern health care. This course is designed to provide an overview of the principles, measures, and methods of public health epidemiology, and to illustrate their application using classic public health literature. The goal of the course is to provide the student with an appreciation of the role of public health epidemiology in modern health care, and particularly pharmacy, practice, and the ability to communicate this information to others. Professional elective. Writing emphasis elective.

**WE 3750 The Global Pharmacist (3 Cr.)**

This interdisciplinary course takes a holistic approach to the human experiences of embodiment, suffering, and healing across historical periods, diverse cultures, and through the life cycle. Students will become familiar with the biomedical model, which is rooted in modern western biomedical science and practice, and the biocultural model, which comprises the multiple cultural, social, economic, and individual forces that shape the culture of healing in and beyond official medicine.

**WE 3760 Intercultural Communications in Health Care (3 Cr.)**

This course introduces students to ways that culture can affect health care beliefs and practices. Students will gain theoretical and practical tools for communicating with patients and health care providers from diverse cultural backgrounds. Writing emphasis elective. Professional elective. (Prerequisite: EN 3100 or permission of instructor)

**WE 3780 Writing for Health (3 Cr.)**

Students who successfully complete this course will learn how writing about illness, loss and grief can improve health outcomes. Skills are developed through investigation of the healthcare literature, self-reflection, group discussions, and written exercises. As an upper-level, professional writing emphasis elective, the assignments are structured to allow students to develop as self-directed, independent learners. Professional elective. Writing Emphasis elective.

**WE 3790 Illness, Identity, and Inequality (3 Cr.)**

This course examines the historical role that social identity has played in mediating the delivery and
experience of health care in the U.S. It traces changes over time in the experience of American patients whose identities have been filtered through the social categories of gender, race/ethnicity, sexuality, class, and religion. We will probe how, why, and when these differences in social identity produced (and produce) discernible disparities in diagnosis, therapeutics, overall health outcomes, and access to care. Although the course will draw from the insights of U.S. History, Women’s Studies, and African-American Studies, background in those disciplines is not required. Professional elective. Writing emphasis elective.

WE 4700 Current Topics in Infectious Diseases (2 Cr.)
This course emphasizes pathophysiologic aspects of selected common infections, clinical microbiology, laboratory diagnosis, and treatment and monitoring of infections. One two-hour lecture/discussion weekly. Professional elective. Writing emphasis elective. (Prerequisites: MI 3100, PP 3100, and concurrent enrollment in PC 4001)

WE 4710 Topics in Pharmacotherapeutics: Geriatrics, Neurology, and Psychiatry (2 Cr.)
Students learn the pathophysiology, clinical diagnosis, and non-pharmacologic management of major neurologic, psychiatric, and geriatric disorders. This course also introduces pharmacologic/therapeutic strategies in preparation for rendering pharmaceutical care. Professional elective. Writing emphasis elective. (Prerequisites: PP 3100, and concurrent enrollment in PC 4001 and TH 4001)

WE 4720 Selected Topics in Pathophysiology (3 Cr.)
This course requires students to acquire relevant information from tertiary sources, organize and synthesize that information, and write a clear explanation as to how the normal physiology is altered and how the standard treatment(s) will restore homeostatic balance. Frequent writing assignments, with revision based upon both instructor and peer review, enable students to enhance their understanding of pathophysiologic processes and therapeutic treatments, and also enhance the structure and clarity of their writing. Writing emphasis elective. (Prerequisite: PP 3110)

WE 4725 Doing Research in Public Health (3 Cr.)
The course provides an opportunity for students to conduct public health research, usually on projects that have already been designed and are awaiting implementation. Students will work in teams, using either their own or on-going projects. Projects must be designed to allow all of the following during the semester: human subject approval, site approval if necessary, pilot testing, implementation, data collection, data analysis, project write-up, and project presentation to the class at the end of the semester. Teams are expected to make a presentation in the spring semester following the course. Professional elective. Writing Emphasis elective. (Prerequisite: WE 4740 or permission of instructor)

WE 4730 Leadership in Health Care Organizations (3 Cr.)
This course is designed to develop students’ leadership skills by building a strong foundation in traditional and contemporary leadership theory. These skills are developed through self-assessment, group discussions, case studies, and written exercises in health care settings. Writing is used in this course as a tool to learn course content. Professional elective. Writing emphasis elective.
WE 4735 Pharmacogenomics (3 Cr.)
Pharmacogenomics is the study of how a patient’s unique genetic variations affect their response to pharmaceutical agents. This course teaches the necessary tools to learn and interpret new advances in pharmacogenomics as they become available. These tools include a sufficient knowledge base in human genetics and genomics, and the ability to use this knowledge base to understand and interpret new pharmacogenomic findings and their significance to drug treatment approaches. One three-hour class session weekly. Professional elective. Writing emphasis elective. (Prerequisites: AP 3100, MI 3100)

WE 4740 Public Health Research Perspective in Pharmacy (3 Cr.)
The course provides a public health perspective for issues related to pharmacy and the pharmaceutical needs of populations. The scope of the class includes both national and global concerns. Topics include health promotion, disease prevention, epidemiology, health policy, ethics, culture, law, health education, and disaster management. The class format includes the review of current literature and the development of a written public health research proposal. Professional elective. Writing Emphasis elective. (Prerequisite: 3rd year student or above)

WE 4745 Indigent Populations: Focus on Health Literacy (3 Cr.)
This interprofessional course will focus on health literacy of indigent populations with opportunities to provide health information to residents at Gateway Homeless Shelter and education materials at an inner-city clinic. The students will develop knowledge and competence in the areas of interprofessional collaboration (along with nursing students), patient-centered care (including health literacy), care coordination, and navigating the health system, all in the context of service to a homeless population. The majority of writing assignments will be weekly journals reflecting on civic engagement opportunities and will include personal thoughts, insights, and emotions in response to those activities. Professional elective. Writing emphasis elective.

WE 4750 Geriatric Pharmacy Perspective (3 Cr.)
This course is designed to prepare the student to serve the pharmaceutical needs of a rapidly growing older population. The psychosocial, as well as the pathological aspects, of aging are studied. Emphasis is placed on evaluative and monitoring criteria as well as legal and professional requirements for serving both ambulatory and institutionalized elderly patients. Professional elective. Writing emphasis elective. (Prerequisite: Fourth-year standing)

WE 4755 Introduction to Drug Development (3 Cr.)
This course familiarizes students with the complicated process that precedes marketing authorization of pharmaceuticals in the United States. Through various activities and assignments, students will be exposed to the data and strategy behind various sections of the U.S. Prescribing Information (USPI), as well as the integrated approach to drug development within a pharmaceutical company. This course will provide the opportunity for students to apply the knowledge and principles they have gained in courses such as
pharmaceutics, pharmacology, and therapeutics as they learn how all of these components are incorporated to advance a drug to market. (Prerequisites: EN 1001 & EN 1022)

**WE 4770 Introduction to Pharmacy Entrepreneurship (3 Cr.)**
This course is designed to acquaint the student with the requirements for small business ownership and prepare the student for the practical problems associated with initiating a retail enterprise. Emphasis is placed on the establishment of appropriate management procedures, estimates of capital requirements, and the mechanics involved with the initial operation of a small business. Professional elective. Writing emphasis elective. (Prerequisite: PA 5120 or permission of the instructor)

**WE 4775 Primary Care (3 Cr.)**
This course is designed to further develop the student in the roles of a pharmacist providing patient-centered care in a primary care practice setting. This course furthers build upon knowledge, skills, and abilities developed in the Therapeutics course sequence. (Prerequisites: EN 1001 & EN 1022)

**WE 5710 Current Topics in Pharmacotherapeutics: Primary Care (3 Cr.)**
Primary care is a subset of ambulatory care that provides comprehensive, first contact, and continuing care to patients with chronic medical problems. Topics discussed include improving patient compliance, smoking cessation, allergic rhinitis, and hormone replacement. Management of patients with multiple medical problems is discussed, and opportunities are provided to practice written documentation suitable for inclusion in the medical record. Professional elective. Writing emphasis elective. (Prerequisite: Completion of, or concurrent enrollment in, TH 5001)

**WE 5730 Principles of Management (3 Cr.)**
This course enables students to explore the theoretical framework and practical application of classic management principles, so they can function effectively in a variety of organizational settings in the provision of health care services. Topics include the management process, managerial decision-making and planning, negotiation skills, and work design. (Prerequisites: Concurrent registration in, or completion of, PA 5120 and PA 5130; permission of the Dean’s Office)

**WE 5780 Advanced Leadership (3 Cr.)**
This course enables students to engage in the advanced study of leadership, integrating theory, research, and application in a diagnostic approach. Leadership skills for managing planned organizational change and creating learning organizations are developed through Web-based learning technologies. Topics include personal effectiveness, team building, and creating learning environments in organizations. Professional elective. Writing emphasis elective. (Prerequisites: Completion of, or concurrent enrollment in, PA 5120 and PA 5130; permission of the Dean’s Office)

**WRIT 1101 The Effective Writer (3 Cr.)**
This course teaches students to write clearly and substantively in a range of writing modes. The course
introduces students to the forms and conventions of college-level writing and to the varying expectations of different readers. Toward these ends, it guides students to read carefully and critically, preparing them to make sense of challenging texts they will encounter throughout their academic careers and beyond. The central outcome of the course is to help students read and write more effectively. This course is a prerequisite for The Writer as Advocate and teaches essential foundational skills for subsequent writing assignments in other courses, including Writing Emphasis courses.

**WRIT 1102 The Writer as Advocate (3 Cr.)**

This course focuses on how writers use language to persuade and convince readers. Drawing on their understanding of the reader, context, and content, students will draft and revise text strategically to accomplish specific purposes. Students will learn to write arguments that clearly define and soundly support their positions on an issue, and they will apply these skills in an academic research paper that demonstrates a deep understanding of a complex topic using carefully selected sources. The course teaches essential critical thinking and rhetorical skills for subsequent writing assignments in other courses, including Writing Emphasis courses. (Prerequisite: WRIT 1101 or equivalent with a grade of C- or better).