SAINT LOUIS UNIVERSITY

CATALOG
GRADUATE EDUCATION
2014 - 2015

TABLE OF CONTENTS

SAINT LOUIS UNIVERSITY **1**
Table Of Contents 2

General Information **3**
Introduction 3
History 3
Mission 4
Accreditation 4
Objectives 4
Organization and Governance 4
Graduate Education Contacts 5

Campus Resources and Services **6**
Academic Support Resources 6
Financial Resources 9
Campus Resources and Services 9
Student Life and Services 11

Academic Policies and Procedures **13**
General Policies 13
Academic Standards 15
Admission Policies 19
Matriculation Policies 21
Registration 23

Graduation Requirements and Policies 26
Consortiums 30
Dual-Degree Programs 31
Certificate Programs 32

Curricula and Courses **33**
Introduction 33
College of Arts and Sciences 34
School Of Law 76
School Of Medicine 78
John Cook School Of Business 87
Parks College of Engineering, Aviation, and Technology 93
School of Nursing 99
Doisy college of health sciences 105
College for Public Health and Social Justice 120
School for Professional Studies 140
College of Education and Public Service 145
Albert Gnaegi Center For Health Care Ethics 151
Center For Advanced Dental Education (CADE) 156
Center For Sustainability 160
Center For Outcomes Research (SLUCOR) 163

General Information

INTRODUCTION

The programs of Saint Louis University are open to all without regard to race, color, sex, age, national origin, religion, sexual orientation, disability, or veteran status. All University policies, practices, and procedures are administered in a manner consistent with its Catholic and Jesuit identity. Programs and activities located in facilities not easily accessible to disabled persons will be made accessible through relocation or other means upon request. For general information, call 314.977.2222.

The 504 and ADA Coordinator, the University's Affirmative Action Officer, is located in DuBourg Hall, Room 36; Telephone 314.977.3838.

Visit the website of the Office of Institutional Equity and Diversity for information on Saint Louis University's non-discrimination and equal opportunity policies. The office reviews complaints that allege violation of Saint Louis University's policies.

This catalog is for information purposes and does not constitute a contract. Although the Catalog was prepared with the latest information available at the time of publication, the statements concerning fees, courses, admission and graduation requirements, general regulations and curricula are subject to change. Graduate Education's Webpage: www.slu.edu/x52519.xml

Please refer to your college, school, center or program handbook for additional information, policies and procedures of your program.

HISTORY

Saint Louis University, a private university under Catholic and Jesuit auspices, traces its history to the foundation of the Saint Louis Academy by the Right Reverend Louis William DuBourg, Bishop of Louisiana, in 1818. At Bishop DuBourg's request, the Society of Jesus assumed the direction of the school in 1827. This small Jesuit College received its charter as Saint Louis University in 1832, becoming the first university established west of the Mississippi River. The University settled at its present site on Grand Boulevard in 1888.

Saint Louis University has two campuses: The St. Louis, Missouri campus and the Madrid, Spain campus. The St. Louis campus is physically divided into the Frost Campus, located in the Grand Avenue midtown area, and the Medical Center, located one mile to the south.

Saint Louis University is classified as a Research University: High Research Activity by the Carnegie Foundation for the Advancement of Teaching. The University enrolls more than 14,000 full- and part-time students including a significant number from countries around the world.

The University is presently composed of the following colleges, schools and centers offering post-baccalaureate programs.

College of Arts and Sciences (established in 1818)
School of Law (1842)
College of Philosophy and Letters (1898)
School of Medicine (1903)
John Cook School of Business (1910)
Parks College of Engineering, Aviation, and Technology (1927)
School of Nursing (1928)
Doisy College of Health Sciences (1979)
College for Public Health and Social Justice (1991)
School for Professional Studies (1996)
College of Education and Public Service (1998)
Albert Gnaegi Center for Health Care Ethics (1979)
Center for Advanced Dental Education (1994)
Center for Sustainability (2010)
Center for Outcomes Research (SLUCOR) (2002)

MISSION

The Mission of Saint Louis University's Graduate Education is to advance the frontiers of knowledge and technical expertise and to prepare students to make their own contributions to such advances in their disciplines and professions by helping them carry out their responsibilities in an ethical and professional manner.

In realizing this mission, Graduate Education at Saint Louis University is committed to specific goals and objectives:

- To articulate a vision of excellence for the post-baccalaureate community
- To bring an institution-wide perspective to all post-baccalaureate endeavors
- To maintain high academic standards across all academic disciplines
- To promote the ideals of a Catholic, Jesuit education
- To promote the research mission of the University
- To enhance the community of scholars among both post-baccalaureate students and faculty
- To develop strategies for post-baccalaureate education that contribute to and enhance undergraduate education
- To serve as an advocate for post-baccalaureate education
- To emphasize the institution-wide importance of educating future college, university and high school teachers, and professionals in a variety of fields
- To serve as an advocate for issues and constituencies critical to the success of post-baccalaureate education
- To support and further the non-academic interests and needs of post-baccalaureate students

ACCREDITATION

Saint Louis University is accredited by the Higher Learning Commission (HLC) of the North Central Association of Colleges and Schools (NCA), and has been continuously accredited since 1916. Inquiries on accreditation may be made to the Higher Learning Commission of the North Central Association of Colleges and Schools, 230 South LaSalle Street, Suite 7-500, Chicago, Illinois 60604-1411, (800) 621-7440

Some colleges, schools and programs have also attained individual accreditation from professional disciplinary associations.

OBJECTIVES

In keeping with its mission as a Jesuit institution dedicated to striving for excellence under the inspiration of the Catholic faith, Saint Louis University seeks to establish a collegial environment in which those of diverse cultural backgrounds and religious beliefs can participate in the community in a spirit of cooperation and mutual respect.

Based on the conception of the person as a free and responsible agent capable of making a difference for good or ill in the world, the University directs its educational efforts to help students develop as critically reflective and socially responsible persons, capable of exercising leadership in advancing the cause of human good in the world, through service to others.

The University’s commitment to academic excellence is evident in its post-baccalaureate programs, which have a twofold purpose: to advance the frontiers of knowledge and technical expertise in their disciplines and professions, and to prepare students to make their own contributions to such advances by helping them carry out their responsibilities in an ethical and professional manner.

ORGANIZATION AND GOVERNANCE

The Associate Vice President for Graduate Education coordinates university-wide post-baccalaureate activities, including candidacy and graduation. Deans and Directors are responsible for the post-baccalaureate programs that fall under their particular school, college or center. In most units, an Associate Dean for Graduate Education or Center Director is charged with overseeing the day-to-day operations of their respective post-baccalaureate programs. Finally, a Graduate Academic Affairs Committee (GAAC) is concerned with the development, improvement, and quality control of post-baccalaureate education at Saint Louis University.

GRADUATE EDUCATION CONTACTS

Philip O. Alderson, M.D.
Dean, Vice President, Medical Affairs, School of Medicine
palderso@slu.edu , 314.977.9801

Theodosios Alexander, Sc. D.
Dean, Parks College of Engineering, Aviation and Technology
talexander@slu.edu, 314.977.8203

Mark Arnold
Senior Associate Dean, John Cook School of Business
cvanslyk@slu.edu , 314.977.2476

Janet Barber, Ph.D.
Associate Dean, College of Arts and Sciences
barberjc@slu.edu, 314.977.2973

Fr. Michael Barber, S.J., Ph.D.
Dean, College of Arts and Sciences
barbermd@slu.edu, 314.977.3150

Jon Baris, J.D.
Assistant Dean for Student Services, School of Law
jbaris@slu.edu, 314.977.3675

Diana Bartelli Carlin, Ph.D.
Associate Vice President for Graduate Education
dcarlin1@slu.edu, 314.977.3718

Jeffrey Bishop, M.D.
Director of the Gnaegi Center for Health Care Ethics
jbisho12@slu.edu , 314.977.1060

Thomas E. Burroughs, Ph.D.
Executive Director for the Center for Outcomes Research (SLUCOR)
burroute@slu.edu, 314.977.9420

Beth Winfrey Freeburg, Ph.D.
Dean, School for Professional Studies
freeburgew@slu.edu, 314.977.2634

Elizabeth Gockel-Blessing, Ph.D.
Associate Dean for Graduate Education, Doisy College of Health Sciences
eblessin@slu.edu, 314.977.8691

John F. Hatton, D.M.D.,
Executive Director of the Center for Advanced Dental Education
hattonjf@slu.edu, 314.977.8353

Riyadh Hindi, Ph.D., P. Eng.
Director of Graduate Programs, Parks College of Engineering, Aviation and Technology
rhindi@slu.edu, 314.977.8547

Leslie Hinyard, Ph.D.
Associate Director for Academic Affairs, SLUCOR
hinyardl@slu.edu , 314.977.9473

Teri A. Murray, Ph.D., R.N.
Dean, School of Nursing
tmurray4@slu.edu, 314.977.8909

Elizabeth Pendo, Ph.D.
Associate Dean for Academic Affairs, School of Law
ependo@slu.edu, 314.977.2767

Michal Rozbicki, Ph.D.
Director of the Center for Intercultural Studies
rozbicmj@slu.edu, 314.977.2910

Ann Rule, Ph.D.
Interim Dean, College of Education and Public Service
ruleam@slu.edu, 314.977.2479

Scott Safranski, Ph.D.
Interim Dean, John Cook School of Business
safranskisr@slu.edu, 314.977.3833

Erica Salter, Ph.D.
Director of the Ph.D. program, Gnaegi Center for Health Care Ethics
esalter@slu.edu, 314.977.1060

Willis Samson, Ph.D.
Associate Dean of Graduate Education, School of Medicine
samsonwk@slu.edu, 314.977.8677

Darcell Scharff, Ph.D.
Associate Dean for Academic Affairs, College for Public Health & Social Justice
scharffd@slu.edu , 314.977.4009

Joanne K. Schneider, Ph.D., R.N.
Ph.D. Program Director, School of Nursing
schneijk@slu.edu, 314.977.8937

Mario Schootman, Ph.D.
Associate Dean for Research, School of Public Health and Social Justice
schootm@slu.edu , 314.977.8133

Joanne L. Thanavaro, Ph.D.
Associate Dean for Graduate Education, School of Nursing
jthanava@slu.edu, 314.977.8908

Edwin Trevathan, M.D., M.P.H.
Dean, College for Public Health & Social Justice
etrevath@slu.edu, 314.977.8188

Paul Vita, Ph.D.
Academic Dean, Madrid Campus
vitap@slu.edu, (+34) 91 554 5858

Mardell Wilson, Ed.D., RD, LDN
Dean, Doisy College of Health Sciences
ruebling@slu.edu, 314.977.8540

Michael Wolff, J.D.
Dean, School of Law
mwolff3@slu.edu, 314.977.2774

John Woolschlager, Ph.D.
Executive Director of the Center for Sustainability
jwoolsch@slu.edu, 314.977.5152

Alex Wulff, Ph.D.
Director, University Writing Services
wulffam@slu.edu, 314.977.3484

Hongxin (John) Zhao
Director of Ph.D. Program, John Cook School of Business
zhaox@slu.edu , 314.977.3834

Campus Resources and Services

ACADEMIC SUPPORT RESOURCES

Academic Support

Academic Support, a unit housed within the Student Success Center, strives to enhance the pursuit of lifelong learning, intellectual inquiry, and communication by fostering students' academic success and encouraging self-advocacy. While many services within Academic Support are targeted towards undergraduate learners, our unit assists post-baccalaureate students in the area(s) of academic coaching and tutoring for students in specific accelerated and/or professional programs (i.e. Physical Therapy, Occupational Therapy, Athletic Training and Accelerated Nursing).

Bookstores

Bookstores serving the University are located in the Busch Student Center on the Frost Campus, in the School of Medicine Building (Schwitalla Hall) on the Medical Center, and in Padre Rubio Hall on the Madrid Campus. Each bookstore stocks required and recommended textbooks, general reading materials, study aids, school supplies, clothing, gift items, and snacks.

Career Services

Career Services helps students and alumni explore meaningful careers over one's lifetime. They offer career counseling and career assessments to help students gain self-knowledge as it relates to the world of work. Career Services also helps students conduct an effective job search by critiquing resumes and cover letters, conducting mock interviews, helping students construct a job search plan, and teaching them how to use social media when searching for a job. They offer a variety of events throughout the academic year to connect students with employers, including their bi-annual Career and Graduate School Fair. CareerLink is the database that houses part-time and full-time jobs as well as on-campus jobs. All post-baccalaureate students are encouraged to connect with Career Services during their first year.

Center for Transformative Teaching Learning, The Paul C. Reinert, S.J.,

The Center for Transformative Teaching Learning (CTTL), located in Pius XII Library, was established on July 1, 1997, to reinforce Saint Louis University's commitment to quality teaching.

The Center provides a supportive learning environment for post-baccalaureate students and faculty to develop their instructional skills and individual pedagogical styles. Among the services offered by the Center are one-on-one teaching consultations, classroom observations, workshops and seminars on various teaching topics, and a portfolio retreat for full-time faculty. In collaboration with Graduate Education, the Center conducts the annual Graduate Assistant Orientation in August. A major activity of the Center continues to be the Certificate in University Teaching Skills, designed to help post-baccalaureate students develop as educators. Selected mentors and the Center staff guide participants through the program.

Disability Services

Saint Louis University is committed to supporting students and providing educational experiences through the facilitation of academic accommodations and services.

Disability Services partners with students, faculty, academic departments and service providers to facilitate equal access and opportunity to all University programs, services and experiences. We coordinate auxiliary aids and services to meet the needs of students with disabilities. Our goal is to create a safe and supportive campus community for students with disabilities. All inquiries about the availability of reasonable university-related accommodations are kept confidential, and should be addressed to Disability Services.

Students, faculty and staff are welcome to visit or contact us to receive information regarding services available, procedures, documentation, and best practices. Students with documented clinical or medical disabilities who anticipate needs for accommodations are encouraged to contact Disability Services at the earliest opportunity and must do so in order for the university to officially consider and recognize the need for reasonable accommodations.

All inquiries about the availability of reasonable university-related accommodations are kept confidential, and should be addressed to: disability_services@slu.edu, 314-977-3484, Fax: 314-977-3486, Busch Student Center, Suite 331, 20 North Grand Boulevard, St. Louis, MO 63103

Information about accommodations available for Madrid Campus students with disabilities is available at: counselingcenter-madrid@slu.edu.

English as a Second Language

The University offers programs that serve international students in their transition to the English language, North American culture, and higher education. SLU's English as a Second Language (ESL) program provide instruction at the high intermediate/advanced levels for students needing to improve their language skills in preparation for post-baccalaureate study. In addition, the ESL program offers instruction in research and writing for post-baccalaureate students. The program also evaluates English-language proficiency of all international students new to the University and recommends appropriate English instruction or skill-building activities as needed to support an academic program.

Instructional Technology

The Instructional Media Center, located in Xavier Hall Annex on the Frost Campus, provides the University with classroom-presentation equipment, student video-viewing cubicles, distance-learning support, and assistance for the production of audio-visual instructional materials in a "do-it-yourself" laboratory.

The Instructional Technology Center, located in the Caroline building on the Medical Center, also offers self-service multimedia viewing and materials production to students and faculty.

International Services, Office of

The Office of International Services has the goal of enriching the academic experience of the Saint Louis University campus in St. Louis and community through the promotion of a global perspective in the University's education programs and through the development of international education and exchange opportunities.

Services provided through International Services include assistance with applications and admissions, advising on immigration/visa concerns, support services for international student and scholars, study abroad programs and international student/scholar advocacy. The Center's services also include cultural and social activities and information on university policies and procedures. Orientation programs, the International Student Ambassador program, and the host-family program ease the transition for international students and scholars arriving at Saint Louis University.

Registrar, Office of the University

The Office of the University Registrar maintains the official academic records of Saint Louis University, including course registrations, grades, transcripts and diplomas. It also administers institutional academic policies and procedures related to academic records and classroom scheduling. In relation to the above functions the Office of the University Registrar processes all enrollment, degree and Veteran Administration certifications.

Student Success Center (SSC)

The Student Success Center, housed within the Division of Student Development, aids students in fulfilling their individual academic and career related goals by providing intentional, developmentally appropriate opportunities for self-reflection and discovery, encouraging experiential learning, and supporting students' discernment in vocational, personal and academic choices. With two convenient locations on campus (Busch Student Center, 331 and the School of Nursing Building, 114), students are able to meet with experienced staff skilled in the areas of promoting academic and career related success.

The SSC provides services that support the entire student population and alumni as they progress toward academic and professional goals, housing academic coaching, career services, academic advising, writing services, tutoring and Supplemental Instruction, disability services, and more. As educators focused on the holistic development of students, we integrate the core values-vocational discernment; commitment to lifelong learning; experiential learning; personal responsibility; meaningful relationships-in to each student interaction and into the design of each service or program.

University Libraries

Saint Louis University is home to four libraries: the Omer Poos Law Library, the Medical Center Library, the Pius XII Memorial Library, and the Vatican Film Library. A library also resides on the Madrid Campus. SLU-affiliated students and faculty have access to over 40,000 online databases, e-books, and other information in electronic format -- both within each library and remotely. Faculty, students, and staff can use all libraries. Each library has wireless access both within and outside each building.

Pius XII Memorial Library

Medical Center Library

Vincent C. Immel Law Library

Madrid Library

Special Collections
The world renowned Vatican Film Library and the University Archives, both located in Pius Library, provide extensive resources for research and study. The Archives focus on University history, Catholic and Jesuit history as it relates to the University, and the role of the University in the life and development of the St. Louis region. The Vatican Microfilm Collection consists of copies of most of the manuscript collection of the Vatican Library in Rome. Other special collections are available, both online and in print.

Writing Services

University Writing Services is available to all students. We are committed to improving student writing through one-on-one peer consultation, online writing consultations, writing workshops, writing groups, and Dissertation Writing Retreats. We want to help improve the culture of writing on SLU's campus and to help students identify themselves as writers within their respective disciplines. It is recommended that students make an appointment to see a writing consultant early in their careers to discuss writing goals and writing strategies. Longer writing projects require more support and University Writing Services can help students build an individualized writing plan, or form a writing group. Once students have an approved dissertation topic, our Dissertation Writing Retreats are a great way to build positive writing habits while writing a section of your dissertation.

FINANCIAL RESOURCES

Fellowships, Assistantships, and Scholarships

Saint Louis University's fellowship, assistantship, and scholarship programs are made possible through University resources, grants, individual donors, corporations, foundations, and alumni.

All graduate students holding appointments as Fellows, Trainees or Graduate Assistants are considered full-time regardless of the number of hours enrolled, (i.e., a student can have fewer than 9 hours while being fully funded). This means that a student does not have to use the full 18 or 21 hours allocated on an assistantship if the student does not need all of those hours. Dissertation, thesis, and project guidance hours can be divided into multiple semesters to reach the required hours.

International students on assistantships, fellowships or traineeships do not have to be enrolled 9 hours to meet visa requirements.

Graduate Assistantships

Saint Louis University in St. Louis offers three categories of graduate assistantships. The assistantships offered include a range of stipends, tuition scholarships, and health insurance coverage depending upon the degree level, the field of study, and the length of the appointment. Assistants spend at least 15, but no more than 20 hours per week performing assigned duties. All Assistants must be Classified post-baccalaureate students and remain in good standing. Assistants are expected to maintain a cumulative grade-point average of 3.00 during the academic year of appointment. If students' grade point average fall below a 3.00 during any portion of the academic year, students can be terminated by the department from the assistantship during that academic year.

Normally, the maximum number of years that students may hold an assistantship is two years while pursuing a Master's degree and five years in a Doctoral program. In the case of students pursuing the Master's and Doctoral degree in the same major field, eligibility for funding is also normally limited to five years. A third year of funding for the Master's (thesis option only) or a sixth year for the Doctoral degree is possible provided funding through the department in question is available and the criteria established by the respective college, school, or center are met. Appeals for extraordinary funding must be submitted by students' department during the spring semester of the second year of funding for the Master's or of the fifth year for the Doctorate to the Associate Dean for Graduate Education or the equivalent administrator of the particular college, school, or center. Refer to the Graduate Assistant Handbook for complete information on all assistantship and fellowship policies.

A *Graduate Teaching Assistant* may work with students in small groups, lead class discussions, monitor examinations and grade papers, help prepare lectures, conduct laboratory sessions, or even be responsible for a course as the primary instructor. Under the close supervision of the Faculty, teaching assistants concurrently develop teaching skills and a deeper understanding of the discipline.

A *Graduate Research Assistant* may be funded by the University or by an externally funded research project. In either case, students are assigned a range of duties such as library searches, field work, laboratory experiments, and preparation of grant applications and proposals so as to gain professional skills in research which complement post-baccalaureate education.

A *Graduate Assistant* performs other duties that are not primarily teaching or research. These duties may include clinical, advising, or administrative responsibilities that are inherently related to students' educational and career objectives.

All first-time Graduate Assistants must attend the Graduate Assistantship Orientation, which is offered before the beginning of the fall semester.

Madrid Campus Assistantships

Madrid Campus graduate assistantships take the form of tuition discounts only. These assistantships enable students to gain experience in areas of professional responsibility related to their field of study.

Presidential Fellowships

Presidential fellowships candidates are nominated by their programs and are awarded to newly accepted Master's or Doctoral level students who demonstrate outstanding scholastic achievement and potential for success in post-baccalaureate studies. These fellowships include a stipend for an eleven-month appointment as well as stipends for 21 credits of tuition scholarship and health insurance.

Diversity Fellowships

The Diversity Fellowship is designed to assist in achieving a more diverse population of students. This initiative is consistent with SLU's Mission Statement and with its commitment to making post-baccalaureate education more accessible to an inclusive variety of applicants. The Diversity Fellowship is awarded to a newly accepted Master's or doctoral student who has demonstrated outstanding scholastic achievement and potential for success in a program. These fellowships include a stipend for an eleven-month appointment as well as stipends for 21 credits of tuition scholarship and health insurance.

Dissertation Fellowships

Dissertation Fellowships are awarded via annual competitions to selected doctoral candidates. These fellowships include a stipend for a nine-month appointment as well as stipends for 12 credits of tuition scholarship and health insurance.

External Fellowships

Individual departments or programs may receive funding from sources external to the University that includes support of students. From such grants, students may be appointed to fellowships or traineeships consisting of stipends and full tuition scholarships with the academic approval of the Dean or Director of the particular college, school, or center. Trainees will be required to participate in training experiences as demanded by the grantor.

Health Sciences Graduate Fellowships

Awards made in the medical sciences include stipends and tuition scholarships. These appointments are usually made for one year, but satisfactory progress toward the degree may lead to reappointment.

Private Source Fellowships

Other fellowships are available from various agencies, professional organizations, foundations and corporations. Most of these awards may be taken by students to the institution where admission is granted. Listings of such awards may be found in a variety of reference materials published by, for example, the Superintendent of Documents, the National Science Foundation, the Department of Education, and the Council of Graduate Schools in Washington, DC, the National Institutes of Health in Bethesda, MD, and Peterson's Guides in Princeton, NJ.

Tuition Scholarships

Many programs have a limited number of tuition scholarships available for students. These scholarships are frequently reserved for students with serious financial need.

Student Loans

To learn about financial aid, visit the Student Financial Services website.

Federal and Bank-Funded Loan Programs

The Office of Student Financial Services administers federal and alternative bank-funded loan programs. Such programs are a cost-effective way to finance educational and living expenses. Most of these loans have low interest rates, and all defer repayment until after the completion of students' program of study. The Office of Student Financial Services encourages early application to better ensure funds availability for the academic terms for which the financial assistance is sought.

Short-Term Loan Fund

The USX Foundation has provided a loan fund to particularly help students meet expenses at the beginning of an academic term, for travel to scholarly meetings, or to provide assistance in emergencies. The maximum amount to be borrowed is $1,200, and, if repaid in 90 days, the loan is interest free. These funds are available on a first-come, first-served basis to Classified students who are U.S. citizens and in academic good standing. Ordinarily, these loans will be granted a maximum of three times provided the previous ones have been repaid.

STUDENT LIFE AND SERVICES

Athletics

Saint Louis University is a member of the National Collegiate Athletic Association (NCAA Division 1) and a member of the Atlantic 10 (A-10) Conference. Tickets are necessary for men's and women's basketball, men's and women's soccer, and volleyball games. Free tickets and reduced price tickets are available for students.

Billiken Bucks

Billiken Bucks is a debit account program that allows students to deposit money on account with Parking and Card Services. When purchases are made at campus dining facilities, coffee shops, convenience store, the bookstore and libraries students' ID cards are swiped, and the amount of the purchase is deducted from the account (Please note that the Billiken Bucks system is not available in Madrid).

Campus Ministry

Campus Ministry focuses on promoting the religious life of the University through liturgies, special events, retreats, service opportunities and sacramental preparation. Several programs are dedicated to post-baccalaureate students.

The Frost Campus offices are located in the Eckelkamp Center for Campus Ministry, immediately northwest of the Clock Tower. Priests and ministers of several denominations are available for spiritual direction and pastoral counseling including marriage counseling.

Dining Services

Saint Louis University contracts with an external vendor to provide University dining services to the staff, faculty, and students on the Frost Campus and Medical Center. Bannister House, located at 3824 Lindell, also provides breakfast, lunch, and catered meetings to faculty, staff, and alumni. The Frost Campus offers seven dining locations, and the Medical Center provides two locations. Fresh Gatherings, located in the Doisy College of Health Sciences building on the Medical Center, is run by the Department of Nutrition and Dietetics and offers locally grown, sustainable fare at a reasonable cost. Residence Dining Centers, located in Griesedieck, DeMattias, and Reinert Halls, feature an all-you-care-to-eat format.

University Dining Services offers a wide variety of flexible meal plans as an easy and convenient way to enjoy dining on campus. After purchasing a Meal Plan, the meal card may be used at any one of the three all-you-care-to-eat residence-dining locations and in the flex-dollars portion at any campus dining facility. The Commuter Plan is designed specifically for the non-residential students who want the convenience of an on-campus meal-plan.

Madrid's dining services, operated by Sodexo, includes the Unity cafeteria, located in San Ignacio Hall.

Graduate Student Association

The Graduate Student Association (GSA) represents all full-time and part-time students at Saint Louis University enrolled in post-baccalaureate programs whose departments are in good standing with the GSA per the GSA Bylaws. Elected officers govern the GSA, and its General Assembly consists of one representative from each degree program. In this way, the GSA is able to recognize interests and concerns across the wide spectrum of disciplines and serve as the focal point for the program's student concerns.

The GSA sponsors the annual Graduate Student Research Symposium that showcases student research, in paper and poster formats, throughout the University. Students may also apply for awards from the GSA for conference presentation and attendance, publication assistance, exam preparation, and summer research support towards thesis and dissertation preparation.

The GSA is affiliated with the National Association of Graduate and Professional Students (NAGPS) and is also a chartered member of the national graduate and professional student honor society, Alpha Epsilon Lambda. The Associate Vice President for Graduate Education serves as the faculty advisor to the GSA.

Housing and Residential Life

The Department of Housing and Residence Life (HRL) assists students in locating off-campus houses. The department maintains a listing of off-campus realtors, landlords and agencies within short distances of the University's campuses. Contact HRL at: reslife@slu.edu

The Office of Student Life at the Madrid Campus facilitates the placement of students in university-sponsored host families and provides information for those seeking other housing opportunities in Madrid. Contact Madrid Housing at: housing-madrid@slu.edu

Parking and Campus Travel

Parking facilities are provided at the Frost Campus and Medical Center for a fee. The Billiken Bus Line provides transportation within and between the Frost Campus and Medical Center while classes are in session. Vans and buses are available for private charter to students and faculty organizations.

Recreational Facilities

The Simon Recreational Center located in Frost Campus features a wide range of sport and recreation facilities, services, and programs. In addition, there is another weight and cardiovascular room located on the lower level of Salus Center on the Medical Center. All currently enrolled students are automatically members.

Outdoor recreational facilities include a softball field, a sand-volleyball court, three swimming pools, and a multipurpose intramural field. The park area at Compton and Laclede features a gazebo, walking path, and a lake for the enjoyment of the Saint Louis University community.

The new Medical Center Stadium, completed in 2011, is the on-campus home of SLU's Division I track and field team.

In Madrid, the Office of Student Life offers students fitness and recreational activities, from American football to scuba diving, including club sports, in which students are integrated into Madrid's community athletic leagues.

Student Health and Counseling Center

The Student Health and Counseling Center, located in Marchetti Towers East, is dedicated to maintaining and improving the overall health of the student community in St. Louis. This is accomplished through a broad spectrum of primary health services: medical, diagnostic, and clinical procedures, as well as a variety of educational and wellness programs. All Saint Louis University students are eligible to utilize the Student Health Center.

Should students need more extensive medical attention than can be given at the Student Health Center, they will be referred to SLUCare. Students in need of urgent care will be transported to Saint Louis University Hospital's Emergency Room, where a full range of medical services are available.

The Madrid Campus provides students registered for one or more credits with SANITAS Multi medical care during the length of each term. Coverage is extended to all cities and towns where SANITAS has duly authorized centers and/or participating physicians. When services included in the contract are not available in a given area, students are entitled to receive them in another area upon authorization from SANITAS.

Counseling services are available to all students in the Student Counseling Center also located in Marchetti Towers East. Counseling services are also available to all students in Madrid. Individual, group, and couples counseling are offered. Students may seek help for a variety of concerns including important decisions about personal life, dealing with depression or stress, coping with traumas such as divorce or death, physical, emotional or sexual abuse, date rape or rape, and dealing with alcohol, drug, or eating concerns. Counseling services are confidential.

University Health Plan

Saint Louis University requires full-time students to have basic health insurance. Unless you waive health insurance via the Health Insurance Waiver Form, you will be charged for coverage, for all semesters and/or terms in which you are registered, under the University Health Plan (UHP) health insurance plan sponsored by Saint Louis University. Participating students must complete the University Health Plan Enrollment Application Form. Summer coverage is not required.

Students at the Madrid Campus are not covered under this plan, nor are they charged for coverage. The Madrid Campus provides students registered for one or more credits with SANITAS medical care during the length of each term. Those registered in 0-credit courses should arrange for health insurance with the Finance Office in Madrid.

Academic Policies and Procedures

GENERAL POLICIES

Students must become familiar with the regulations of those of the chosen college, school, center, department and program. Students must accept responsibility for compliance with these regulations and for the consequences associated with noncompliance.

The University reserves the right to modify policies at any time to conform to professional changes in practice.

Categories of Students

Classified students have been admitted and matriculated through their particular College, school, or center to pursue advanced degrees and are advised by academic departments or their equivalents.

Unclassified students are not formally pursuing degrees or certificates. Such students may be completing prerequisites for subsequent degree pursuit or simply taking coursework for enrichment. The former group may be eligible for some categories of financial assistance available through the University, but the latter is not. Ordinarily, students may not remain in Unclassified status and be eligible for financial aid for more than two academic terms.

Probationary students are applicants for Classified admission who are temporarily assigned to this status because of deficits in their academic backgrounds. Tenure in Probationary status may not exceed twelve credits or one calendar year. Once students have advanced to Classified status, they may petition that coursework completed while in Probationary status, exclusive of eliminating any prerequisite deficiencies, may be accepted toward partial fulfillment of degree requirements. Students admitted under Probationary status are not eligible for University assistantships or fellowships.

Conditional Classified students are informally admitted, which permits them to initiate coursework prior to full approval of Classified status. Students are classified as Conditional when a required document which would complete the Classified application is missing. Ordinarily, students may remain in Conditional status for only one academic term. The coursework completed during that term may subsequently apply toward a degree. Students admitted conditionally may be offered an assistantship or fellowship but they must be advanced to classified status prior to the contract start date of their contract.

Certificate students either have been admitted directly into a certificate program or are already seeking an advanced degree and are pursuing a certificate concurrently. Students and their major field must understand that, although some completed, advanced, academic work will partially fulfill requirements for both certificate and degree, and some elective credits within the degree program may be assigned to the certificate, full completion of both sets of requirements may total credits in an amount greater than that required to earn the degree alone.

Auditors are students admitted into Unclassified status in a program and who enroll in non-academic credit coursework. Auditors are formally registered with the Office of the University Registrar in order to be recognized on their transcripts. They are expected to attend classes regularly but may not be responsible for assignments or examinations outlined in the petition for course audit. Email, library, and other privileges associated with classified status are granted to auditors. It is the decision of the college, schools and centers whether it is appropriate to permit their classified students to audit classes. In any case, students are permitted to audit a maximum of one course per semester, with a two-course audit limit within a degree program.

Visitors are students temporarily admitted for the Summer Sessions at the Frost Campus. Visitors must secure department or program permission for entry into desired courses. Visitors are not required to formally apply, but the Dean or Director of their particular college, school, or center must admit them.

Faculty of Saint Louis University may be admitted and register as Unclassified students. Faculty holding the rank of Assistant Professor or higher, except librarians with equivalent rank, ordinarily not be granted Classified status toward pursuit of advanced degrees. Requests for exception to this regulation must be initiated with the Associate Dean or Director for Graduate Education or Center Director of the particular College, school, or center.

Full-time Status is defined as nine or more semester hours in formal (for credit) courses and/or the following criteria for establishing status: All graduate students holding appointments as Fellows, Trainees or Graduate Assistants are considered full-time regardless of the number of hours enrolled, (i.e., a student can have fewer than 9 hours while being fully funded) (see Financial Resources policy); all graduate students registered for Special Study for Examinations are considered full-time; and/or all graduate students registered for 1 or more hours of thesis, dissertation research, or project guidance (599/699/696) are considered full-time. Graduate Education policy requires that students be enrolled in at least one hour of dissertation credit upon achieving candidacy until completion of 12 hours.

Immunization Policy

All Classified students at the Frost Campus and Medical Center must comply with the University's immunization policy. All incoming students must complete and submit the Student Immunization Record form, which is located on the Graduate Admission Website.

Multidisciplinary Doctoral Option

After having been formally and unconditionally admitted into an existing Ph.D. degree program and initiating doctoral studies, the Classified students may decide to petition for transfer into the Multidisciplinary Doctoral Option. Because the availability of academic resources to support a multidisciplinary program must be critically investigated and reviewed, the Associate Dean or Center Director reserves final approval of this option. The Multidisciplinary Option is not available at the Master's level or toward another advanced degree.

To begin the transfer process, students prepare a draft of a proposal that describes the multidisciplinary program envisioned. The title of the multidisciplinary program must be distinctly different from the departments and major fields of doctoral study at Saint Louis University. In particular, the draft must contain the rationale for the transfer, the full complement of applicable, post-baccalaureate academic work proposed, i.e. that already completed as well as the work yet to be taken, and the general area of dissertation research. With the proposal draft in hand, students proceed to select minimally five members of the Graduate Faculty to serve as a committee that, in effect, becomes the department or major field. To serve on the committee or not is the invited faculty member's option. A proposed chairperson of the committee is designated. At least one, and preferably a minimum of two, members of the committee must have authorization to direct doctoral dissertations (i.e. Mentor Status).

A formal petition to transfer into the option, signed individually by all of the proposed committee members, must be submitted to the Associate Dean(s) and/or Center Director(s) and the Associate Vice President for Graduate Education. The petition with appropriate supporting documentation from students' academic file is then transmitted to the proposed committee chairperson for evaluation of the preparedness for and potential for academic success in the envisioned program. By this time the proposal draft should have been critiqued by the committee and subsequently revised to reflect their evaluative comments.

If the recommendation from the proposed committee chairperson for approval of the transfer is positive, the petition (including the proposal) is reviewed by the Graduate Academic Affair Committee (GAAC). The Associate Vice President for Graduate Education is the liaison to GAAC on behalf of students, who should meet with the liaison at least once before GAAC considers the petition and proposal. The entire course of study will be reviewed toward approval by the Associate Vice President for Graduate Education. GAAC may annually review each multidisciplinary doctoral program and the progress therein, and make recommendations to the Associate Vice President for Graduate Education.

In addition to coursework, the program must include written and oral preliminary degree examinations to be administered by the committee in accordance with Graduate Education policy and regulations. Research-tool requirements are to be set as appropriate. The rules and regulations for advancement to candidacy also must be followed by students pursuing this doctoral option.

Payment of Tuition and Fees

Tuition and fees are subject to change. Please see the complete list of tuition, fees and Study Abroad rates for the 2014-2015 academic year listed on the Office of Student Financial Services webpage.

Payment of tuition, fees, and deposits (not covered by financial aid awards) must be made after registration for classes. Initial billing statements are mailed to students' permanent address by the Office of Student Financial Services. Subsequent billing statements will be mailed to students' local address, or, if specified, the permanent billing address. For additional information about payment arrangements see Office of Student Financial Services.

For the schedule of Madrid Campus tuition, fees, payment and refund information, see
http://spain.slu.edu/admissions/tuition_and_fees.html.

Student Financial Responsibility

Students are not officially registered until payment or a satisfactory arrangement for payment has been made. All indebtedness to the University must be cleared promptly. Student account balances that are past due result in electronic "holds" that block future registrations and deny the issuance of official transcripts. No refund or reduction is allowed for absences.

ACADEMIC STANDARDS

Academic Appeals

As a general policy, appeals to academic decision should first be made to the faculty member or faculty committee involved and, if necessary thereafter, to the department or program chairperson, the Associate Dean or Center Director of the particular college, school, or center, and the Dean, in that order. Should students wish to pursue an additional level of appeal, the case is taken to the Associate Vice President for Graduate Education who reviews the file to determine if the process was followed. The Associate Vice President does not overturn a decision, but may send the case back to the college, school, or center if process was not followed.

Academic Integrity/Ethical Behavior

The University is a community of learning, and its effectiveness requires an environment of mutual trust and integrity. As members of this community, students share with faculty and administrators the responsibility to maintain this environment. Academic integrity is violated by any dishonesty in submitting an assignment, test, research report, or any other documentation required to validate student learning. In a case of clear indication of such dishonesty, the faculty member or administrator has the responsibility to apply sanctions to protect the environment of integrity.

Although not all forms of academic dishonesty are given here, the instances listed below should be seen as actions that violate academic integrity:

- Soliciting, receiving, or providing any unauthorized assistance in the completion of any work submitted;
- Copying from another student;
- Using electronic devices to share information during an exam;
- Copying from a book or class notes during a closed-book exam;
- Submitting materials authored by or editorially revised by another person but represented as their own work;
- Copying a passage or text directly from a published source without appropriately citing/recognizing that source;
- Taking a test or doing an assignment or other academic work for another student;
- Securing or supplying in advance a copy of an examination without the knowledge or consent of the instructor;
- Falsifying or fabricating research data

Any clear violation of academic integrity will be met with sanctions. In a case of dishonesty within a course, the instructor may assign an appropriate grade and/or recommend further sanctions to the Dean, Associate Dean, or Center Director of the particular college, school, or center, who is then responsible for the final decision and notification of all associated parties. The final decision of the Dean, Associate Dean or Center Director may be appealed as described in "Procedures for Academic Appeals."

Ethical behavior is also expected of students and faculty in the academic setting and extending into professional life. Sexual harassment will not be tolerated and will be sanctioned. Most disciplines require their students to complete an ethics requirement within the curriculum. Coursework or other training in ethical research is required of academic personnel involved in traineeship and investigative programs funded by a number of federal and other agencies.

Click here for SLU's latest Codes of Student Conduct

Academic Progress/Ordinary Time Periods to Degree

The ordinary time period to degree for Classified students begins at the start of the academic term when the first course is taken to be included in the degree program. Accordingly, revision of the start of the time period is possible after matriculation if a course taken in Unclassified status becomes part of the degree program through a successful petition to do so.

For students pursuing a Master's degree, the ordinary time period to the degree is five years, and eight for the doctorate directly from the baccalaureate. For students pursuing the doctorate, having previously been awarded a Master's degree in the same or a comparable major field, the ordinary time-period to degree is seven years. A maximum of two extensions beyond the ordinary time to degree will be allowed.

Academic Record

A transcript is a copy of the permanent record, certified by the Office of the University Registrar. The permanent record at the University shows the courses taken, grades received, cumulative grade point average, academic work taken elsewhere that has been approved for transfer into a degree program and all degrees and certificates earned.

Academic Work

Academic work designated by course numbering 500-900 is, by definition, offered for "post-baccalaureate credit." To the extent applicable, students may obtain credit toward degrees for limited numbers of credits in courses numbered 400 (upper-division, undergraduate) courses. Limitations are given in the subsequent section on "Graduation Requirements."

Annual Reviews

All master's and doctoral students must undergo an annual review of their progress, although a department or program may require reviews on a more frequent basis. The manner in which the review is conducted is determined by students' department or program. Departments and programs will be required to file a copy of their review process with their appropriate Graduate Dean or Director and with the Office of Graduate Education. Copies of individual student reviews will be kept in the department or program office. A summary report of the results of annual reviews of all students in each department and program must be submitted to the appropriate dean or director of the college, school, or center.

Change of Grade

All changes of assigned grades are subject to a statute of limitations of one year from the end of the term in which the course was completed. Appeals of this statute of limitations may be made to the Dean of a college, school, or center, must be made in writing by students and faculty involved and provide substantive documentation of the reasons for the appeal.

Course Extension (Incomplete Course)

To receive additional time to complete a course, students must:

1. Submit completed Petition for Course Completion Extension and
2. Receive approval by the instructor.

Students must complete the course work by the approved deadline, which cannot be longer than one year after the course's final grades were due.

Two exceptions are:

1. Incomplete courses in prerequisite courses must be completed and graded prior to the first meeting for which the course is a prerequisite.
2. Incomplete courses for graduating students must be completed and graded 30 calendar days after the conferral date.

An Incomplete Course will be awarded a grade of "F", by the Office of the University Registrar, if the course is not completed by the approved deadline.

Good Academic Standing and Academic Probation

Classified students are in good academic standing when they is making progress toward a degree within the time period established for that degree. Students will not be advanced to candidacy or be eligible to graduate or continue an assistantship while not in good academic standing. Candidacy is achieved after passing the oral exam, regardless of whether the prospectus is part of the exam.

Students are not in good standing if any of the following conditions are true:

- They are on academic probation
- Their transcripts reflect more than 2 incomplete grades
- Their time to degree has expired
- They have been placed under temporary suspension for academic deficiencies or misconduct
- They have been formally dismissed from the University

If the cumulative grade point average of Classified students falls below 3.00 (on the four-point scale, "B" = 3.0), students are automatically placed on academic probation (not to be confused with Probationary admission). To continue degree pursuit, students must progress toward a 3.00 cumulative average and are expected to emerge from academic probation within nine credits or two successive academic terms during which coursework registrations are recorded. Students may not be advanced to candidate status while on academic probation.

In general, doctoral students are expected to complete academic work at the "B+" level. A limited number of credits in which the grade of "C" or "D" is earned may or may not be accepted toward a degree at the discretion of the individual department or program. The Classified student's cumulative grade point average in academic work presented to fulfill degree requirements must be at least 3.0.

Each college, school, and center is responsible for establishing specific policies and procedures regarding the placement of, monitoring of and subsequent dismissals associated with Academic Probation at the program and university levels.

Grade Point Average (GPA)

The School of Law students' cumulative grade point average (GPA) is determined by dividing the total quality points earned by the total grade point average credits attempted, and truncating at three digits to the right of the decimal point.

All other post-baccalaureate (non-School of Law) students' cumulative grade point average (GPA) is determined by dividing the total quality points earned by the total grade point average credits attempted, and rounding at two digits to the right of the decimal point.

All grades for which quality points are indicated in the "Grading Scale" are included in the cumulative grade point average, except grades for excluded repeat courses; see the Repeating Course Policy for additional information.

Note: Courses transferred from other colleges/universities do not have quality points assigned; therefore do not apply toward students' grade point average.

Grade Reports

Students may access their final grades through Banner Self-Service via MySLU.slu.edu. In addition to grades for each course, the report shows cumulative quality data for the term and for all post-baccalaureate work taken to date. Students typically do not receive mid-term grades.

Grading Scale

The post-baccalaureate grading scale follows a 0 - 4.00 point scale.

Quality Points for grades are assigned as follows:

A+	4.00 (School of Law Only)
A	4.00
A-	3.70
B+	3.30
B	3.00
B-	2.70
C+	2.30
C	2.00
C-	1.70
D	1.00
F	0.00

The following grades are not awarded quality points and therefore are not calculated in students' cumulative grade point average.

IP	In Progress
NP	No Pass
P	Pass
S	Satisfactory
U	Unsatisfactory

The following course statuses are recorded on the academic transcript, but are not grades. There are no quality points associated and therefore have no impact on students' cumulative grade point average.

AU	Audit. (See Course Audit policy for additional information)
I	Course work incomplete. See Incomplete Course policy for additional information.
W	Withdrawal. Please see Withdrawal policy for additional information.

Toward fulfillment of the credits required for Thesis or Dissertation Research or Project Guidance, the grade of "S" may be assigned only once: at the close of the final academic term during which students have completed both the credit requirement and the thesis/dissertation/project itself. At the close of a prior term, if progress has been made, the "IP" grade is appropriate. When a "U" grade is assigned, no credit toward fulfillment of the credit requirement is earned. Adjacent to a Special-Study-for-Examinations entry in student records, "IP," "S," and "U" indicate that the exam was not taken, was passed, and was failed, respectively. None of these three grades affects the term or cumulative grade point average.

Repeating Courses

All repeated courses and grades will be recorded on the academic transcript.

The following courses are excluded from the Repeating Courses policy listed below: All School of Law courses, Special Topics, Independent Studies, Internships, and Clinical Learning Experiences.

Only the most recent course grade will be included in the grade point average and noted as "Included".

Previous courses will be noted as "Excluded" and will:

1. Not be awarded quality points and therefore not be calculated in students' cumulative grade point average
2. Not be included in cumulative earned credit totals,
3. Not apply toward graduation requirements.

Note: Students receiving financial aid need to verify with the Office of Student Financial Services whether repeating a course will affect their eligibility status.

Federal law limits the number of times students may repeat a course and receive Title IV financial aid for that course.

- Students may receive Title IV aid when repeating a course that was previously failed (received a 0.0 or No pass), regardless of the number of times the course was attempted and failed.
- Students may receive Title IV aid to repeat a previously passed course one additional time.
- Once students have completed any course twice with a passing grade, they are no longer eligible to receive Title IV aid for that course.
- If students repeat a course that is not Title IV aid eligible, a recalculation of Title IV aid is done to exclude the credits for the repeated course.
- This rule applies whether or not students received aid for earlier enrollments in the course.

Suspension/Dismissal

Students who are judged guilty of an act of serious academic dishonesty may be suspended for a specified time period or dismissed altogether. Suspension or dismissal may also be warranted for other reasons not listed above, e.g., unauthorized solicitation or distribution of controlled substances, endangering one's self or another person, or abusing alcohol or illicit drugs. Reports of such actions may come from nonacademic staff, faculty, administrators, or other students. Such reports are to be directed to the Dean, Associate Deans or Center Director of the particular college, school, or center. Each college, school, and center is responsible for establishing specific policies and procedures regarding the placement of, monitoring of suspensions/dismissals at the program and university levels.

ADMISSION POLICIES

A viable applicant must possess, minimally, a baccalaureate degree or the equivalent from a regionally accredited, recognized college or university at the time of matriculation. The prerequisite expected by a discipline is the equivalent of an undergraduate area of concentration as understood at Saint Louis University: a sequence of eighteen or more credits of upper-division (advanced undergraduate) courses. In disciplines where no corresponding undergraduate major exists, the prerequisite requirement may be expressed in an alternative manner.

Decisions regarding acceptance into a program will not be made on the basis of the length of the degree program students have completed, but rather on the applicant's preparation to pursue post-baccalaureate work in the discipline.

Admission Procedures

Applications for all classified programs must be submitted electronically.

The following application documents are required:

1. Application form with accompanying application fee
2. Official transcripts from all colleges and universities attended
3. If the GRE score is required, students must have an official score submitted by Educational Testing Service (ETS). Certain programs also accept: GMAT, LSAT, MAT, or MCAT.
4. Three letters of recommendation (preferably from recent instructors)
5. Resume or Curriculum Vitae (C.V.)
6. Professional goal statement
7. Possibly other specific documents, as required by the major field

If Classified or Certificate status is sought, the desired major field or program must be indicated. An area of concentration or specialization may be requested.

The completed Classified or Certificate application form with the application fee must be submitted before the deadline set by the department or program. If an earlier date is not specified, the general deadlines are as follows: Summer: April 1; Fall: July 1; Spring: November 1.

Each application for Classified status is evaluated initially by an admissions committee in the proposed major field. The Associate Dean or Director for Graduate Education of the particular college, school, or center receives the recommendation(s) of the committee(s) and is responsible for making the final decision.

NOTE: Academic records, in English translation, of students who have undertaken postsecondary studies outside the United States must include the courses taken and/or lectures attended, hours of practical laboratory work, the maximum and minimum grades attainable, the grades earned or the results of all end-of-term examinations, and any honors or degrees received. WES and ECE transcripts are accepted as well.

ETS® Personal Potential Index (PPI)

The PPI is a third-party evaluative tool administered by the ETS (Educational Testing Service) organization (www.ets.org/ppi/). Some departments require that new applicants also complete the PPI as part of their admission application. Other departments recommend that new applicants consider using it. Please see the department's website for more information.

International Applicants

All international applicants must submit an English proficiency exam score from one of the following: Test of English as a Foreign Language (TOEFL), International English Language Testing System (IELTS) or Pearson's Test of English (PTE) to Saint Louis University. Exemptions are: English is the official language of the applicant's country and the applicant has a degree from an English speaking institution

Saint Louis University recommends the following minimum scores:

- 550 on the paper-based TOEFL (PBT)
- 80 on the computer-based TOEFL (IBT),
- 6.5 on the IELTS, or
- 54 on the PTE

This policy emphasizes that the scores listed above indicate a minimum level of English and do not guarantee the applicant will have a command of spoken and written English; therefore international students enrolling at Saint Louis University will be required to take the Saint Louis University Writing Evaluation (SLUWE) during International Orientation. The admitting department may make exemptions to the SLUWE requirement.

Students scoring a 4+ on the SLUWE meet all English proficiency requirements. Students not scoring a 4+ are required to follow the recommendations by the English as a Second Language department. These recommendations may range from exemption from ESL courses, to concurrent enrollment in ESL and a program, or full-time enrollment in ESL with no registration in graduate-level work until the desired level of English has been achieved. Individual programs may decide to set higher minimums based on the level of English proficiency needed for their respective course of studies.

Ordinarily, international applicants may not be admitted to Unclassified status. Documents are required of them that present evidence of visa eligibility and certification of financial support for the full period of study. The Office of International Services provides assistance for international applicants.

Re-application

Accepted Classified applicants must register for degree work at Saint Louis University within two calendar years (less in some fields) of the original acceptance. If Classified students have registered at least once for coursework, and if more than two years have elapsed since the last registration, students will be required to re-apply for admission. The fee for re-application is $20.00.

Transfer of Credit

Classified students are expected to complete most degree requirements through SLU courses, but some advanced work taken elsewhere may be transferred, subject to specific university, college, school, or center restrictions. Students must initiate a petition and have an official transcript of the work proposed for transfer forwarded to their college, school, or center. The advisor and department make a recommendation on the petition form, and the final decision rests with the Associate Dean, Director for Graduate Education or Center Director of the particular college, school, or center. Such a petition will not receive consideration until students have completed a minimum of six credits toward their program.

Ordinarily, work completed elsewhere more than five years prior to the beginning of the current program will not be approved for transfer into the current program. For a course to qualify for transfer, the course must be applicable for inclusion in the advanced degree program and in the present discipline at the accredited institution where it was taken. The grade received must have been B (3.00 on a 4.00 scale) or higher. Courses taken on a Credit/No Credit or Pass/Fail basis ordinarily will not be considered for transfer. The Office of the University Registrar documents final approvals of transfer of credit in the permanent record.

Master's students must complete a minimum of 80% of the advanced work through SLU. For example, within a 30 credit Master's program, a maximum of six credits of work (20%) may be approved for transfer toward fulfillment of degree requirements. Course work that was part of a Master's degree program completed elsewhere will not be approved for transfer, i.e., the same course may not be "double counted" in two separate Master's degree programs. Similarly, a post-baccalaureate course taken in partial fulfillment of undergraduate degree requirements may not also be included in a post-baccalaureate degree program unless specified otherwise by a college, school, center, or program.

Ph.D. students must also complete a minimum of 80% or, if matriculating as post-Master's students, at least 24 credits of post-baccalaureate work through SLU in preparation for and in anticipation of preliminary degree examinations. Ed.D. students must complete at least 38 credits of credit through SLU. Students admitted for doctoral study, having previously completed a Master's degree in the same or a comparable major field, may expect at least a portion of that prior work to be recognized as contributing to the overall advanced preparation for the doctorate, giving students Advanced Standing.

CADE Admission Deposit

All incoming students in the Center for Advanced Dental Education programs are required to make a deposit of $1,000, applicable toward tuition for the first one-half year, to hold places in the classes.

MATRICULATION POLICIES

Continuous Enrollment

Matriculated Classified students must maintain continuous enrollment during each nine-month academic year until graduation. The academic department determines whether or not students must also enroll each summer. Alternatively, students in summers-only programs must register every summer until degree requirements are fully completed. Students violating the mandatory continuous-enrollment policy must pay a fee/penalty determined by the number of consecutive semesters not enrolled. If students do not enroll for a period of two years or longer, a new application for admission will be required along with a $20 application fee.

Classified students may formalize an interruption in progress towards a degree by petitioning for a leave of absence (see leave of absence policy).

Leave of Absence

School of Law students must submit requests for a leave of absence in writing to the Dean of Students in the School of Law.

For all other students (non-School of Law) to be placed on a leave of absence they must:

1. Submit completed Petition for Leave of Absence and
2. Receive approval by their college, school, or center.

During the leave of absence, students:

1. Retain the graduation requirements from the Graduate Education Catalog of their year of admission,
2. Retain their SLU.EDU email account, access to mySLU.slu.edu and access to the libraries.
3. Do not violate the continuous enrollment policy.
4. Do not have enrollment status for purposes of health insurance or federal loan deferment,
5. Are not eligible to reside on campus or attend classes.

A leave of absence may be requested only for future terms. Students withdrawing from the current term after the add/drop period should refer to the Withdrawal Policy.

International students must consult with the Office of International Services concerning conditions of their visas.

Unless approved, students attending another institution will have their leave of absence revoked and therefore will be required to reapply to Saint Louis University in order to return.

Changing Program

Classified students may petition to change the degree sought or concentration. The Petition to Amend the Graduate Program is the proper document for such a request. Note that a new classified application is generally required to change major fields. Students may also petition to continue doctoral study immediately upon completion of a Master's degree in the same major field. The Petition for Admission into a Doctoral Degree Program is required in this instance. Petitions are made to the college, school, or center.

Parental Leave Policy

The Parental Leave Policy will provide relief of all full-time duties including research, teaching responsibilities, and comprehensive or candidacy examinations for 6 weeks following childbirth or adoption. It is mandatory for students on an approved parental leave to maintain continuous enrollment during the leave period. The nature of the coursework is to be determined in consultation with the advisor.

Should students require additional relief of duties beyond the approved parental leave period, students must petition for a leave of absence, as described in the Leave of Absence policy. Students on an approved parental leave will continue to have access to University resources (e.g., e-mail, library privileges).

To be eligible for this benefit, students must be enrolled as full-time post-baccalaureate students in either a master's or doctoral program; be in good standing with their academic department; and be the primary caregiver to a newborn or adopted child. If both parents are eligible students, only one parent (the primary caregiver) may apply for the parental leave.

Students must submit a Petition for Graduate Student Parental Leave to their advisor at least 60 days prior to the expected start of the leave period; exceptions to the rule will only be made in cases of exceptional circumstances. Students on an assistantship or fellowship must submit an additional document that details the impact of and accommodations needed for the leave. Students are required to be enrolled during a leave period in order to receive benefits. Parental leaves must be approved by students' mentor or advisor, the academic department chair, the appropriate college, school, or center administrator (e.g. Associate Dean for Graduate Education), and the Associate Vice President for Graduate Education.

Students Receiving University Funding Support

Students receiving University support for health insurance will continue to receive full insurance coverage paid by the University throughout the duration of the parental leave period.

Tuition scholarships for students on an approved parental leave will be continued during the leave period as necessary.

Students receiving an assistantship stipend will be guaranteed the continuation of their stipend for the first 6 weeks of the leave period, provided those weeks fall within the contracted period of the assistantship. Thereafter, continued funding during the leave period will be at the discretion of the department chair and dean, in consultation with students' advisor.

Students receiving a University fellowship will be guaranteed the continuation of their stipend for the 6 weeks of the leave period, provided those weeks fall within the contracted period of the fellowship. Thereafter, continued funding during the leave period will be at the discretion of the Associate Vice President for Graduate Education, in consultation with students' advisor.

REGISTRATION

Registration periods for courses and other academic work are scheduled by the Office of the University Registrar. Students are expected to self-register for all needed courses during the appropriate registration period.

Students enrolling during this period and thereafter are expected to complete the entire process, including the making of financial arrangements with the Office of Student Financial Services.

Changes in Registrations

No fee is assessed for a change in registration. Generally, academic work may not be added to or substituted within a program for the term or session subsequent to the second full week of classes for the semester. More stringent time-lines exist during the Summer Sessions.

The deadline for dropping a class without a "W" appearing on the transcript will be Friday of the second week of the semester for a full semester course.

Students who fail to complete a Change of Registration form, and withdraw without authorization from a course or the University will be graded based on the grading procedures listed in the course syllabi.

Course Audit

Classified students must be approved to audit a course by the academic unit offering the course and student's home department A petition for course audit (Registrar's Form #3) is available from the Office of the University Registrar, must be completed for each such enrollment. The tuition charge for auditing a course in the School of Law is the standard tuition rate while the tuition rate for all other colleges/schools/centers is $50 per credit. Students will not receive academic credit for a course taken on an audit basis and therefore the course will not count toward attempted credits, earned credits or graduation requirements. Enrollment in audit courses will be indicated on academic transcripts as a grade of 'AU'.

If the conditions authorized in the Petition for Course Audit are not met, the instructor may request an authorized withdrawal. A course registered for credit may be changed to audit only through the second week of class. A course registered for audit may be changed to credit only through the second week of class.

Late Registration

Late registration begins on the first day of classes and extends through the end of the first week of the semester. Students registering for the first time during or after the late registration period will incur a late registration fee of $50

Course registration made during the registration period will be canceled if there is a balance due and financial arrangements are not made.

Holds on Registration

The University may block the registration of matriculated students by placing an academic hold on their record for one of several reasons (e.g. non-payment of tuition, library books not returned, violation of the mandatory continuous-enrollment requirement, expiration of time to degree, etc).

Research-Phase Registrations

Toward completion of requirements for a research degree, Master's level students must enroll in six credits of Thesis Research. Accumulation of these credits may begin after students have completed the equivalent of one full-time semester. Ph.D. students must accumulate 12 credits of Dissertation Research, Ed.D. students three credits of Project Guidance, and D.N.P. students 3 credits of Clinical & Capstone project. Students are encouraged to distribute research registrations over several academic terms, taking numbers of credits per term commensurate with the anticipated intensity of research involvement.

Ordinarily, the minimum research registration for an academic term is one credit. Zero credit registrations in Thesis, Dissertation Research, Project Guidance, or Clinical & Capstone project are allowed only after the required credits have been accumulated (within the ordinary or extended time-to-degree period).

If a student's research-degree degree program becomes protracted such that an extension of the ordinary time-to-degree period is necessary, approval of the extension ordinarily will include a requirement for enrollment in additional research credits (or additional Project Guidance credits for students pursuing Ed.D. degrees).

Students may not take additional research credits unless they are required.

Zero-Credit Registrations

Classified students may include in the program for the academic term one or more zero credit registrations. Often a journal club or colloquia registration, and in some instances practicum or internship enrollments, may be for zero credit. Students may be preparing for language or degree-examination(s), or may have taken the required total number of credits of Thesis or Dissertation Research within the ordinary time period to complete all degree requirements. Students may be completing the requirements for coursework that was initiated during a previous academic term. Some zero-credit registrations, coded by 5CR and 6CR or 595 and 695, are each permitted no more than twice during a degree program. Any registration, even if for zero credits, enables students to have access to the academic resources of the University.

Registrations of Undergraduates in Graduate Coursework

SLU undergraduate, degree-seeking students may be permitted to enroll in 500 or 600-level coursework provided that specific conditions are met. First, the student must hold senior standing and have the majority of the major requirements already fulfilled. Second, prerequisites for each course in question must have been completed. Third, the student's cumulative GPA must be minimally 2.7 on a 4-point scale. Fourth, the total enrollment for the semester (or summer sessions) may not exceed 15 (six) credit hours with not more than six (three) credits in 500 or 600-level work. To be granted permission to take graduate coursework, the undergraduate must complete a formal petitioning process during which approvals of the course instructor, the student's major advisor, the undergraduate Dean, and the Associate Dean or Director for Graduate Education of the particular school/college/center are obtained.

As part of the petitioning process, the student must indicate that the graduate coursework is to be taken either to partially fulfill requirements for the baccalaureate degree or for "advanced graduate credit." In the latter case, all major requirements must have been fulfilled. Approval to take and successful completion of the coursework do not, of themselves, guarantee the student admission into the applicable advanced degree program or, in any way, amend the ordinary process of making application for Classified status.

Withdrawing from a Course, Term Work, or the University

Students are responsible for formal withdrawals from individual courses or other registrations.

Refunds: Fall and Spring Semesters

Time of Withdrawal as approved by the college, school, or center administrator	**Percentage of Tuition**
First Week of Classes	100%
Second Week of Classes	100%
Third Week of Classes	90%
Fourth Week of Classes	80%
Fifth Week of Classes	70%
After Fifth Week of Classes	0%

For withdrawal/refund policies for the following programs, please contact the following:
School of Medicine: (314) 977-9840, http://medschool.slu.edu/sfs/
School For Professional Studies: (314) 977-2330, http://www.slu.edu/x11121.xml
Madrid Campus: http://spain.slu.edu/admissions/tuition_and_fees.html

If students and/or students' parent are receiving federal financial aid for the term of enrollment, a prorated refund schedule applies. Consult the Office of Student Financial Services for information.

Fees are not refunded in the case of withdrawal for any reason. Residence Hall charges will be refunded in accordance with the residence contract.

Withdrawal from an individual course (Registrar's Form #8) or from the entire program of studies for an academic term (Registrar's Form #9) must be undertaken formally by students and requires completion of the appropriate withdrawal petition and a Change-of-Registration form to drop enrollment(s); all forms are available on the Office of the University Registrar's Forms page. Formalization of a withdrawal may entitle students to a partial refund of tuition paid. Separate policies exist for students developing substantial physical or mental health problems or who are called to active U.S. military duty during the academic term. Those policy statements are available from the Office of the University Registrar.

Depending upon the reason for or the date of withdrawal, the registration(s) in question may be erased from the permanent record or a withdrawal indicator ("W") may be placed in the grade field(s) in their record. Ordinarily, withdrawals are not permitted after mid-term.

In addition to filing the Registrar's form, students on an assistantship appointment must submit a letter of resignation through the academic unit to which service is rendered to the Associate Dean for Graduate Education or center Director of the particular college, school, or center. Classified students withdrawing entirely (or taking a formal leave of absence) from a program is required to submit a letter of resignation (or a petition for a leave), routing the letter or petition through the major field and to the Associate Dean for Graduate Education or Center Director of the particular college, school, or center.

GRADUATION REQUIREMENTS AND POLICIES

The mere literal fulfillment of coursework requirements does not automatically guarantee advancement to candidate status in a particular program.

Master's Degrees

The general and minimum requirements for Master's degree study are explained below. For some Master's degree programs the requirements are more extensive and are given and explained in the Curricula and Courses section of this catalog and in their program handbook.

Courses

A minimum of 30 credits of academic work is required. For students pursuing the research option, six of the total credits to the degree must be in Thesis Research. The program of studies must form a united and coordinated whole, embracing a major field subject.

In research-degree programs, no less than half of the total credits required (exclusive of Thesis Research) must be in the major field. All of the work must be of distinctly advanced character. The University will permit some 400-level undergraduate courses to be included in the degree program. However, the maximum allowable total credits of such coursework are ten. Also, at least half of the work in the major field (again, exclusive of Thesis Research) must be strictly post-baccalaureate (500, 600, or 700) level.

Non-research degree programs may be planned with somewhat greater flexibility. A minimum of 30% of the credits must be in the major field and half of the total program must be directly related to the major field. Again, no more than ten credits in total may be taken at the 400 level.

Ordinarily, no Master's degree program may include more than six credits in Research Topics (597) or Graduate Reading (598), or a combination thereof. Master's degree students may not enroll in tutorials carrying the course-numbers 497 or 498.

Research-Tools Requirement

Individual Master's degree programs may have a requirement of translation proficiency in a foreign language, statistics, computer literacy, or the like. Students seeking translation skills are encouraged to enroll in courses in the Department of Modern and Classical Languages designed specifically for them. Research-tool proficiency may be demonstrated through examination if permitted by the major field. Arrangements for administration of such an exam are the responsibility of the major field.

Graduation Requirements

Master's degree students anticipating the final academic term at SLU must file an application for degree. The application must be completed, by a set date in that final term. Subsequently, students receive a degree audit that includes information to be reviewed and checked by students and their advisor. If a research degree is sought, the thesis proposal must be prepared, receive major-field approval, and be filed with the Master's Candidacy Advisor as part of this process.

Thesis

Graduate Education requires the formal appointments of three Graduate Faculty readers of the thesis, one of whom is their mentor. All three readers must approve the acceptable thesis. Students ordinarily may not circulate the thesis among the approved faculty readers during the summer months. Likewise, students should not expect conferral of a research Master's degree during or at the end of the Summer Sessions. Exceptions may be granted on individual bases, but only with prior approval of the committee chairperson.

The written work must follow a composition format within guidelines established by the major field and the *Formatting Guide*. The Master's Candidacy Advisor completes a format evaluation of the thesis and abstract by appointment. Students will then submit the abstract and thesis to ProQuest/UMI.

Comprehensive Degree Examination

Because there is variation among Master's programs and policies regarding comprehensive exams and capstone requirements, students should refer to individual program requirements and handbooks. Individual programs based on disciplinary practices determine final degree requirements.

Ordinary Time to Degree

The entire Master's degree program, exclusive of prerequisites, is expected to be completed within a five-year time period, beginning with the academic term of the first course applicable to the degree. Students pursuing degrees by attendance only during the Summer Sessions are expected to complete all requirements for their non-research degrees within a period of six consecutive summers.

Should the five years (or six summers) pass without completing all degree requirements, students cease to be in good academic standing unless they petitions for an extension to be approved by the Associate Dean or Center Director of the particular college, school, or center and the Associate Vice President for Graduate Education. Extensions are usually granted for no longer than one calendar year at a time. Ordinarily, for students pursuing a research degree, each extension carries with it the requirement of registration for one additional credit (beyond the required six credits) of Thesis Research. Students completing a non-research Master's degree and exceeding the time-to-degree limit must also petition for an extension and are required to take an additional credit per year until completion.

Additional Departmental Requirements

In addition to these general requirements, each department or major field may, set additional requirements that are pertinent to the particular area of study. These specific requirements are found in the Courses and Curriculum section of this catalog.

The Specialist in Education Degree

The Specialist in Education (Ed.S.) program is designed for the educator/practitioner seeking administrative certification at the elementary, middle, junior high, senior high, or school-district level. For additional descriptive information about this program, see the Courses and Curricula section of the catalog under the College of Education and Public Service.

The Doctor of Education Degree

The Doctor of Education (Ed.D) program is preparation for educational-leadership roles through broadly based coursework and an extensive project focusing on practical needs within the major field. The degree includes research preparation, practica, and internship experiences. For additional descriptive information about this program, see the Courses and Curricula section of the catalog under the College of Education and Public Service.

The Doctor of Philosophy Degree

Applicants having superior previous academic records and showing strong potential for continued academic study and research may be admitted to pursue the Ph.D. degree. In some major fields, applicants possessing the Bachelor's degree may be admitted for direct study toward the doctorate. In others, requirements for the appropriate Master's degree must have been completed.

Coursework

For admitted students holding an appropriate Master's degree, the additional preparation for preliminary degree examinations generally will be approximately 24-30 credits. After students have been enrolled for an academic term, they may petition for "advanced standing" and formal recognition of the applicability to the doctoral program of that academic work completed elsewhere. If the Master's degree was obtained at Saint Louis University, this is not necessary. Additional graduate-level academic work, not part of any earned advanced degree, may be formally transferred into the doctoral program, but a minimum of 24 credits of advanced academic work, prior to the research phase of the program, must be completed as a doctoral student.

For students admitted to pursue a Ph.D. directly from the baccalaureate, the total credits required prior to preliminary degree-exams may be as few as 48. See the Courses and Curricula section of the catalog and the program handbook for requirements in specific fields.

If students pursue a certificate, it ordinarily requires completion of minimally 15 credits, but a portion of those credits may also partially satisfy requirements for the degree sought.

Ordinarily, no doctoral program may include more than 20% of the coursework in preparation for preliminary degree examinations in Research Topics (697) or Graduate Reading (698), or a combination thereof. Students are not permitted to take 400-level tutorials (identified by the course number 497 or 498).

Research-Tools Requirements

Such requirements are not imposed as a whole because of variable needs across major fields. Most doctoral programs prescribe levels of competence to be attained in foreign language translation, statistics, computer literacy, or other tools of research. Students seeking translation skills are encouraged to enroll in courses in the Department of Modern and Classical Languages designed specifically for them. All research-tool competencies are generally to be developed in addition to the ordinary academic work required for the degree and may be demonstrated through examination if permitted by the major field.

Preliminary Degree Examinations

Each doctoral program will administer a written degree examination consistent with the expectations of the academic discipline. In some programs, a qualifying examination will be administered relatively early in the doctoral studies. In other programs, the written examination is structured to assess comprehensive knowledge of the discipline after all or nearly all of the academic work has been completed. If students' performance is satisfactory, the department chairperson recommends a committee of five members of the Graduate Faculty to administer the oral examination.

Committees for Oral Examination/Proposal Defense and Dissertation Defense

The chair of a Doctoral Committee must be from students' program and a member of the current Saint Louis University faculty. All committee members must hold Graduate Faculty status. An emeritus professor, a non-Saint Louis University faculty member or someone outside of the major field may serve as a co-chair of students' Doctoral Committee. In order for a non-Saint Louis University faculty member to serve on a doctoral committee, the person must have a terminal degree in the field and/or have significant expertise or experience of particular relevance to students' dissertation. Such committee members must be appointed on an ad hoc basis to the Graduate Faculty. The associate dean or director of the college, school, or center upon written request by the committee chair may make ad hoc appointments. The proposed member's CV must accompany the request.

Oral Examination/Proposal Defense

An oral examination/proposal defense is scheduled in advance of the formalized research phase of a program and after the Associate Dean for Graduate Education or Center Director approves the examination committee. This examination may evaluate broad knowledge of the field or it may be largely focused on the dissertation proposal if the program written preliminary degree-exam was comprehensive. To schedule the exam/proposal defense, students must complete the "Doctoral Oral Examination Form"; the form must be received by the doctoral candidacy advisor at least two weeks prior to the date of the exam. Upon receipt of the form, the doctoral candidacy advisor will send a decision result form to the committee chairperson prior to the exam or defense. Each program will determine the manner in which a vote for the exam or proposal defense is taken. The only information transmitted to the Office of Graduate Education is the final decision, including any notation of passing with distinction. If students fail the exam/proposal defense, the oral exam may be repeated once upon authorization by the Associate Dean. An outside committee member (a Saint Louis University faculty member from another program) will be present at the second exam/proposal defense. Ordinarily, the second attempt should not be scheduled within the same academic term as the first. Should the outcome of the second examination be unsatisfactory, a third exam is rarely approved.

Advancement to Candidacy: Research Phase

Doctoral Candidate status will be given to students after the passage of the comprehensive oral exam regardless of whether it includes the dissertation proposal. Graduate Education policy requires that students be enrolled in at least one hour of dissertation credit upon achieving candidacy until completion of 12 hours.

Dissertation

The Candidate for a Ph.D. must write a dissertation and present and defend their original and independent research. Twelve credits of Dissertation Research are required of students pursuing the Ph.D. within the ordinary time period to the degree.

The written work must follow a composition format within guidelines established by the major field and the *Formatting Guide*. A 3-paper model is allowed as an alternative to the traditional dissertation. This model permits the doctoral candidate the option of compiling three (or more) related articles that have been published or approved for publication in one or more peer-review scholarly journals. The articles are related to a central theme. Each article becomes a chapter within the dissertation. Not all doctoral programs allow the 3-paper model of dissertation. The Doctoral Candidacy Advisor completes a format evaluation of the dissertation and abstract by appointment. Students will then submit the abstract and dissertation to ProQuest/UMI.

Public Presentation and Defense of the Dissertation

Across all major fields, Graduate Education requires a public, oral presentation and defense of the dissertation. The presentation should be scheduled after all Graduate Faculty readers have approved the general content of the dissertation. A Notification of Readiness form must be received by the Doctoral Candidacy Advisor a minimum of two weeks prior to the defense date. Candidates anticipating May graduation must submit the Notification of Readiness no later than the date set in the Graduate Education Calendar of Deadlines supplement to the University Calendar. Following the public presentation, the doctoral candidate should expect questions from the readers and the assembled audience. The dissertation-committee chairperson serves as the moderator for the defense.

Each program will determine the manner in which a vote for any type of exam or defense is taken. The only information transmitted to the Office of Graduate Education is the final decision, including any awards of distinction. The result forms will be sent to committee chairperson prior to the exam or defense. There will be separate votes for the Doctoral Oral Defense of the Dissertation and the Written Dissertation. A vote of pass is required from a majority of the committee members for students to pass the Doctoral Oral Defense of the Dissertation and the Written Dissertation. The written dissertation vote can wait until each committee member fully approves the written dissertation. A category of passing with distinction will be an option for each program for the doctoral defense and the dissertation.

Time-Period to Degree and Extensions of Time

If the time in the degree program exceeds the seven or eight years and doctoral requirements remain, students must successfully petition for an extension of the ordinary time period to remain in good standing. The petition must be submitted prior to the expiration of the time to degree and must be accompanied by a letter describing the justification for the extension and a dated schedule for completion of all remaining requirements. The petition must be approved by the research mentor and major-field chairperson or program director, Associate Dean or Center Director, and finally the Associate Vice President for Graduate Education. A maximum of two extensions beyond the normal time to degree will be permitted. Generally, when such petitions are approved, extensions are granted for one calendar year. In part because such petitions typically occur during the research phase of the degree program, each such approval is also accompanied by the requirement of enrollment in one additional Dissertation Research credit (beyond twelve, which should have already been taken). Furthermore, if the time period has been exceeded to the extent that more than five calendar years have elapsed since preliminary degree examinations were passed, to remain active in the doctoral program students will be required to retake the preliminary examinations to demonstrate currency in the major field.

Thesis and Dissertation

Proprietary Research

A goal of the program activities for any department is generation of new knowledge through research activities, and public dissemination of that knowledge by means of publications and presentations. The posted guidelines (see Guidelines for Proprietary Research) are intended to address the use of restricted-access and confidential or proprietary information as part of students thesis and dissertation activities. Specific conduct, however, may be dictated by the terms and conditions of applicable confidentiality agreement or non-disclosure agreements. To further the University's goals as a research institution and to support research and scholarly activities within the University community, some component of the defense of the thesis or dissertation must be public.

ProQuest/UMI Dissertation Publishing

After the Format Review appointment with the Candidacy Advisor, students submit their thesis or dissertation to ProQuest/UMI for digital archiving and publication via Dissertation Abstracts International. This must be done before degree conferral can be received. During the submission process students will need to make a series of decisions concerning what kind of accessibility (restricted or open) would be appropriate and whether or not an embargo is needed.

Embargo

At the time of electronic submission of the thesis/dissertation (ETD) authors can choose to block access by delaying publication in order to protect the work for patent and/ or proprietary purposes for up to two years. At the expiration of an embargo, the work will default to whichever publishing method was selected.

If there is a need to delay publication beyond the embargo period, a request must be made in writing to the chairperson of the author's committee explaining the rationale for an extension and the additional time requested. The committee chair and the department chair must approve the request. If approved, the author then contacts ProQuest/UMI to notify them of the extension.

CONSORTIUMS

Inter-University Exchange

The Inter-University Exchange is a consortium agreement that allows students to take courses at other Saint Louis area institutions but have the course and the grade applied to their Saint Louis University transcript. Students pay Saint Louis University tuition just as though they were taking the course on our campus but attend the course at the cooperating institution.

Cooperating institutions:

- Concordia Seminary
- Fontbonne University
- Harris Stowe State University
- University of Missouri - St. Louis
- Washington University in St. Louis

Students may be permitted to enroll in courses offered at these locations for SLU credit. Ordinarily, a maximum of the equivalent of one three credit course may be taken at the "visited" institution per academic term, and not more than six credits per degree program.

Saint Louis University students may cross-register for post-baccalaureate courses (500 or 600 level) at other institutions included in the Inter-University agreements under the following conditions:

1. They are full-time and in good academic standing.
2. The course is not available at Saint Louis University.
3. The course is required or recommended for their program (including prerequisites).
4. The course is approved by the Saint Louis University advisor, department chair and dean.
5. Tuition for the course is paid to Saint Louis University at its rates.
6. Grades earned under these conditions will be computed into semester and cumulative grade point averages.

Students will be responsible for any additional course fees assessed by the "visiting" institution.

Both Saint Louis University students, and students from other institutions, must obtain permission to participate in this program by completing an Inter-University Program - Registration Form. This form requires the signatures of their Dean at their home institution, and the signature of the instructor or department at the university where the course is offered. When this form is completed it should be returned to the Office of the University Registrar at your home institution who will complete the registration process for students.

Note: Some colleges/schools within the participating universities may not be available in this program. Check with the Registrar's Office at the institution you wish to visit.

Through special arrangements with the University, Aquinas Institute's (AI) graduate courses are directly accessible to students. Enrollments by students in AI coursework should be limited, the transfer-of-credit guidelines apply, and such registrations are to be monitored by the major fields.

Midwest Catholic Graduate Schools Consortium

The Midwest Catholic Graduate Schools Consortium was created to foster cooperative endeavors in post-baccalaureate education and research among four universities: Loyola University-Chicago, Marquette University, University of Notre Dame, and Saint Louis University. The Consortium has established a visitation program for students and from time to time investigates joint research applications. Students should check with their major field departments for details.

DUAL-DEGREE PROGRAMS

There are a number of formally established, advanced dual-degree programs. Within such a program, students pursue two post-baccalaureate degrees concurrently. Separate applications must be made for the individual degree programs, and admission to pursue one of the degrees does not guarantee admission to the dual-degree program.

A practical reason for students to pursue a specific pair of advanced degrees concurrently is the sharing of some coursework requirements. The applicant should apply to the more competitive of the two programs first. The individual major-field components of a dual-degree program must be initiated reasonably close together in time such that appropriate integration of the individual programs takes place. The Directors of the two programs determine the necessary proximity of start dates in individual instances.

Health Administration and Business Administration	M.H.A. | M.B.A.
Law and Business Administration	J.D. | M.B.A.
Law and Health Administration	J.D. | M.H.A.
Law and Health Care Ethics	J.D. | Ph.D.
Law and Health Outcomes Research	J.D. | M.S.
Law and Public Administration	J.D. | M.P.A.
Law and Public Health	J.D. | M.P.H.
Law and Public Health (Health Policy concentration)	J.D. | M.P.H.
Law and Social Work	J.D. | M.S.W.
Law and Sociology and Criminal Justice	J.D. | M.A.
Law and Urban Planning and Development	J.D. | M.A.
Medicine and Basic Biomedical Sciences	M.D. | Ph.D.
Medicine and Business Administration	M.D. | M.B.A.
Medicine and Health Care Ethics	M.D. | Ph.D.
Medicine and Public Health	M.D. | M.P.H.
Public Health and Clinical Psychology	M.S.P.H. | Ph.D.
Public Health and Nutrition and Dietetics	M.P.H. | M.S.
Public Health and Social Work	M.P.H. | M.S.W.
Public Administration and Political Science	M.P.A. | M.S.
Public Administration and Social Work	M.P.A. | M.S.W.
Social Work and Pastoral Studies	M.S.W. | M.A.P.S.
Social Work and Master of Divinity at Concordia Seminary	M.S.W. | M.D.iv.
Social Work and Theology at Concordia Seminary	M.S.W. | M.A.Th.
Social Work and Deaconess Studies at Concordia Seminary	M.S.W. | M.Deac.
Sustainability and Business Administration	M.A. | M.B.A.
Theology and Health Care Ethics	M.A. | Ph.D.
French and French at the University of Poitiers, France	M.A. | M.A.

Students accepted into a dual degree program must have both degrees award simultaneously, unless granted special permission by the Associate Dean and Center Director.

Applicants or current students interested in a dual-degree program should contact the administrative personnel in the two individual degree programs for additional information and advice, or refer to the brief summaries of the dual-degree programs found in the Curricula and Courses section of this catalog.

CERTIFICATE PROGRAMS

There are several categories of post-baccalaureate certificate programs. For example, nursing or counseling professionals with a Master's degree may seek academic qualification in an additional specialty or for licensure via post-Master's certificate programs. Specific application protocols, not unlike those for Classified status, are in place. The requirements for these certificates may be found in the Curricula and Courses section of this catalog. A Certificate in University Teaching Skills may be earned by students through the Reinert Center for Transformative Teaching and Learning.

There are also opportunities for Classified students to pursue a certificate concurrent with and parallel to seeking a post-baccalaureate degree. The objective is to improve students competencies through inclusion of a series of courses that collectively focus on a particular area of study related to the broader degree. Admission to a parallel certificate requires a formal petition.

The certificate generally demands satisfactory completion of a minimum of 15 credits, and the program culminates with a capstone requirement. The majority of the certificate coursework may also partially fulfill requirements for the degree.

Several such specific certificate programs have been developed.

Curricula and Courses

INTRODUCTION

This part of the Catalog is divided into the individual colleges, schools and centers. Within each collegiate unit the post-baccalaureate programs are individually described. There are additional requirements for each available degree, and a listing in numerical order of the 500 through 800-level courses that students may take for post-baccalaureate credit. In general, not every requirement for the degree is indicated within each program description. The requirements not given are those common to all programs and required by Graduate Education (and detailed in the General Requirements section of this catalog).

The University's course code has a three-part structure: 1) the subject abbreviation, 2) the course number, and 3) the section number. Post-baccalaureate credit may be earned upon completion of specific individual courses numbered 400 through 899.

Graduate Education permits, subject to approval by the Graduate Academic Affairs Committee (GAAC), the double-numbering of courses involving two levels of academic work. A course may exist at both the 400 and 500 levels or at both the 500 and 600 levels. For such a course, the requirements and expectations differ with the course level. Students may not enroll in it at the 400 level. Doctoral students might register for a 500/600-level course under the 600 numbers, whereas students seeking a Master's degree would likely take it at the 500 level.

Numbers in the 90s at the 500 and 600 levels refer to generic forms of academic work at the Master's and doctoral levels. Specifically, the numbers, generic titles, and credits are as follows:

590: Introduction to Graduate Study (0-1)
591-691: Journal Club (0-1)
592-692: Colloquium (0-1)
593-693: Special Topics (1-3)
594-694: Internship (0-6)
595-695: Special Study for Examinations (0)
596-696: Essay/Project Guidance (0-3)
597-697: Research Topics (1-3)
598-698: Graduate Reading Course (1-3)
599: Thesis Research (0-6)
5CR: Master's Degree Study [Section 90] (0)
5CR: Specialist Degree Study [Section 95] (0)
690: Introduction to Doctoral Study (0-1)
699: Dissertation Research (0-6)
6CR: Doctor of Education Degree Study [Section 97] (0)

COLLEGE OF ARTS AND SCIENCES

Michael Barber, S.J.
Dean

Established in 1818, the College of Arts and Sciences is the oldest academic division of the University. The College comprises seventeen departments spanning the humanities, social sciences and natural sciences; fifteen of these departments offer programs of post-baccalaureate study leading to Master's and/or Doctoral degrees. The goal of post-baccalaureate education in the College is to educate leaders who have mastered the knowledge and skills of their disciplines, contributed to the discovery of new knowledge through original research, and who will continue that quest consistent with Jesuit values.

AMERICAN STUDIES

Matthew J. Mancini, Ph.D.
Department Chairperson

The Department of the American Studies provides a systematic interdisciplinary approach to the historical study of the cultures of the United States, and to the critical analysis of their ongoing evolution. Within the framework of the great Jesuit humanist tradition, the American Studies Department trains students in the skills of clear thinking, writing and speaking, as well as the abilities associated with interpreting literary texts, evaluating historical documents and artifacts, applying humanistic and social science methods and theoretical approaches, and reflecting morally about the problems and issues they address in the classroom. The Department's mission includes advancing knowledge in the field through significant research and publication as well as training future scholars and teachers. The Department also educates scholars for professional futures in education, government, business, law, and other areas and for participation as thoughtful citizens in the multicultural nation and world in which they will live and work.

Master of Arts (Non-thesis option)

Prerequisites
Undergraduate degree or equivalent in a humanities or social science area; additional prerequisite work may be required at the discretion of the Department.

Required Courses
ASTD.510 Perspectives in American Studies
At least one reading seminar offered by the Department
At least one research seminar offered by the Department

A formal minor is not permitted.

Master of Arts (Thesis option)

Prerequisites
Undergraduate degree or equivalent in a humanities or social science area; additional prerequisite work may be required at the discretion of the Department.

Required Courses
ASTD.510 Perspectives in American Studies
At least one reading seminar offered by the Department
At least one research seminar offered by the Department
Six credits of ASTD.599 Thesis Research

A formal minor is not permitted.

Doctor of Philosophy

Prerequisites
Undergraduate degree or equivalent in a humanities or social science area; additional prerequisite work may be required at the discretion of the Department.

Required Courses
ASTD.510 Perspectives in American Studies;
ASTD.550 The Practice of American Studies; and
ASTD.612 Dissertation Colloquium
At least two reading seminars offered by the Department
At least two research seminars offered by the Department

Additional Requirements
Reading proficiency in one foreign language

A formal minor is not permitted.

Post-baccalaureate Courses

ASTD.510 Perspectives in American Studies (3)
ASTD.515 American Photography (3)
ASTD.523 Cultures of the American South (3)
ASTD.525 Tocqueville's America (3)
ASTD.535 Memoir and Life Writing in American Culture (3)
ASTD.537 America and the Transatlantic: Readings of the Middle Passage (3)
ASTD.540 Metropolitan America (3)
ASTD.542 Workshop in the American Metropolis (3)
ASTD.550 The Practice of American Studies (3)
ASTD.572 Cross-Cultural Encounters of the American Frontier (3)
ASTD.574 Women's Lives (3)
ASTD.577 African American Politics, Culture, and Identity (3)
ASTD.593 Special Topics in American Studies (3)
ASTD.594 Graduate Internship (1-3)
ASTD.595 Special Study for Examinations (0)
ASTD.598 Graduate Reading Course (1-3)
ASTD.599 Thesis Research (0-6)
ASTD.5CR Master's Degree Study (0)
ASTD.605-01 Mythbusting and Mythmaking in Recent American Studies Scholarship (3)
ASTD.612 Dissertation Colloquium (1-3)
ASTD.615 Visual Culture Theory (3)
ASTD.620 Jazz and American Culture (3)
ASTD.627 Transnational America (3)
ASTD.637 Visions of U.S. Empire
ASTD.642 Topics in American Urbanism (3)
ASTD.644 From Satchmo to Strangelove: Cold War Cultural Politics and the "American Century" (3)
ASTD.645 Edibles are Fun to Think With: Food and American Culture (3)
ASTD.655 Public Art and Memory (3)
ASTD.660-01 American Studies Interdisciplinary Seminar (3)
ASTD.670 American Political Thought (3)
ASTD.671 Leadership and Culture (3)
ASTD.693 Special Topics in American Studies (3)
ASTD.694 Graduate Internship (1-3)
ASTD.695 Special Study for Examinations (0)
ASTD.698 Graduate Reading Course (1-3)
ASTD.699 Dissertation Research (0-6)
ASTD.6CR Doctor of Philosophy Degree Study (0)

BIOLOGY

Robert M. Wood, Ph.D.
Department Chairperson

John C. Kennell, Ph.D.
Associate Chair

Susan Spencer, Ph.D.
Graduate Coordinator

The Department of Biology offers post-baccalaureate degree study in a variety of areas, including Genetics, Evolution, Cell Biology, Physiology, and Microbiology, Ecology, and Systematics. In addition to resources on the Frost Campus, the Department makes use of facilities at the Missouri Botanical Garden, the St. Louis Zoological Park, the Danforth Plant Science Center, Washington University and Saint Louis University Medical School. The Department also operates Reis Biological Station in the Missouri Ozarks. The Reis Biological Station serves as a center for education and environmental research.

Master of Arts

Prerequisites
Suggested courses include: Biology (a minimum of eighteen, upper-division credits); Chemistry (a minimum of eight, upper-division credits including two semesters of organic chemistry or one semester of organic chemistry and the other of biochemistry); Physics (two semesters); Mathematics (through a first course in Calculus).

A formal minor is not permitted.

Required Courses
The program for the Master of Arts degree requires a minimum of 30 credits of structured coursework. No thesis is required for the degree. Courses may be chosen from upper level electives within the Department of Biology or related departments in consultation with students' advisors.

BIOL.582 Graduate Seminar: Cellular and Molecular Regulation (at least one semester) OR
BIOL.584 Graduate Seminar: Ecology, Evolution, and Systematics (at least one semester)
BIOL.591 Departmental Seminar (every semester)

Master of Science

Prerequisites
The same suggested Biology, Chemistry, Mathematics, and Physics prerequisites as listed previously for the Master of Arts degree. For students interested in Ecology, Evolution or Systematics, additional coursework in some of the following areas is also recommended: genetics, general ecology, evolution, introductory statistics, general botany, and a taxonomically oriented course. For students interested in Cell or Molecular biology, additional coursework in some of the following areas is recommended: genetics, biochemistry, cell biology, physiology, molecular biology, microbiology or immunology.

The program for the Master of Science degree requires a minimum of 30 credits, including 24 credits of structured coursework and 6 credits of Thesis Research. Courses may be chosen from upper level electives within the Department of Biology or related departments; coursework may be tailored to the research interests in consultation with advisory committees of students.

Required Courses
BIOL.582 Graduate Seminar: Cellular and Molecular Regulation (minimum of two credits) OR
BIOL.584 Graduate Seminar: Ecology, Evolution, and Systematics (minimum of two credits)
BIOL.586 Scientific Communication in Biology Practicum (one credit)
BIOL.580 Research Colloquium (one credit)
BIOL.591 Departmental Seminar (every semester)

Doctor of Philosophy

Prerequisites
The same suggested Biology, Chemistry, Mathematics, and Physics prerequisites as listed previously for the Master of Arts degree. For students interested in Ecology, Evolution or Systematics, additional coursework in some of the following areas is also recommended: genetics, general ecology, evolution, introductory statistics, general botany, and a taxonomically oriented course. For students interested in Cell or Molecular biology, additional coursework in some of the following areas is recommended: genetics, biochemistry, cell biology, physiology, molecular biology, microbiology or immunology.

The program for the Doctor of Philosophy degree requires a minimum of 36 credits, when pursued from the baccalaureate, including 24 credits of structured coursework and 12 credits of Dissertation Research. Courses may be chosen from upper level electives within the Department of Biology or related departments; coursework may be tailored to the research interests in consultation with the advisory committees of students.

New Ph.D. degree students who enter the program with a B.S. or B.A. degree may take the written preliminary exam the first or second Spring semester they are in the program. New Ph.D. students who enter the program with a Master's degree are required to take the written preliminary exam the first Spring semester they are at SLU.

A formal minor is not permitted.

Required Courses
BIOL.582 Graduate Seminar: Cellular and Molecular Regulation (minimum of two credits) OR
BIOL.584 Graduate Seminar: Ecology, Evolution, and Systematics (minimum of two credits)
BIOL.586 Scientific Communication in Biology Practicum (one credit)
BIOL.580 Research Colloquium (one credit)
BIOL.691 Departmental Seminar (every semester)

Upper-Division Undergraduate Courses

BIOL.402 Vertebrate Reproductive Physiology (3)
BIOL.404 Pollination Biology (3)
BIOL.409 Plant Ecology (3)
BIOL.410 Natural History of the Vertebrates (4)
BIOL.411 Natural History (1)
BIOL.412 Field Botany (5)
BIOL.413 Field Mammalogy (5)
BIOL.414 Field Ornithology (5)
BIOL.415 Nerve Cell Mechanisms in Behavior (3)
BIOL.416 Microbial Ecology (4)
BIOL.420 Aquatic Ecology (4)
BIOL.421 Biology and Classification of Orchids (3)
BIOL.426 Biology of Amphibians and Reptiles (4)
BIOL.428 Biology of Fishes (4)
BIOL.431 Biology of Birds (4)
BIOL.432 Cave Biology (4)
BIOL.433 Spring Flora of the Ozarks (4)
BIOL.434 Systematic Biology (3)
BIOL.435 Biology of Parasitic Organisms (4)
BIOL.436 Animal Behavior (3)
BIOL.437 Animal Behavior Laboratory (1)
BIOL.438 Biology of Mammals (4)
BIOL.440 Applied Ecology (3)
BIOL.441 Comparative Animal Physiology (3)
BIOL.444 Vertebrate Histology (4)
BIOL.448 Conservation Biology (3)
BIOL.450 Introductory Endocrinology (3)
BIOL.451 Behavioral Endocrinology (3)
BIOL.454 Human Cellular Physiology (3)
IBOL.461 Developmental Biology Laboratory (2)
BIOL.464 General Microbiology (3)
BIOL.465 Microbiology Lab (2)
BIOL.472 Cancer Biology (3)
BIOL.480 Internship in Conservation (3)
BIOL.481 Integrative Bioinformatics Internship (0-3)
BIOL.482 Internship in Plant Science (3)

Post-baccalaureate Courses

BIOL.500 Problems in Vertebrate Morphology (2-3)
BIOL.501 Ecology of Vertebrate Reproduction (3)
BIOL.502 Comparative Vertebrate Reproduction (3)
BIOL.503 Genomics (3)
BIOL.505 Molecular Techniques Laboratory (2)
BIOL.507 Advanced Biological Chemistry (3)
BIOL.508 Advanced Cell Biology (3)
BIOL.509 Biometry (4)
BIOL.510 Cellular and Molecular Genetics (3)
BIOL.512 Signal Transduction (3)
BIOL.517 Introduction to GIS
BIOL.518 Intermediate GIS
BIOL.519 GIS in Biology (3)
BIOL.530 Problems in Vertebrate Physiology (2-4)
BIOL.534 Problems in Cell Biology (1-2)
BIOL.535 Current Topics in Cell Biology (2)
BIOL.540 Problems in Genetics (1-4)
BIOL.541 Ecological Genetics (3)
BIOL.542 Problems in Evolutionary Biology (1-4)
BIOL.545 Biogeography (3)

BIOL.547 Systemic Biology Lab (1)
BIOL.548 Conservation Biology (3)
BIOL.550 Problems in Ecology (2-4)
BIOL.555 Advanced Ecology (3)
BIOL.556 Advanced Evolution (3)
BIOL.558 Applied Population Genetics (3)
BIOL.561 Principles of Developmental Biology (3)
BIOL.564 Concepts of Immunology (3)
BIOL.567 Advanced Population Biology (3)
BIOL.570 Advanced Molecular Biology (3)
BIOL.576 Problems in Botany (2-4)
BIOL.578 Molecular Phylogenetic Analysis (3)
BIOL.582 Graduate Seminar/Cellular and Molecular Regulation (1–2)
BIOL.584 Graduate Seminar: Ecology, Evolution, and Systematics (2)
BIOL.591 Department Seminar (0-1)
BIOL.593-01 Research Colloquium (0-1)
BIOL.593-02 Scientific Communication Practicum (1)
BIOL.595 Special Study For Exams (0)
BIOL.597 Research Topics (Master's only; 1-3)
BIOL.598 Graduate Reading Course (Master's only; 1-3)
BIOL.599 Thesis Research (0-6)
BIOL.604 Current Topics in Developmental Biology (3)
BIOL.615 Neural Basis of Behavior (3)
BIOL.630 Special Studies in Comparative Physiology (1-4)
BIOL.691 Departmental Seminar (0-1)
BIOL.695 Special Study for Examinations (0)
BIOL.697 Research Topics (Ph.D. only; 1-3)
BIOL.698 Graduate Reading Course (Ph.D. only; 1-3)
BIOL.699 Dissertation Research (0-6)

CHEMISTRY

Steven W. Buckner, Ph.D.
Department Chairperson

R. Scott Martin, Ph.D.
Graduate Program Director

The Department of Chemistry offers both a M.S. and Ph.D. degree. The thesis-based Master of Science degree program is typically for full-time research students who want to a stand-alone M.S. degree. The non-thesis-based M.S. degree is for full-time research students who want to transition into the Ph.D. program after year 2 in the department. Both degrees offer specialization in the fields of analytical, inorganic, organic, or physical chemistry. This program includes a core curriculum of 12 credits consisting of a minimum of two courses from each of the two specified areas, with the remaining 12 credits coming from electives. Both degrees allow for a broad coverage of chemistry coursework, while permitting students to specialize in their field of interest.

The Department of Chemistry also offers a Doctor of Philosophy degree. This degree program requires a total of 39 credits of lecture coursework and research classes (including 12 credits of dissertation research).

These programs are designed to allow students to specialize in one of the five areas: analytical, chemical biology, inorganic, organic, or physical chemistry.

Master of Science (non-thesis option)

Prerequisites
In addition to 18 credits in advanced undergraduate Chemistry courses or the equivalent, a background in mathematics which includes at least two courses in calculus and a minimum of one year of physics are required.

Required Courses
Students must take 24 credits of coursework in the Department CHEM.513 (Advanced Inorganic Chemistry) and CHEM.520 (Analytical Chemistry II) must be taken unless they or their equivalents have already been taken for undergraduate credit. Full-time research students usually take 3 credits of Introductory Research in a CHEM.5x8 course in addition to 3 credits of research topics course.

A formal minor is not permitted.

Master of Science (Thesis option)

Prerequisites
In addition to 18 credits in advanced undergraduate Chemistry courses or the equivalent, a background in mathematics which includes at least two courses in calculus and a minimum of one year of physics are required.

Research Component
Students are required to complete 6 credits of Thesis Research, culminating in an oral presentation of their research work.

Required Courses (Core)
Students must take 12 credits of course courses, with 6 credits from (1) *Synthesis & Materials Chemistry* courses and 6 credits from (2) *Analytical & Physical Methods.* The remaining 6 credits can come from either area.

A formal minor not permitted.

Doctor of Philosophy

Prerequisites
In addition to 18 credits in advanced undergraduate chemistry courses or the equivalent, a background in mathematics which includes at least two courses in calculus and a minimum of one year of physics are required.

Research Component
Students are required to complete 3 credits of Introductory Research in a CHEM.5x8 courses in addition to 12 credits of Dissertation Research, CHEM.699; 3 credits of research topics; and 3 credits of Proposal Writing CHEM.690; culminating in an oral presentation of their research work.

Required Courses (Core)
Students must take 12 credits of core courses, with 6 credits from (1) *Synthesis & Materials Chemistry* courses and 6 credits from (2) *Analytical & Physical Methods.* The remaining 6 credits can come from either area.

A formal minor not permitted.

Post-baccalaureate courses
All post-baccalaureate courses are typically offered every other year unless otherwise specified. Some of the courses listed below may be offered in the summer session. Information on summer offerings is available from the Graduate Program Director or Department Chairperson.

CHEM.508 Advances in Synthetic Chemistry (3)
CHEM.509 Advances in Analysis and Modeling of Chemical Systems (3)
CHEM.512 Chemical Applications of Group Theory and Spectroscopy (3)
CHEM.513: Inorganic Chemistry (3)
CHEM.515 Organometallic Chemistry (3)
CHEM.517 Solid State Chemistry (3)
CHEM.518 Introduction to Chemical Literature (1)
CHEM.518 Introduction to Inorganic Research (1-3)
CHEM.519 Special Topics in Inorganic Chemistry (3)
CHEM.520 Instrumental Analysis (3)
CHEM.521 Environmental Chemistry (3)
CHEM.523 Chemical Sensors (3)
CHEM.524 Electroanalytical Chemistry (3)
CHEM.525 Bioanalytical Methods of Analysis (3)
CHEM.526 Analytical Separations (3)
CHEM.527 Analytical Spectroscopy (3)
CHEM.528 Introduction to Analytical Research (1-3)
CHEM.529 Special Topics in Analytical Chemistry (3)
CHEM.533 Advanced Physical Chemistry (3)
CHEM.534: Advanced Thermodynamics (3)
CHEM.535 Elements of Surface and Colloid Science (3)
CHEM.537 Computational Chemistry (3)
CHEM.538 Introduction to Physical Research (1-3)
CHEM.539 Special Topics in Physical Chemistry (3)
CHEM.540 Advanced Organic Chemistry (3)
CHEM.541 Synthetic Organic Chemistry (3)
CHEM.544 Polymer Chemistry (3)
CHEM.545 Principles of Medicinal Chemistry (3)
CHEM.548 Introduction to Organic Research (1-3)
CHEM.549 Special Topics in Organic Chemistry (3)
CHEM.551 Fundamentals & Design of Nanoarchitectures (3)
CHEM.591 Research Seminar (0-1)
CHEM.595 Special Study for Examinations (0)
CHEM.596 Essay Guidance (0-3)
CHEM.597 Research Topics (1-3)
CHEM.598 Graduate Reading Course (1-3)
CHEM.599 Thesis Research (0-6)
CHEM.5CR.90 Master's Degree Study (0)
CHEM.618 Methods in Inorganic Research (3)
CHEM.619 Advanced Inorganic Research (3)
CHEM.628 Methods in Analytical Research (3)
CHEM.629 Advanced Analytical Research (3)
CHEM.638 Methods in Physical Research (3)
CHEM.639 Advanced Physical Research (3)

CHEM.648 Methods in Organic Research (3)
CHEM.649 Advanced Organic Research (3)
CHEM.690 Intro to Proposal Writing & Oral Presentations (3)
CHEM.691 Research Seminar (0-1)
CHEM.699 Dissertation Research (0-12)

COMMUNICATION

April Trees, Ph.D.
Department Chairperson

Dan Kozlowski, Ph.D.,
Graduate Program Director

The Department of Communication offers a Master of Arts degree designed to teach students to be conscientious thinkers and leaders who communicate effectively in a diverse world and who understand the social implications of media and communication technology. Coursework options allow students to deepen their understandings of communication theory, research, criticism, and ethics within a variety of areas of study, including health communication, intercultural communication, interpersonal communication, media studies, organizational communication, rhetoric and public dialogue, and strategic communication. Working professionals and those seeking careers as organizational practitioners may be more attracted to the applied project or the comprehensive exam degree completion options, while students anticipating research-based careers or who might progress to doctoral programs should consider the thesis degree completion option.

Students choosing the comprehensive exam option for the M.A. degree take 30 credits of coursework plus comprehensive written and oral examinations. The applied project degree completion option includes 27 credits of coursework plus an applied project (3 credits of CMM.589, Applied Project) and a final oral examination. The thesis degree completion option consists of 24 credits of coursework plus a master's thesis (6 credits of CMM.599, Thesis Research) and a final oral examination. The department requires all students to take at least 21 credits of graduate-level courses in Communication, including 9 credits of required courses. For their additional coursework, students may choose up to a total of 9 credits in the following areas: 400-level courses in Communication, post-baccalaureate coursework outside of the department, or independent studies. Unless circumstances mandate otherwise, no more than 6 of these 9 credits may be taken in 400-level courses in Communication or post-baccalaureate coursework outside of the department. No more than 3 of these credits may be taken as independent studies.

Master of Arts

Prerequisites
Undergraduate Communication degree or a degree in a related discipline with possible prerequisites in Communication Theory and Research.

Required Courses
CMM.500 Graduate Study of Communication
CMM.502 Research Methods in Communication
CMM.504 Reading Foundations in Communication Theory

Additional Requirements
Students choose one of three degree completion options: **1)** M.A. Comprehensive Exam option with written and oral degree examinations (0 credits), **2)** M.A. Applied Project option with final oral defense (3 credits), or **3)** M.A. Thesis option with final oral defense (6 credits). For the M.A. Thesis option, an additional research methods course is strongly recommended.

Concentration in Rhetoric and Composition Studies

This concentration program allows graduate students to pursue an additional, interdisciplinary study of rhetorical theory and writing pedagogy. The concentration requires 12 hours of course work, six in English and six in communication. Students also complete an independent research project (a 25-page paper or equivalent).

Upper-Division Undergraduate Courses

CMM.400 Family Communication (3)
CMM.409 Theories of Persuasion (3)
CMM.410 Multiplatform Journalism (3)
CMM.416 Editing (3)
CMM.420 Leadership and Teams (3)
CMM.421 Organizational Culture (3)
CMM.422 Conflict, Mediation and Negotiation (3)
CMM.424 Training and Development (3)
CMM.430 Gender and Communication (3)
CMM.432 Communicating Across Racial Divisions (3)
CMM.435 Stereotyping and Bias in the Mass Media (3)
CMM.441 Critical Perspectives on Journalism (3)
CMM.442 Theory of Free Expression (3)
CMM.443 Culture, Technology and Communication (3)
CMM.444 History of Journalism (3)
CMM.447 Rhetoric of Political Campaigns (3)
CMM.460 Integrated Communication Campaigns (3)
CMM.464 Public Relations Case Studies (3)
CMM.465 International Public Relations (3)
CMM.470 Advertising Research and Strategic Planning (3)
CMM.472 American Advertising Federation Competition (3)
CMM.481 Digital Storytelling (3)

Post-baccalaureate courses

CMM.500 Graduate Study of Communication (3) (Offered every Fall semester)
CMM.502 Research Methods in Communication (3) (Offered every Spring semester)
CMM.504 Reading Foundations in Communication Theory (3) (Offered every Fall semester)
CMM.506 Contemporary Theories in Communication (3) (Offered occasionally)
CMM.510 Studies in Mass Media (3) (Offered occasionally)
CMM.512 Contemporary Issues in Media (3) (Offered every year)
CMM.514 Culture and Public Dialogue (3) (Offered occasionally)
CMM.516 Strategic Communication (3) (Offered every other year)
CMM.518 Organizational Communication (3) (Offered every year)
CMM.520 Communication Ethics (3) (Offered occasionally)
CMM.522 Rhetorical Theory and Criticism (3) (Offered occasionally)
CMM.524 Language and Cultural Diversity (3) (Offered occasionally)
CMM.525 Foundations of Journalism (3) (Offered occasionally)
CMM.526 Interpersonal Communication (3) (Offered every other year)
CMM.528 Health Communication (3) (Offered every year)
CMM.532 Digital Storytelling (3) (Offered occasionally)
CMM.535 Advanced Research Methods (3) (Offered occasionally)
CMM.562 Philosophy of Communication (3) (Offered occasionally)
CMM.589 Applied Project (3)
CMM.593 Special Topics (3)
CMM.595 Special Study for Examinations (0)
CMM.598 Graduate Reading Course (1-3)
CMM.599 Thesis Research (0-6)
CMM.5CR.90 Master's Degree Study (0)

COMMUNICATION SCIENCES & DISORDERS

Travis T. Threats, Ph.D.
Department Chairperson

The Department of Communication Sciences and Disorders offers a Master of Arts (M.A.) degree with an area of emphasis in speech-language pathology. The Department's program is accredited by the Council on Academic Accreditation (CAA) for the American Speech Language-Hearing Association (ASHA). The academic objective of the program is to prepare professionals with the expertise to provide quality clinical services in speech, language, communicative and swallowing disorders. A major focus of the program is to develop clinicians who are prepared to serve culturally and linguistically diverse populations across the life span. The program consists of 40 credits of academic credit plus successful completion of five zero-credit clinical practica (one taken each semester) and six credits in student teaching and medically based clinical internship during the last semester of the program.

Master of Arts

Prerequisites
General educational background in areas such as the humanities, arts, sciences, communication arts, education, modern language, statistics, psychology, and sociology is required. Undergraduate major or equivalent in coursework related to speech, language, and hearing science, development, and disorders is required.

Required Courses
CSDI.505 Experimental Design
CSDI.545 Phonological Development and Disorders
CSDI.551 Assessment/Management of Social Communication Disorders
CSDI.553 Augmentative and Alternative Communication
CSDI.555 Language I
CSDI.556 Language II
CSDI.560 Fluency Disorders
CSDI.563 Dysphagia
CSDI.570 Voice Disorders
CSDI.571 Cleft Palate and Craniofacial Anomalies
CSDI.572 Neurogenic Communicative Disorders in Adults
CSDI.576 Motor Speech Disorders
CSDI.577 Assessment and Management of Communication Disorders in Multicultural Populations
CSDI.580 Professional Issues in Speech-Language Pathology and Audiology
CSDI.582 Cognitive Communication Disorders
CSDI.501 Clinical Practicum
CSDI.503 Student Teaching in Communication Disorders
CSDI.594 Clinical Internship

Students must enroll in five terms (semester or summer) of zero-credit Clinical Practicum during their study. Additionally, six credits of off-campus clinical practice is completed during the last semester of study, typically involving three credits of Student Teaching and three credits of Clinical Internship. Total credits required: 46 credits (36 credits of required coursework, 4 credits of elective coursework and 6 credits of clinical practice).

A formal minor is not permitted.

Upper-Division Undergraduate Courses

CSDI.400 Survey of Speech Disorders (2)
CSDI.410 Survey of Language Disorders (2)
CSDI.420 Audiology: Basic Audiometry (3)
CSDI.430 Clinical Methods (3)
CSDI.435 Clinical Observation (0)
CSDI.440 Aural Rehabilitation (3)
CSDI.450 Neurological Bases of Communication (3)

Post-baccalaureate courses

CSDI.501 Clinical Practicum (0)
CSDI.503 Student Teaching in Communication Disorders (3)
CSDI.505 Experimental Design (2)
CSDI.544 Linguistics (2)
CSDI.545 Phonological Development and Disorders (2)
CSDI.551 Assessment/Management of Social Communication Disorders (2)
CSDI.553 Augmentative and Alternative Communication (2)
CSDI.555 Language I (3)
CSDI.556 Language II (3)
CSDI.558 Language Based Literacy Disorders (2)
CSDI.560 Fluency Disorders (3)
CSDI.563 Dysphagia (3)
CSDI.565 Clinical Supervision: Practices, Issues and Choices (2)
CSDI.570 Voice Disorders (3)
CSDI.571 Cleft Palate and Craniofacial Anomalies (2)
CSDI.572 Neurogenic Communicative Disorders in Adults (3)
CSDI.573 Neuropathologies in Children (2) (offered occasionally)
CSDI.576 Motor Speech Disorders (3)
CSDI.577Assessment and Management of Communication Disorders in Multicultural Populations (2)
CSDI.580 Professional Issues in Speech-Language Pathology (1)
CSDI.582 Cognitive Communication Disorders (3)
CSDI.588 Advanced Audiology (2)
CSDI.589 Institute in Communication Disorders (2)
CSDI.593 Special Topics (1-3)
CSDI.594 Clinical Internship (3)
CSDI.595 Special Study for Examinations (0)
CSDI.596 Essay/Project Guidance (0)
CSDI.598 Graduate Readings (1-3)
CSDI.599 Thesis Research (0-6)
CSDI.5CR Master's Degree Study (0)

EARTH & ATMOSPHERIC SCIENCES

William P. Dannevik, Ph.D.
Department Chairperson

GEOSCIENCE

Robert B Herrmann, Ph.D.
Graduate Program Director

The Department of Earth and Atmospheric Sciences offers programs leading to the degrees of Master of Science (M.S.) and Doctor of Philosophy (Ph.D.) in Geoscience with concentrations in Geology, Geophysics and Environmental Geosciences. Students with undergraduate degrees in any STEM discipline (science, technology, engineering or mathematics) are encouraged to apply to these programs.

Active research areas in geophysics include earthquake seismology, tectonics, gravimetry and physics of the deep interior, those in geology include tectonics, remote sensing, sedimentary geology and sedimentation, igneous and metamorphic petrology, geochemistry, geochronology, geomorphology and fluid-rock interaction, while those in environmental geosciences include river/reservoir sustainability, land use effects on water quality, wetland biogeochemistry, hydro-geochemistry, fluvial geomorphology, coastal geomorphology and processes..

Research facilities include a network of seismograph stations surrounding the New Madrid fault zone, state-of-the-art seismic observatories which transmit data by satellite and internet from remote sites distributed across a broad region of the central United States, high performance computing clusters, rock preparation and mineral separation facilities, a large format stream table, stable isotope geochemistry lab, elemental analysis, gas chromatography, water quality, soils laboratory and an environmental imaging lab.

Master of Science (Geoscience)

Required Core Courses (Geoscience, all Degrees)
EAS.450 Scientific Communications
EAS.591 Geoscience Journal Club (each semester) Master's students must register for at least one semester for one credit. Ph.D. students must register for at least two semesters for one credit each semester.
EAS.519 Seminar in Geosciences or EAS.539 Seminar in Geophysics

Concentration in Geology

The Master of Science (Thesis) in Geoscience with Geology concentration requires a minimum of 24 credits plus a written thesis with 6 credit. The Master of Science in Geology (non-Thesis) with a Geology concentration, coursework option, requires a minimum of 30 credits and independent study. Prerequisites include mineralology, petrology, sedimentology and structural geology. One year each of calculus, physics and chemistry is desirable.

Required courses in addition to required Core courses are:
EAS.506 Physics of the Solid Earth
EAS.517 Divergent and Convergent Margins or EAS.518 Transform margins and Plate Interiors

Concentration in Geophysics

The Master of Science (Thesis) in Geoscience with Geophysics concentration requires a minimum of 24 credits plus a written thesis of 6 credits. The Master of Science in Geoscience (non-Thesis) with a Geophysics concentration, coursework option, requires a minimum of 30 credits and independent study. Prerequisites include structural geology, college physics, mechanics and mathematics through differential equations.

Required courses in addition to required Core courses are:
EAS.506 Physics of the Solid Earth
EAS.517 Divergent and Convergent Margins or EAS.518 Transform Margins and Plate Interiors
and 2 of the following:
EAS 504 Potential Theory, EAS 540 Continuum Mechanisms and/or EAS 551-552 Seismic Exploration Methods with Laboratory

Concentration in Environmental Geosciences

The Master of Science (Thesis) in Geoscience with an Environmental Geosciences concentration requires a minimum of 24 credits plus a written thesis of 6 credits. The Master of Science in Geoscience (non-Thesis) with an Environmental Geosciences concentration, coursework option, requires a minimum of 30 credits and independent study. Prerequisites for Master's degree: an undergraduate degree in a STEM discipline with at least one semester each of calculus, physics, biology, chemistry, and geoscience; a second semester of calculus or one semester of statistics.

Doctor of Philosophy (Geosciences)

The Doctor of Philosophy in Geosciences requires a minimum of 48 credits of course work and exactly 12 credits of dissertation research. Up to 24 credits of course work leading to a Master's degree may count toward the credit requirement.

A formal minor is not permitted.

Concentration in Geophysics

The prerequisites are the same as for the Master's degree. When the doctorate is pursued directly from the baccalaureate, a minimum of 48 credits of coursework is required in preparation for the research-phase.

Required courses in addition to required Core courses are:

EAS.506 Physics of the Solid Earth
EAS.517 Divergent and Convergent Margins or EAS.518 Transform Margins and Plate Interiors, and 2 of the following:
EAS 504 Potential Theory, EAS 540 Continuum Mechanisms and/or EAS 551-552 Seismic Exploration Methods with Laboratory
Students in seismology must take:
EAS.512 Time Series Analysis in Geophysics
EAS.539 Seminar in Seismology
EAS.631 Advanced Seismology I
EAS.632 Advanced Seismology II

Concentration in Environmental Geosciences

The prerequisites are an undergraduate degree in a STEM discipline with two semesters of calculus, and six semesters combined in physics, biology, chemistry, and geoscience; or a Master's degree in a STEM discipline.

METEOROLOGY

Zaitao Pan, Ph.D.,
Graduate Program Director

Meteorologists study the dynamics of air motion, physical processes such as transfer of radiation, and convection resulting in severe storms, flash floods, and hurricanes. During the past few decades progress has been made in atmospheric sciences in developing systems to observe the current state of the atmosphere and in using those observations in improved computer models for weather prediction and climate simulation. The atmosphere is also the centerpiece of the interconnected, interactive global environmental system within which life thrives. Current research efforts include the study of heavy precipitation, regional climate, and air quality using numerical weather prediction models. Faculty members collaborate with research meteorologists at national centers as well as operational meteorologists at local National Weather Service forecast offices.

The Department is a charter member of the University Corporation for Atmospheric Research (UCAR) which manages the National Center for Atmospheric Research, Boulder, Colorado, under the sponsorship of the National Science Foundation. External funding for research comes from the National Oceanic and Atmospheric Administration (NOAA), the National Weather Service, and the National Aeronautics and Space Administration (NASA). The department has a dedicated synoptic computer lab and receives real-time data from both satellite downlink and the Internet.

Software for displaying and analyzing weather data comes from Unidata Program Center, the National Weather Service, and locally written code.

Masters of Science

This degree requires 30 credits with 6 credits being thesis research.

Prerequisite
An undergraduate degree in meteorology or a related field.

Required Courses (9 hrs):
EAS 508 Dynamics of the Atmosphere (3)
EAS 509 Physics of the Atmosphere (3)
EAS 530 Seminar in Atmospheric Science (0-1), first time 1 hr, subsequently 0 hr when offered
EAS 533 Communicating in Research (2)

Elective Courses (15 credits) from following list:
EAS.511 Computing in Atmospheric Science (2)
EAS.520 Numerical Methods of Prediction (3)
EAS.523 Boundary Layer Meteorology (3)
EAS.524 Tropical Meteorology (3)
EAS.527 Meteorology of Severe Storms (3)
EAS.529 Mesometeorology (3)
EAS.534 Cloud Physics (3)
EAS.538 Statistical Methods in Meteorology (3)
EAS.536 Principles of Radiation Transfer I (3)
EAS.547 Turbulence and convection (3)
EAS.560 Atmospheric Chemistry (3)
EAS.561 Satellite Meteorology (3)
EAS.565 Radar Meteorology (3)
EAS.570 Convection in the Atmosphere (3)
EAS.588 Independent Study (1-3)
EAS.589 Research Seminar (3)
EAS.593 Special Topics in Meteorology (1-3)
EAS.597 Research Topics (1-3)
EAS.598 Graduate Reading Course (1-3)
EAS.648 General Circulation of the Atmosphere (3)
IAS.551 Remote Sensing of Environment & Resources (3)

In addition, up to 9 credits of some upper division (400-level) undergraduate courses in meteorology can be counted towards electives with permission.

Additional Requirements:
Qualifying exam
EAS.595 Special Study for Examinations (0)
6 thesis credits, EAS.599 Thesis Research (0-6)

Master of Science (Professional)

Same as Master (research), except that the 6 hours of thesis research is replaced with 2 elective courses.

Doctor of Philosophy

This degree requires 60 credits (30 after the masters) including 12 credits being dissertation research.

Prerequisite
An undergraduate area of concentration in meteorology

Required Courses
Same as Masters

Elective courses (15 hrs):
Those listed in Masters

EAS 688 Independent Study (1-3)
EAS 698 Graduate Reading Course (1-3)
EAS 693 Special Topics in Meteorology (1-3)

Additional Requirement:
Written and oral preliminary exam
EAS.695 Special Study for Examination (0)
12 credits Dissertation Research, EAS.699 Dissertation Research (0-12)
The doctorate may be pursued directly from the baccalaureate with the permission of the Program Director.

Upper-Division Undergraduate Courses

EAS.405 Petrology (3)
EAS.406 Petrology Laboratory (1)
EAS.410 Sedimentology and Stratigraphy (3)
EAS.418 Stratigraphy (3)
EAS.419 Petroleum Geology (3)
EAS.420 Synoptic Meteorology I (3)
EAS.422 Synoptic Meteorology II (3)
EAS.423 Micrometeorology (3)
EAS.427 Environmental Geophysics (3)
EAS.428 Environmental Geochemistry (3)
EAS.430 Structural Geology (4)
EAS.433 Physical Meteorology I (3)
EAS.434 Physical Meteorology II (3)
EAS.435 Groundwater Hydrology (3)
EAS.437 Earth Dynamics (3)
EAS.440 Engineering Geology (3)
EAS.444 Principles of Dynamic Meteorology I(3)
EAS.445 Principles of Dynamic Meteorology II (3)
EAS.450 Scientific Communications (2)
EAS.451 Principles of Seismic Exploration (2)
EAS.452 Seismic Exploration Laboratory (1)
EAS.453 Principles of Electrical Exploration (3)
EAS.455 Principles of Gravity and Magnetic Exploration (4)
EAS.460 Introduction to the Physics of the Solid Earth (3)
EAS.462 Introduction to Earthquake Seismology (3)
EAS.472 Seismological Instrumentation (3)
EAS.475 Introduction to Geomagnetism (3)

Post-baccalaureate courses

EAS.504 Potential Theory (3)
EAS.506 Physics of Solid Earth (3)
EAS.507 Advanced Coastal Processes and Morphology (3)
EAS.508 Dynamics of the Atmosphere (3)
EAS 509 Physics of the Atmosphere (3)
EAS 511 Computing in Atmospheric Science (2)
EAS.512 Time Series Analysis in Geophysics (3)
EAS.515 Properties of Earth Materials (3)
EAS.517 Divergent and Convergent Margins (3)
EAS.518 Transform Margins and Plate Interiors (3)
EAS.519 Seminar in Geoscience (2)
EAS.520 Numerical Methods of Prediction (3)
EAS.522 Geophysical Data Processing (3)
EAS.523 Boundary Layer Meteorology (3)
EAS.524 Tropical Meteorology (3)
EAS.526 Synoptics and Dynamics of Jet Streams (3)
EAS.527 Meteorology of Severe Storms (3)
EAS.528 Diagnosis and Prediction of Severe Storms (3)
EAS.529 Mesometeorology (3)
EAS 530 Seminar in Atmospheric Science (0-1)
EAS 533 Communicating in Research (2)
EAS.534 Cloud Physics (3)
EAS.536 Principles of Radiative Transfer (3)
EAS.538 Statistical Methods in Meteorology (3)
EAS.539 Seminar in Seismology (2)
EAS.540 Continuum Mechanics in Wave Propagation (3)
EAS.542 Advanced Structural Geology (2)
EAS.543 Isotope Geochemistry (2)
EAS.544 Advanced Sedimentary Geology (2)
EAS.545 Advanced Petrology (2)
EAS.546 Geodynamics (3)
EAS.547 Turbulence (3)
EAS.551 Seismic Exploration Methods (2)
EAS.552 Seismic Exploration Laboratory (1)
EAS.554 Potential and Electrical Exploration Methods (3)
EAS.561 Satellite Meteorology (3)
EAS.565 Radar Meteorology (3)
EAS.570 Convection in the Atmosphere (3)
EAS.572 Seismological Instrumentation (3)
EAS.575 Land-Atmosphere Interaction (3)
EAS.580 Synoptic-Mesoscale Circulations (3)
EAS.588 Independent Study (1-3)
EAS.591 Geoscience Journal Club (0-1)
EAS.593 Special Topics in Earth and Atmospheric Sciences (1-3)
EAS.595 Special Study for Examinations (0)
EAS.597 Research Topics (1-3)
EAS.598 Graduate Reading Course (1-3)
EAS.599 Thesis Research (0-6)
EAS.5CR Master's Degree Study (0)
EAS.610 Advanced Topics in Solid Earth Geophysics (3)
EAS.619 Advanced Seminar in Geophysics (2)
EAS.620 Advanced Geomagnetism (3)
EAS 630 Seminar in Atmospheric Science (1)
EAS.631 Advanced Seismology I (3)
EAS 633 Communicating in Research (2)
EAS.632 Advanced Seismology II (3)
EAS.648 General Circulation of the Atmosphere (3)
EAS.659 Seminar in Numerical Methods of Atmospheric Sciences (3)
EAS.688 Independent Study (1-3)
EAS.691 Geoscience Journal Club (0-1)
EAS.693 Special Topics in Earth and Atmospheric Sciences (1-3)
EAS.695 Special Study for Examinations (0)
EAS.697 Research Topics (1-3)
EAS.698 Graduate Reading Course (1-3)
EAS.699 Dissertation Research (0-6)
EAS.6CR Doctor of Philosophy Degree Study (0)

ENGLISH

Jonathan Sawday, Ph.D.
Department Chairperson

Joseph Weixlmann, Ph.D.
Graduate Program Director

The Graduate Program provides students scholarly training in English language and literature. Encountering courses that span the full experience of works in the English language--from Old Norse to Shakespeare to contemporary and postcolonial writing--students in the program have the chance to pursue specializations in a great variety of literary fields and in the study of rhetoric and composition. Responsive to interdisciplinary interests and to all of the theoretical discourses that connect the study of English language and literature to other literatures and cultures, the program is committed to equipping students with the disciplines and methods of linguistic and literary analysis that will prepare them professionally for the careers they seek.

Master of Arts

Prerequisites
Normally, a B.A. in English (or at least 18 credits of successful work in upper-division undergraduate courses in English) is required. Applicants with different majors who possess strong backgrounds in English and American literature will also be considered.

Required Courses
The Master of Arts requires 30 credits beyond the B.A. Six credits may be taken at the 4000 level. Students are required to take, preferably in their first year, ENGL.5000 Methods of Literary Research and ENGL.5110 Literary Theory. ENGL.5010, The Teaching of Writing, or its equivalent, is also required of those who teach writing classes offered by the Department.

Master of Arts (Thesis)

The M.A. (Thesis) gives students the option of substituting a thesis for six credits of course work. Such students must register for 6 credits of ENGL.5990 (Thesis Research) in their second year.

Madrid Campus

The M.A. and M.A. (Thesis) program are also offered at the Saint Louis University Madrid-Spain campus. Students from the Madrid program are required to enroll in three courses with Frost Campus faculty, two of which should be taken during a one-semester at SLU on the Frost Campus in St. Louis.

Additional Requirements

M.A. students take a one-hour oral examination on works drawn from a list that is made available to them at the outset of their program. M.A. (Thesis) students are also examined orally on their theses.

Advancement to the Doctorate

Admission to the doctorate is made by separate application, in the spring of the master's candidate's second year. Students seeking admission to the doctorate from the master's program must complete a written project testifying to their sustained ability to work independently. This requirement can be satisfied in one of two ways. If they wish, students in their second year may write a Master's Thesis; at the completion of this two-semester process, these candidates graduate with M.A. degrees. Alternately, students contemplating advancement to doctoral study can complete a Master's Essay in one semester. Written under the direction of a faculty member chosen by students, the Master's Essay is shorter than a thesis but nevertheless testifies to students' abilities to independently frame and complete article-length projects (roughly 25-30 pages) of their own design. Students writing a Master's Essay must register for 3 credits of ENGL.598 (a Graduate Reading Course) in the semester in which they undertake this project.

Doctor of Philosophy

Prerequisites
An M.A. or 30 credits in course work in English beyond the B.A., though students from other fields with strong backgrounds in English studies will also receive consideration.

Required Courses
Students are required to take a minimum of 24 credits in English course work beyond the M.A. Six credits may be taken at the 4000 level. ENGL.5000 and ENGL.5110 are required of all students who have not taken the equivalent in another program at another university as part of their prior training. ENGL.5010, The Teaching of Writing, or its equivalent, is also required of those who teach writing classes offered by the Department. After their first year, all Ph.D. students must, over several terms, distribute registrations for 12 credits of ENGL.6990 (Dissertation Research).

Language Requirement
Before taking their comprehensive exams, all Ph.D. candidates must display reading proficiency in one modern foreign language relevant to their research. Students concentrating in medieval or renaissance literature also need to demonstrate competence in either Latin or Classical Greek.

Additional Requirements
Ph.D. candidates will take a Doctoral Competency Exam, which has a written and an oral component. The Written Component takes the form of a Competency Essay, written over the course of seven days, in response to a question based on the texts on the Doctoral Reading List selected by each candidate. These lists are made available to students at the outset of their program.

The Oral Competency Examination Committees are comprised of the three faculty on students' dissertation committees and two other faculty agreed upon by students and their advisors in consultation with the program director and the department chair. The oral exam lasts two hours. The Examination Committee questions students about their Competency Essay, as well as the texts on the chosen Doctoral Reading List. Within one week following successful completion of students' oral examinations, their dissertation committee will meet with them to discuss and give final approval to the dissertation prospectus. If students perform acceptably, they achieve two goals simultaneously: passing the Doctoral Competency Exam and having the dissertation prospectus approved by the dissertation committee. Students are then eligible to write their dissertations. Completed dissertations are assessed by the committee and are formally accepted after a public defense.

Upper-Division Undergraduate Courses

ENGL.4000-4040 Writing and Rhetoric
ENGL.4000 Business and Professional Writing
ENGL.4010 New Media Writing
ENGL.4020 History of Rhetoric I
ENGL.4030 History of Rhetoric II
ENGL.4040 Problems in Rhetoric
ENGL.4050-4090: Creative Writing
ENGL.4050 Advanced Creative Writing: Poetry
ENGL.4060 Advanced Creative Writing: Fiction
ENGL.4070 Advanced Creative Writing: Drama
ENGL.4080 Advanced Creative Writing: Non-Fiction
ENGL.4090 Advanced Creative Writing: Special Topics
ENGL.4100-4120 Language Studies
ENGL.4100 History of the English Language
ENGL.4110 Introduction to Linguistics
ENGL.4120 Language Studies: Special Topics
ENGL.4130-4190 Literary Theory, Cultural Studies, and Film Studies
ENGL.4130 Literary Theory
ENGL.4140 Cultural Studies
ENGL.4150 Ethnic and Race Studies
ENGL.4160 Gender Studies
ENGL.4170 American Film History
ENGL.4180 Film Theory
ENGL.4190 Literary Theory, Cultural Studies, and Film Studies: Special Topics
ENGL.4200-4290 Medieval Literature
ENGL.4200 Introduction to Old English
ENGL.4210 Beowulf
ENGL.4220 Introduction to Old Norse
ENGL.4230 Literature of the Vikings
ENGL.4240 Chaucer: The Canterbury Tales
ENGL.4250 Chaucer: Troilus and Criseyde and Shorter Works
ENGL.4260 Medieval Drama
ENGL.4270 Arthurian Literature: Medieval to Modern
ENGL.4280 The Alliterative Tradition
ENGL.4290 Medieval Literature: Special Topics
ENGL.4300-4390 16th- & 17th-Century Literature
ENGL.4300 The Age of Elizabeth
ENGL.4310 Early Shakespeare
ENGL.4320 Later Shakespeare
ENGL.4330 Renaissance Drama

ENGL.4340 Renaissance Poetry and Prose
ENGL.4350 17th-Century Literature
ENGL.4360 Milton
ENGL.4370 Renaissance Literature and Rhetoric
ENGL.4380 Early Women Writers
ENGL.4390 16th- and 17th-Century Literature: Special Topics
ENGL.4400-4450 Restoration &18th-Century Literature
ENGL.4400 Restoration Literature
ENGL.4410 18th-Century Literature
ENGL.4420 Dryden, Pope, Swift
ENGL.4430 The Age of Johnson
ENGL.4440 Restoration and 18th-Century Drama
ENGL.4450 Restoration and 18th-Century Literature: Special Topics
ENGL.4460-4520 18th- & 19th-Century British Literature
ENGL.4460 The Gothic Novel
ENGL.4470 Crime and Punishment
ENGL.4480 Jane Austen and her Predecessors
ENGL.4490 18th- and 19th-Century Women Writers
ENGL.4500 The Age of Romanticism
ENGL.4510 Romantic Poetry
ENGL.4520 18th- and 19th-Century Literature: Special Topics
ENGL.4530-4590 19th-Century British Literature and Culture
ENGL.4530 The Victorian Age
ENGL.4540 Victorian Fiction
ENGL.4550 Victorian Poetry
ENGL.4560 The Victorian Essay/Prose
ENGL.4570 Victorian Satire
ENGL.4580 Major Victorian Authors/Movements
ENGL.4590 19th-Century Literature: Special Topics
ENGL.4600-4690 20th- & 21st-Century British, Irish, and Postcolonial Literature
ENGL.4600 Topics in British Literature 1900-1945
ENGL.4610 Female/Expatriate Modernism
ENGL.4620 British Postmodernism
ENGL.4630 Nationalism and the Irish Cultural Revival
ENGL.4980 Advanced Independent Study
ENGL.4WU Wash-U Inter University Course
ENGL.4640 Irish Culture and Politics at Mid-20th Century
ENGL.4650 Contemporary Irish Literature, Culture, and Politics
ENGL.4660 Early 20th-Century Postcolonial Literature and Culture
ENGL.4670 Contemporary Postcolonial Literature and Culture
ENGL.4680 Major Postcolonial Writers
ENGL.4690 20th/21st-Century Literature: Special Topics
ENGL.4700-4890 American Literature
ENGL.4700 American Literary Tradition to 1865
ENGL.4710 American Literary Tradition 1865-present
ENGL.4720 Contemporary American Literature
ENGL.4730 Ethnic American Literature
ENGL.4740 19th-Century American Literature
ENGL.4750 19th-Century American Poetry
ENGL.4760 20th-Century American Literature
ENGL.4770 20th-Century American Poetry
ENGL.4780 Recent American Poetry
ENGL.4790 American Drama
ENGL.4800 American Short Story
ENGL.4810 Major American Authors
ENGL.4820 Pre-1900 African American Literature
ENGL.4830 Post-1900 African American Literature
ENGL.4840 Native American Literature
ENGL.4850 Latino American Literature
ENGL.4860 Literature and Culture of the Americas
ENGL.4870 Introduction to Young Adult Literature
ENGL.4880 The Machine Age in American Literature
ENGL.4890 American Literary and Cultural Studies: Special Topics
ENGL.4900-4930 Special Studies
ENGL.4900 Interdisciplinary Studies
ENGL.4910 Internship
ENGL.4920 World Literature: Special Topics
ENGL.4930 Special Topics in Literature
ENGL.4940 Senior Inquiry Seminar
ENGL.4950 Senior Residency

Post-baccalaureate courses

ENGL.5000-5040: Research Methodology and Pedagogy
ENGL.5000 Methods of Literary Research (3)
ENGL.5010 The Teaching of Writing (3)
ENGL.5020 Teaching Literature (3)
ENGL.5040 Problems in Rhetoric (3)
ENGL.5100-5180: Theory and Criticism
ENGL.5100 History of Literary Criticism from Aristotle to the Present (3)
ENGL.5110 Literary Theory (3)
ENGL.5120 Theoretical Perspectives in Medieval Literature (3)
ENGL.5130 Theoretical Perspectives in Renaissance Literature (3)
ENGL.5140 Theoretical Perspectives in Restoration and 18th-Century British Literature (3)
ENGL.5150 Theoretical Perspectives in 19th-Century British Literature (3)
ENGL.5160 Theoretical Perspectives in 20th-Century British Literature (3)
ENGL.5170 Theoretical Perspectives in American Literature (3)
ENGL.5180 Theoretical Perspectives in Contemporary Literature (3)
ENGL.5190-5290: Medieval Literature and Language Studies
ENGL.5190 History of the English Language (3)
ENGL.5200 Introduction to Old English (3)
ENGL.5210 Beowulf (3)
ENGL.5220 Introduction to Old Norse (3)
ENGL.5230 Literature of the Vikings (3)
ENGL.5240 Anglo-Saxon/Old English Literature (3)
ENGL.5250 Old Norse Literature (3)
ENGL.5270 Arthurian Literature (3)
ENGL.5290 Special Topics in Medieval Literature (3)
ENGL.5710 American Fiction, 1900-1950 (3)
ENGL.5800 Film Studies (3)
ENGL.5930 Special Topics (1-3)
ENGL.5950 Special Study for Examinations (0)
ENGL.5980 Graduate Reading Course (1-3)
ENGL.5990 Thesis Research (0-6)
ENGL.5CR Master's Degree Study (0)
ENGL.5UMSL UMSL Inter-University Course (0-3)
ENGL.5WU Wash-U Inter University Course (1-5)

Advanced Graduate Seminars

ENGL.6040 Rhetorical Theory and Discourse Pedagogy (3)
ENGL.6100 Studies in Literary Theory (3)
ENGL.6150 Genre Studies (3)
ENGL.6170 Literary Themes (3)
ENGL.6190 Interdisciplinary Studies (3)
ENGL.6250 Chaucer: The Canterbury Tales (3)
ENGL.6260 Studies in Chaucer (3)
ENGL.6270 Middle English Literature (3)
ENGL.6300 16th-Century Non-Dramatic Literature (3)
ENGL.6310 Renaissance Drama (3)
ENGL.6320 Shakespeare (3)
ENGL.6340 Renaissance Drama (3)
ENGL.6350 17th-Century Literature (3)
ENGL.6360 17th-Century Prose (3)
ENGL.6390 Special Topics in Renaissance Literature (3)
ENGL.6400 Restoration Literature (3)
ENGL.6410 Restoration and 18th-Century Poetry (3)
ENGL.6420 Restoration and 18th-Century Prose Fiction (3)
ENGL.6430 Restoration and 18th-Century Drama (3)
ENGL.6490 Special Topics in Restoration and 18th-Century British Literature (3)
ENGL.6500 Romanticism (3)
ENGL.6510 19th-Century Prose Non-Fiction (3)
ENGL.6520 Victorian Poetry (3)
ENGL.6530 19th-Century Novel (3)
ENGL.6590 Special Topics in Nineteenth-Century British Literature (3)
ENGL.6600 Studies in Modernism (3)
ENGL.6610 20th-Century Fiction (3)
ENGL.6620 20th-Century Poetry (3)
ENGL.6630 20th-Century Drama (3)
ENGL.6650 20th-Century Postcolonial Literature (3)
ENGL.6690 Special Topics in Literature of the 20th Century (3)
ENGL.6700 Early American Literature (3)
ENGL.6710 19th-Century American Literature (3)
ENGL.6720 19th-Century American Poetry (3)
ENGL.6730 19th-Century American Modernism (3)
ENGL.6740 Studies in American Modernism (3)
ENGL.6760 20th-Century American Fiction (3)
ENGL.6770 20th-Century American Poetry (3)
ENGL.6780 20th-Century American Drama (3)
ENGL.6790 Special Topics in 20th-Century American Literature (3)
ENGL.6800 The American Short Story
ENGL.6810 American Film Aesthetics (3)
ENGL.6850 Studies in Comparative Literature (3)
ENGL.6890 Poetry and Theory of Gender after the 1960s (3)
ENGL.6930 Special Topics (1-3)
ENGL.6950 Special Study for Examinations (0)
ENGL.6970 Research Topics (1-3)
ENGL.6980 Graduate Reading Course (1-3)
ENGL.6990 Dissertation Research (0-12)
ENGL.6CR Doctor of Philosophy Degree Study (0)

HISTORY

Philip R. Gavitt, Ph.D.
Department Chairperson

Damian J. Smith, Ph.D.
Director of the Graduate Program

The Department offers the Ph.D. in Medieval, Early Modern, and U.S. History. Master's students may specialize in one of these three fields or in Late Antiquity/Byzantine, Modern European History or World History. Doctoral students must choose a primary and secondary specialty. The secondary area may be in any of the areas cited for Master's degree study or a specialized area constructed in consultation with the departmental advisor and the approval of the graduate committee. The Department participates in the activities of the Center for Medieval and Renaissance Studies and is ranked in the nation's top 100 doctoral programs by U.S. News and World Report.

Master of Arts

Prerequisite
An undergraduate area of concentration in history or the equivalent.

Required Courses
Thirty credits (twenty-seven credits for those enrolled in the combined M.A./Ph.D. program), including HIST.500; a historical studies course and a seminar in the chosen specialty. A maximum of six (6) credits may be taken in academic fields other than history. For those pursuing an M.A. research degree, six (6) credits of thesis research replaces six (6) credits of coursework.

Additional Requirements
Competency in one foreign language to be verified by written examination. A two hour written comprehensive exam and one hour oral for the M.A.; a one-hour oral thesis presentation for M.A. research. (For students continuing on to the Ph.D., an oral presentation of a seminar research paper will replace the thesis requirement).

A formal minor is not permitted.

Doctor of Philosophy (Combined M.A./Ph.D.)

Prerequisites
A Master's degree in the field or the equivalent.

Required Courses
For students entering with an M.A. from another institution, twenty-seven credits; for those pursuing the combined M.A./Ph.D., thirty-six credits total (twenty-seven from the M.A. plus nine (9) additional credits). Course work must include HIST.500 and historical studies courses and seminars in both the primary and secondary specialties. A maximum of six (6) credits may be taken in fields other than history.

Additional Requirements
For Medieval and Early Modern Europe history, competency in two foreign languages, one of which must be Latin. For U.S. history, competency in one foreign language. Full time study for at least one year at SLU. Two four-hour written exams and a two-hour oral exam at the end of coursework. HIST.690/691, prospectus courses leading to the preparation of a prospectus, including a historical essay, before undertaking dissertation research.

Post-baccalaureate courses

HIST.500 Theory and Practice of History: An Introduction (3)
HIST.520 Studies in Late Antiquity and Byzantine History (3)
HIST.521 Advanced Studies in Late Antiquity and Byzantine History (3)
HIST.525 Perspectives in Late Antiquity and Byzantine History (3)
HIST.530 Studies in Medieval History (3)
HIST.531 Advanced Studies in Medieval History (3)
HIST.535 Perspectives in Medieval History (3)
HIST.540 Studies in Early Modern European History (3)
HIST.541 Advanced Studies in Early Modern European History (3)
HIST.545 Perspectives in Early Modern European History (3)
HIST.550 Studies in Modern European History (3)
HIST.551 Advanced Studies in Modern European History (3)
HIST.555 Perspectives in Modern European History (3)
HIST.560 Studies in American History (3)
HIST.561 Advanced Studies in American History (3)
HIST.565 Perspectives in American History (3)
HIST.590 History Teaching Practicum (0)
HIST.593 Special Topics in History (1-3)
HIST.595 Special Study for Examinations (0)
HIST.597 Research Topics (1-3)
HIST.598 Graduate Reading Course (1-3)
HIST.599 Thesis Research (0-6)
HIST.5CR.90 Master's Degree Study (0)
HIST.680 Seminar in Late Ancient and Byzantine History (3)
HIST.681 Seminar in Medieval History (3)
HIST.682 Seminar in Early Modern European History (3)
HIST.683 Seminar in Modern European History (3)
HIST.684 Seminar in American History (3)
HIST.690 Professional Writing for Historians 1 (3)
HIST.691 Professional Writing for Historians 2 (3)
HIST.693 Special Topics in History (1-3)
HIST.695 Special Study for Examinations (0)
HIST.697 Research Topics (1-3)
HIST.698 Graduate Reading Course (1-3)
HIST.699 Dissertation Research (0-6)
HIST.6CR Doctoral Degree Study (0)

INTEGRATED & APPLIED SCIENCES

Paul Jelliss, Ph.D.
Graduate Program Director

Doctor of Philosophy

The Doctor of Philosophy (Ph.D.) program in Integrated and Applied Sciences (I.A.S) utilizes interdisciplinary approaches and collaboration within the fields of Chemistry, Physics, Biology, Biomedical Sciences, and Environmental Sciences to prepare graduates to confidently assume multi-faceted roles in the changing scientific community.

The distribution of courses in the various I.A.S. areas is determined by students' dissertation committees with a minimum total of 48 credits between all three areas. A total of 60 credits are required with the remaining 12 credits coming from dissertation credits. Students and their mentor develop an appropriate coursework track with subsequent approval by the I.A.S. Administrative Committee.

Prerequisites
A Master's or Bachelor's degree in an area appropriate for the proposed interdisciplinary study.

Required Courses
Students choose a core department, completing 25-29 credits of lecture or laboratory-based 500 and 600 level courses. Students are also required to complete the following courses for at least four and up to six semesters:

IAS.601 Interdisciplinary Seminar; and
IAS.603 (Current Topics in) Interdisciplinary Research

Additional Requirements
Students must complete 19-26 credits in courses selected from outside the core department. These may be taken from: Chemistry, Earth & Atmospheric Science, Engineering, Physics, Mathematics & Computer Science, Biology, Biomedical Sciences, Public Health, and Research Methodology. 12 credits of Dissertation Research are required.

Post-baccalaureate courses

GIS.501 Introduction to GIS (3)
GIS.502 Intermediate GIS (3)
GIS.503 Geospatial Methods in Environmental Studies (3)
GIS.504 Introduction to Remote Sensing (3)
GIS.505 Microwave Remote Sensing: SAR principles, data processing and Applications (3)
GIS.506 InSAR - Syntheric Aperture Radar Interferometry (3)
GIS.585 - GIS Capstone
IAS.601 Interdisciplinary Seminar (1)
IAS.603 (Current Topics in) Interdisciplinary Research (2)
IAS.695 Special Study for Examinations (0)
IAS.697 Research Topics (1-3)
IAS.698 Graduate Reading Course (1-3)
IAS.699 Dissertation Research (0-12)
IAS.6CR Doctor of Philosophy Study (0)

MATHEMATICS

James Hebda, Ph.D.
Department Chairperson

Julianne Rainbolt, Ph.D.
Graduate Director

The Department of Mathematics and Computer Science offers programs of instruction and research leading to the Master of Arts and Doctor of Philosophy degrees in Mathematics. The M.A. is intended to prepare students for further study toward the Ph.D. degree or for a career in teaching or industry. The Ph.D. degree program prepares students for research and/or teaching careers in colleges, universities, or industry. The faculties are internationally recognized in many areas of research including topology, differential geometry, algebra and analysis.

Master of Arts

Prerequisite
An undergraduate area of concentration in Mathematics.

Required Courses
Two of the following three sequences must be completed with a grade of "B" or higher in each course:

MATH.511 Algebra I, MATH.512 Algebra II
MATH.521 Analysis I, and one of MATH.522 Complex Analysis, MATH 523 Functional Analysis, and MATH 524 Harmonic Analysis
MATH.531 Topology I, MATH.532 Topology II

No formal minor is permitted.

Additional Requirements
A comprehensive oral exam in the final semester of the program. Master's students have the option of writing a master's thesis. In that case two of the courses during the second year would be devoted to research for the thesis, and the comprehensive oral exam would be replaced by an oral defense of the thesis.

Doctor of Philosophy

Prerequisite
A Master's degree in Mathematics, or Bachelor's degree in Mathematics and a strong background, particularly in analysis and algebra.

Required Courses
Four one-year long sequences:

MATH.511 Algebra I, and MATH.512 Algebra II
MATH.521 Analysis I and one of MATH.522 Complex Analysis, MATH 523 Functional Analysis, and MATH 524 Harmonic Analysis
MATH.531 Topology I and MATH.532 Topology II
MATH.641 Differential Geometry I and MATH.642 Differential Geometry II

Additional Requirements
Written preliminary exams in three out of the four possible areas of algebra, analysis, differential geometry, and topology. An oral exam in a special area of concentration. Demonstration of proficiency in one of the following languages: French, German, or Russian. Proficiency is to be demonstrated by passing a journal/translation examination administered by the department. The culminating requirement for the Ph.D. degree is writing and successfully defending a dissertation that presents the results of the original and independent mathematical research that students have carried out, with the guidance of a faculty member.

No formal minor is permitted.

Upper-Division Undergraduate Courses

MATH.401 Elementary Theory of Probability (3)
MATH.402 Introductory Mathematical Statistics (3)
MATH 403 Probability and Statistics for Engineers (3)
MATH.405 History of Mathematics (3)
MATH.411 Introduction to Abstract Algebra (3)
MATH.412 Linear Algebra (3)
MATH.415 Number Theory (3)
MATH.421 Introduction to Analysis (3)
MATH.422 Metric Space (3)
MATH.423 Multivariable Analysis (3)
MATH.441 Foundations of Geometry (3)
MATH.447 Non-Euclidean Geometry (3)
MATH.448 Differential Geometry (3)
MATH.451 Introduction to Complex Variables (3)
MATH.452 Complex Variables II (3)
MATH.453 Geometric Topology (3)
MATH.455 Nonlinear Dynamics and Chaos (3)
MATH.457 Partial Differential Equations (3)
MATH.463 Graph Theory (3)
MATH.465 Cryptography (3)

Post-baccalaureate courses

MATH.501 Linear Algebra (3)
MATH.502 Metric Spaces (3)
MATH.503 Number Theory (3)
MATH.504 Multivariable Analysis (3)
MATH.511 Algebra (3)
MATH.512 Algebra II (3)
MATH.521 Real Analysis I (3)
MATH.522 Complex Analysis (3)
MATH.523 Functional Analysis (3)
MATH.524 Harmonic Analysis (3)
MATH.531 Topology I (3)
MATH.532 Topology II (3)
MATH.593 Special Topics in Mathematics (1-3)
MATH.595 Special Study for Examinations (0)
MATH.598 Graduate Reading Course (1-3)
Prior permission of instructor and chairperson required.
MATH.599 Thesis Research (0-6)
MATH.5CR Master's Degree Study (0)
MATH.611 Algebra III (3)
MATH.618 Topics in Algebra (3)
MATH.621 Lie Groups and Lie Algebras (3)
MATH.622 Representation Theory of Lie Groups (3)
MATH.628 Topics in Analysis (3)
MATH.631 Algebraic Topology (3)
MATH.632 Topology of Manifolds (3)
MATH.638 Topics in Topology (3)
MATH.641 Differential Geometry I (3)
MATH.642 Differential Geometry II (3)
MATH.648 Topics in Geometry (3)
MATH.695 Special Study for Examinations (0)
MATH.698 Graduate Reading Course (1-3)
Prior permission of instructor and chairperson required.
MATH.699 Dissertation Research (0-6)
MATH.6CR Doctor of Philosophy Degree Study

LANGUAGES, LITERATURES, & CULTURES

Annie K. Smart, Ph.D.
Department Chairperson

Master of Arts in French

Pascale Perraudin, Ph.D.,
Graduate Program Director

The Master of Arts (M.A.) degree program in French offers a diverse curriculum in French language, cultures, and literatures, including Francophone studies, film, and gender studies. The Master of Arts is designed to suit the needs of those planning or already engaged in professional careers such as teaching or international affairs. At the same time, the program provides excellent preparation for studies in French beyond the master's degree.

A Dual Master's Program in French is offered in partnership with the Université de Poitiers, Franc. Students have the unique opportunity of earning an M.A. in French from Saint Louis University and a Master in Lettres Modernes, spécialité Texte et Image, *or* Littérature et Politique from the Université de Poitiers, France.

Qualified students may add a minor in Spanish to their M.A. degree program in French. This combination can be an attractive option for those preparing to teach or work in an environment where competency in two Romance languages would be an asset.

Prerequisite
An undergraduate major in French or the equivalent.

Required Courses

FREN.510 Critical Writing, Oral Expression, and Research;
Nine credits of coursework prior to 1900 and nine credits of coursework after 1900.

Additional Requirements

A final written project to be approved by the graduate examination committee or a written comprehensive examination.
A formal minor may be permitted.

Upper-Division Undergraduate Courses

With the permission of the course instructor and the Graduate Program Director, undergraduate students may petition to enroll in literature and culture courses under the post-baccalaureate (500-level) number.

Post-baccalaureate courses

FREN.500 Teaching College French (0)
FREN.507 Studies in Francophone Culture (3)
FREN.510 Critical Writing, Oral Expression, and Research (3)
FREN.522 French and Francophone Media (3)
FREN.529 Women and Global Issues (3)
FREN.533 French "Moralists" (3)
FREN.534 The Age of Enlightenment (3)
FREN.535 Studies in 19th-Century French Novel (3)
FREN.537 Literature of the Fantastic (3)
FREN.539 Studies in 20th-Century French Prose (3)
FREN.541 Early Modern French Poetry (3)
FREN.542 Studies in 19th-Century French Poetry (3)
FREN.551 Early Modern French Theater (3)
FREN.554 Studies in 20th-Century French Theater (3)
FREN.560 Contemporary Women Writers in France and Quebec (3)
FREN.561 French Cinema (3)
FREN.563 Studies in Francophone Literature (3)
FREN.566 Nation, Identity and Culture (3)
FREN.567 Post colonialism and Violence (3)
FREN.570 Love & Honor in Early Modern France (3)
FREN.571 Women and Writing in Early Modern France (3)
FREN.585 Seminar on Molière (3)
FREN.586 The World of Baudelaire (3)
FREN.587 Exoticism in French Literature (3)
FREN.593 Special Topics in French (1-3)
FREN.595 Special Study for Examinations (0)
FREN.598 Graduate Reading Course (1-3)
FREN.5CR Master's Degree Study (0)

Master of Arts in Spanish

Olga Arbeláez, Ph.D.,
Graduate Program Director

The Master of Arts (M.A.) program seeks to give students a generalist foundation in the areas of Spanish Peninsular and Latin American Literature and Culture as well as in the areas of Teaching and Linguistics. A diverse curriculum makes it possible to gain a solid, up-to-date background in Spanish Studies as well as to broaden the perspective within specific areas of interest.

The program is suited to those planning or already engaged in professional careers such as teaching or international affairs. It also has a record of providing excellent preparation for those electing to continue studies beyond the M.A. degree.

The program is offered on two campuses: Madrid and St. Louis. Students may fulfill all or part of the program requirements on either campus. Students wishing to complete the program exclusively in Madrid have two options: they may complete it in three summers extendable to five, or they may complete it there through a combination of summers and the regular spring and fall semesters.

Prerequisites
An undergraduate major in Spanish or the equivalent.

Course requirements
Of the ten courses required for the degree, two must be in the area of Latin American Studies, two in Peninsular Spanish Studies, and two in Teaching or Linguistics.

Additional Requirements
A final written exam over a reading list and a final oral degree exam over coursework.

A formal minor may be permitted.

Post-baccalaureate courses

SPAN.500 Teaching College Spanish (0)
SPAN.502 Spanish in the World (3)
SPAN.503 Spanish Linguistics (3)
SPAN.504 Methods and Technology for the Teaching of Spanish (3)
SPAN.505 Spanish Phonology and its Place in the Classroom (3)
SPAN.507 Spanish Stylistics (3)
SPAN.508 Learning Texts: Tradition, Authenticity and Virtuality (3)
SPAN.518 Contemporary Spanish Culture and Civilization (3)
SPAN.519 Contemporary Spanish American Culture and Civilization (3)
SPAN.520 Introduction to Literary Criticism (3)
SPAN.524 Short Stories: History, Histories (3)
SPAN.526 Latin American “Modernismo” (3)
SPAN.527 Contemporary Latin American Poetry (3)
SPAN.528 Early Latin American Novel (3)
SPAN.529 Boom, Mass Media and Utopia (3)
SPAN.531 Women Writing Women: Latin American Women Playwrights (3)
SPAN.532 The African Experience in Spanish America (3)
SPAN.533 Narratives on the End of Utopias (3)
SPAN.535 Counter Hegemony Discourses (3)
SPAN.536 Written by Herself: Latin American Women Writers (3)
SPAN.537 Latin American Film (3)
SPAN.538 Cultural Stereotypes: Latin America (3)
SPAN.539 Contemporary Spanish Women Writers (3)
SPAN.543 Three Spanish Literary Masterpieces (3)
SPAN.552 Don Quixote by Cervantes (3)
SPAN.553 Golden Age Lyric Poetry (3)
SPAN.554 Golden Age Drama (3)
SPAN.555 Spanish Jewry in Medieval Spain: Life under Islam and Christianity. Expulsion and Diaspora, 1492-1700 (3)
SPAN.561 Nineteenth-Century Poetry and Drama (3)
SPAN.562 Nineteenth-Century Novel (3)
SPAN.568 Contemporary Spanish Short Story (3)
SPAN.570 Twentieth-Century Poetry (3)
SPAN.571 Twentieth-Century Novel (3)
SPAN.572 Twentieth-Century Drama (3)
SPAN.573 Spanish Literature and Film (3)
SPAN.574 From the Poetry of Knowledge to the Poetry of the Turn of the Century (3)
SPAN.575 Spanish Novel after 1970 (3)
SPAN.577 Carpe Verbum: The Journey of Women Poets in Contemporary Spain (3)
SPAN.593 Special Topics (1-3)
SPAN.595 Special Study for Examinations (0)
SPAN.598 Graduate Reading Course (1-3)
SPAN.5CR Master’s Degree Study (0)

PHILOSOPHY

Theodore R. Vitali, C.P., Ph.D.,
Department Chairperson

The Department of Philosophy offers a range of courses in the history of philosophy with principal emphases on ethics, social and political philosophy, metaphysics and epistemology, and the philosophy of religion. Special resources available to the program include the international philosophical journal, *Res Philosophica (*formerly known as the *Modern Schoolman)*; the Vatican Film Library, the only depository of its kind in the Western hemisphere; and the Center for Medieval and Renaissance Studies of Saint Louis University.

Master of Arts (Non-thesis option)

Prerequisites
Eighteen (18) credits of undergraduate upper-division philosophy coursework.

Required Courses
Thirty (30) credits, 21 of which must be post-baccalaureate credits.
Eighteen (18) credits must be in philosophy and 12 of which must be post-baccalaureate credits.
Completion of the systematic synthesis course (3 credits).
One-hour defense of synthesis paper.

Master of Arts (Thesis option)

Prerequisites
Eighteen (18) credits of upper-division philosophy coursework.

Required Courses
Thirty (30) post-baccalaureate credits, twelve of which must cover the ancient, medieval, modern, and contemporary periods. Six post-baccalaureate credits of thesis research. A master's thesis under the direction of a faculty mentor and two readers is required. The thesis requirement is for six (6) credits that count toward the thirty (30) credit requirement.

Additional Requirements
Completion of a three credit written examination on the history of philosophy covering three of the four periods of history. Reading proficiency in French, German or another foreign language at the discretion of student's supervisory faculty committee. One-hour defense of thesis.

A formal minor may be permitted.

Doctor of Philosophy

Prerequisites
Eighteen (18) credits of upper-division undergraduate coursework.

Required Courses
Sixty-six (66) credits, six of which are prospectus credits and 12 of which are dissertation research credits. The other 54 credits of coursework beyond the bachelor's degree must include: 21 credits in the history of philosophy, namely six in ancient, six in medieval, six in modern and three in contemporary philosophy; 15 credits in topics courses to be distributed over three of the following areas: epistemology, metaphysics, ethics, and social and political philosophy, with nine credits falling within a chosen area of competence; three credits of advanced logic at 400-level or above (for which a departmental examination may be substituted [but without credit]); nine credits of electives; six credits of reading courses on the dissertation topic culminating in dissertation topic prospectus.

Additional Requirements
One course permitted at 400-level. A maximum of nine credits may be taken in a related discipline. A two-hour oral examination on the dissertation prospectus covering: (i) the relationship between the dissertation topic and the broader discipline, whether contemporary or historical, and (ii) the philosophical import of the topic itself. Reading proficiency in both French and German, or in two other foreign languages at the discretion of students' supervisory faculty committee.

A formal minor is permitted.

Upper-Division Undergraduate Course

PHIL.493 Advanced Logic (3)

Post-baccalaureate courses

The next courses address the basic questions raised both in the history of philosophy and the contemporary philosophical setting:

PHIL.500 Introduction to the Graduate Study of Philosophy (0)
PHIL.510 Problems in Epistemology (3)
PHIL.520 Problems in Metaphysics (3)
PHIL.530 Problems in Ethical Theory (3)
PHIL.540 Problems in Social and Political Philosophy (3)
PHIL.580 Systematic Synthesis (3)
PHIL.593 Special Topics in Philosophy (3)
PHIL.595 Special Study for Examinations (0)
PHIL.598 Graduate Reading Course (1-3)
PHIL.599 Thesis Research (0-6)
PHIL.5CR Master's Degree Study (0)
PHIL.600 Seminar on a Major Philosopher in Ethics (3)
PHIL.605 Seminar on a Major Philosopher in Political Philosophy (3)
PHIL.610 Seminar on a Major Philosopher in Metaphysics (3)
PHIL.615 Seminar on a Major Philosopher in Epistemology (3)

The following courses explore on a more advanced plane historical and contemporary philosophical themes:

PHIL.620 Philosophy of Science (3)
PHIL.622 Advanced Logic (3)
PHIL.626 Problems in the Philosophy of Religion (3)
PHIL.630 Advanced Ethics (3)
PHIL.632 Advanced Metaphysics (3)
PHIL.634 Advanced Epistemology (3)
PHIL.636 Seminar in Political Philosophy (3)
PHIL.638 Seminar in Aesthetics (3)

The next four courses examine the major philosophical figures and issues pertaining to periods in the history of philosophy:

PHIL.640 Ancient Philosophy (3)
PHIL.645 Medieval Philosophy (3)
PHIL.650 Modern Philosophy (3)
PHIL.655 Contemporary Philosophy (3)
PHIL.680 Prospectus (3-6)
PHIL.695 Special Study for Examinations (0)
PHIL.697 Special Topics in Philosophy (1-3)
PHIL.698 Graduate Reading Course (1-3)
PHIL.699 Dissertation Research (0-6)
PHIL.6CR Doctor of Philosophy Degree Study (0)

POLITICAL SCIENCE

Ellen Carnaghan, Ph.D.,
Department Chairperson

J. D. Bowen, Ph.D.,
Director of Graduate Studies

James Gilsinan, Ph.D.
Coordinator of the M.P.A. Program

The Political Science department offers an M.A., an accelerated B.A./M.A., an M.P.A., and three dual-degree programs: a dual-degree M.P.A./M.A. in Political Science, a dual degree M.P.A. /J. D, and a dual degree M.P.A./M.S.W.. The Political Science department collaborates with other departments on a minor in Global and Local Social Justice.

The M.A. program allows academically talented students to advance their knowledge and analytical skills by focusing on an interdisciplinary problem-oriented area of concentration within political science. The M.A. is open to individuals who have previously earned a B.S. or B.A. degree in political science or a related social science discipline from an accredited university and demonstrate outstanding potential. Students admitted for M.A. study must have an outstanding undergraduate record and demonstrate the potential for senior leadership in Political Science.

The B.A./M.A. in Political Science offers students the opportunity to complete the B.A. and M.A. degrees in an accelerated 5-year 144 credit program of study (120 as an undergraduate, 30 as a post-baccalaureate student, 6 of those credits counted towards both degrees). Students who have been admitted for undergraduate study at Saint Louis University and select a major in Political Science may apply in their junior year of study to be admitted to the Master's program to complete the linked post-baccalaureate degree.

The Master of Public Administration (M.P.A.) program is designed for mid-career professionals and pre-service students interested in preparing themselves for career in the public or nonprofit sectors at the national, state, and local levels. The M.P.A. provides a unique interdisciplinary range of educational experience and research. In the past, students have participated in projects for the U.S. Departments of Labor, Education, Justice, Health and Human Services, the Brookings Institution, and a variety of regional, state, and local public and private entities. The M.P.A. degree program is accredited by the Network of Schools of Public Policy, Affairs, and Administration (NASPAA).

Accelerated Bachelor of Arts/Master of Arts

Prerequisites
Political Science Major, junior standing, and a grade point average of at least 3.40.

Master of Arts

Prerequisites
B.A. or B.S. in political science or a related social science discipline. This should include at least 18 credits of undergraduate political science courses and an undergraduate social science methods course.

Required Courses
Students will choose a track and focus on American Politics, Gender and Politics, International Affairs, or Political Theory. All students will complete a total of 30 credits for the M.A. degree. Students who select a capstone option involving less than 6 credits will take additional courses to bring the total to 30 credits.

No more than 12 credits of the M.A. may be taken outside Political Science, no more than 6 credits may be taken at the 400-level, and no more than 6 credits may be independent study classes or internships. Some classes have prerequisites. Depending on their undergraduate preparation, students may be required to take specific undergraduate classes prior to enrolling in post-baccalaureate classes. Exceptions will be allowed only with the approval of the Director of Graduate Studies for the department.

Specific requirements for each track are listed below. In addition, each track requires a capstone from the following:

M.A. Thesis (6 credits)
Internship (6 credits)
Professional paper (0 credits)
Comprehensive exam (0 credits)
All M.A. programs require a final oral exam. For Political Science, this exam will be tailored to fit each of the capstone options.

AMERICAN POLITICS - GENERAL TRACK

Core Courses (6 credits)
POLS.510 Seminar in American Politics
POLS.670 American Political Thought

Research Methods (6 credits)
POLS.501 Cultural Methods: Gender, Politics, and Power
POLS.502 Advanced Topics in Research Methods

Other Required Courses (6 credits)
Two more American politics or Public Policy courses
Political Science Electives

AMERICAN POLITICS - PUBLIC LAW TRACK

Core Courses (6 credits)
POLS.510 Seminar in American Politics
POLS.670 American Political Thought

Research Methods (6 credits)
POLS.501 Cultural Methods: Gender, Politics, and Power
POLS.502 Advanced Topics in Research Methods

Other Requirements (6 credits)
Choose two classes from:
POLS.530 Administrative Law
POLS.580 Theories of Constitutional Interpretation
POLS.593 Law and Social Change
Political Science electives

GENDER AND POLITICS TRACK

Core Courses (6 credits)
POLS.576/WGS 501 Feminist Theory
POLS.577/WGS 502 Feminist Epistemology

Research Methods (6 credits)
POLS.501 Cultural Methods: Gender, Politics, and Power
POLS.502 Advanced Topics in Research Methods

Other Required Courses (12 credits)
Choose four classes from:
POLS.513 American Race Relations
POLS.515 Gender and American Politics
POLS.593 Gender, Development, and Sustainability
POLS.593 Islam and Gender
POLS.593 Citizenship and Bodies
POLS.671 Leadership and Culture

INTERNATIONAL AFFAIRS-FOREIGN SERVICE TRACK

Core Courses (6 credits)
Choose two classes from:
POLS.551 Democratization
POLS.555 State and Society
POLS.569 Theories of World Politics

Research Methods (6 credits)
POLS.501 Cultural Methods: Gender, Politics, and Power
POLS.502 Advanced Topics in Research Methods

Other Required Courses
POLS.510 Seminar in American Politics
POLS.562 Global Diplomacy

Language Requirement (6 credits)
6 credits at the 400 or 500-level of the foreign language appropriate to an area of interest.
(Students who have already achieved this level of proficiency may take 6 credits of electives instead.)
Political Science Electives

INTERNATIONAL AFFAIRS- INTERNATIONAL AND COM.P.A.RATIVE POLITICS

Core courses (6 credits)
Choose two classes from:
POLS.551 Democratization
POLS.555 State and Society
POLS.569 Theories of World Politics

Research Methods (6 credits)
POLS.501 Cultural Methods: Gender, Politics, and Power
POLS.502 Advanced Topics in Research Methods
Political Science electives

INTERNATIONAL AFFAIRS-SECURITY AND COOPERATION TRACK

Core Courses (6 credits)
Choose two classes from:
POLS.551 Democratization
POLS.555 State and Society
POLS.569 Theories of World Politics

Research Methods (6 credits)
POLS.501 Cultural Methods: Gender, Politics, and Power
POLS.502 Advanced Topics in Research Methods

Other Required Courses (9 credits)
Choose three classes from:
PPS.535 Intro to GIS
PPS.537 Intermediate GIS
POLS.562 Global Diplomacy
POLS.564 Problems of International Terrorism
POLS.566 Asymmetric War
POLS 593 Policy Process
Political Science Electives

POLICY THEORY TRACK

Required Course (3 credits)
POLS.593 History of Political Thought

Research Methods (3 credits)
POLS.501 Cultural Methods: Gender, Politics, and Power
Other required courses (12 credits)
Choose four classes from:
POLS.573 Contemporary Political Ideologies
POLS.576/WGS 501 Feminist Theory
POLS.670 American Political Thought
POLS.671 Leadership and Culture
POLS.593 Critical Theory and the Frankfurt School
POLS.593 Citizenship and Bodies
POLS.593 Marx's Capital
POLS.577/WGS.502 Feminist Epistemologies
Courses from other departments approved by the Director of Graduate Studies to satisfy this political theory requirement
Political Science electives

PUBLIC POLICY TRACK

Core Courses (6 credits)
POLS.510 Seminar in American Politics
POLS.545 Policy Process

Research Methods (6 credits)
POLS.501 Cultural Methods: Gender, Politics, and Power
POLS.502 Advanced Topics in Research Methods

Other Required Courses (6 credits)
POLS.540 Organizational Theory
POLS.593 Public Finance Theory
Political Science electives
6-12 credits depending on capstone choice

Master of Public Administration

The Master of Public Administration (M.P.A.) program is comprised of course work totaling 36 credits: 18 credits of core courses and 18 credits of concentration courses and electives. In addition, the program requires an Internship (3 credits) for students with limited professional experience in the public sector.

In order to complete the program, students complete a capstone project.

Prerequisites
At least 18 credits in advanced social science or business courses, an introductory inferential statistics course or its equivalent.

Required Courses
PPS.501 Research Methods
PPS.503 Issues in American Public Administration
PPS.512 Introduction to Public Sector Budgeting
PPS.515 Economics of the Public Sector
PPS.540 Organizational Theory and Behavior
PPS.541 Administrative Law

Elective Courses
Elective course work is available in a variety of areas. Students have taken classes in business, social work, American studies, communication and more. Of course, many also take classes offered by Public Policy Studies, including urban affairs, city planning and policy analysis. Typical focus areas for Public Administration students include:

Criminal Justice Policy	Health Care Policy	Organizational Psychology
Finance	Housing Policy	Public Sector Accounting
Fundraising	Nonprofit Management	The Policy Process

Additional Requirements:
Pre-service students are required to take a three credit internship. A total of 36 or, with the internship, 39 credits are required.

A formal minor is not allowed.

M.P.A./M.A. Dual Degree Program

The M.P.A./M.A. dual degree program unites the American and urban focus of public policy analysis with the broad international and theoretical concerns of political science. There are a total of 51 credits of course work required for the M.P.A./M.A.

Required Courses
PPS.540 Organizational Theory and Behavior (3)
PPS.515 Economics of the Public Sector (3)
PPS.512 Introduction to Public Sector Budgeting (3)
PPS.541/POLS.530 Administrative Law (3)
PPS.503 Issues in Public Administration (3)
PPS.501 Research Methods (3)
Three core classes, with two from either the American Politics General Track or the International Affairs General Track (9)
Internship (3)
Political Science electives (9)
Public Policy electives (9)
Capstone (3)

Dual J.D./M.P.A.

The Department of Political Science and the School of Law offer students the opportunity to earn a dual degree in Law and Public Administration (J.D./M.P.A). Students spend the first year of the dual program in the law school. Thereafter, students undertake both M.P.A. and J.D. coursework. Students in the dual degree program take a total of 103 credits of coursework (79 credits in the School of Law and 24 credits from the M.P.A. curriculum). Students complete the same core classes as in the M.P.A.

Dual M.P.A./M.S.W.

The Department of Political Science and the College for Public Health and Social Justice offer students the opportunity to earn a dual degree in Public Administration and Social Work. Students will generally spend the first semester of the dual degree program in Social Work. Thereafter, students undertake both M.P.A. and M.S.W. coursework. Students in the dual degree program take a total of 72 credits.

Upper-Division Undergraduate Courses

PPS.433 Comparative Urban and State Politics (3)
PPS.435 Geographic Information Systems (3)
PPS.450 Research Methods (3)

Post-baccalaureate courses

POLS.501 Cultural Methods: Gender, Politics and Power (3)
POLS.502 Advanced Topics in Research Methods (3)
POLS.510 Seminar in American Politics (3)
POLS.513 American Race Relations (3)
POLS.514 Political Parties and Interest Groups (3)
POLS.517 Seminar in Electoral Politics (3)
POLS.518 Graduate Internship (1-3)
POLS.530/PPS.541 Administrative Law (3)
POLS.532 Environmental Politics and Policy-making (3)
POLS.550 Russian Political Culture (3)
POLS.551 Democratization (3)
POLS.552 Political Change (3)
POLS.555 State and Society (3)
POLS.562 Global Diplomacy (3)
POLS.564 Problems of International Terrorism (3)
POLS.566 Asymmetric Warfare in Two Eras: Vietnam & The Cold War
POLS.569Theories of World Politics (3)
POLS.573 Contemporary political ideologies (3)
POLS.576 Feminist Theory (3)
POLS.577 Feminist Epistemologies (3)
POLS.580 Theories of Constitutional Interpretation (3)
POLS.584 Politics of Health (3)
POLS.585 Politics of the Future (3)
POLS.586 Political Thought of Asia (3)
POLS.588 Graduate Capstone Internship (3-6)
POLS.595 Study for Special Exams (0)
POLS.598 Graduate Independent Study (1-3)
POLS.599 Thesis Research (0-6)
POLS.5CR Master's Degree Study (0)
POLS.670 American Political Thought (3)
POLS.671 Leadership and Culture (3)
PPS.500 The Metropolis (3)
PPS.501 Research Methods (3)
PPS.503 Issues in American Public Administration (3)
PPS.505 Special Topics: Urban and Administrative Theory (3)
PPS.506 Qualitative Research and Evaluation Methods (3)
PPS.512 Introduction to Public Sector Budgeting (3)
PPS.515 Economics of the Public Sector (3)
PPS.518 Human Resource Administration (3)
PPS.520 Crime, Justice and Public Policy (3)
PPS.535 Introduction to Geographic Information Systems (3)
PPS.540 Organizational Theory and Behavior (3)
PPS.541 Administrative Law (3)
PPS.542 Quantitative/Qualitative Modeling (3)
PPS.545 The Policy Process (3)
PPS.546 Organizational Psychology (3)
PPS.547 Organization Analysis (3)
PPS.548 Psychology of Small Groups (3)
PPS.550 History of Cities and Planning (3)
PPS.560 Law, Courts, and Urban Social Change (3)
PPS.570 Health Policy (3)
PPS.576 Poverty Policy (3)
PPS.578 Program Evaluation (3)
PPS.585 Capstone/Project (3)
PPS.589 Field Service (1-6)
PPS.593 Special Topics (1-3)
PPS.594 Internship (3)
PPS.595 Special Study for Examinations (0)
PPS.597 Research Topics (1-3)
PPS.598 Graduate Reading Course (1-3)
PPS.5CR Master's Degree Study (0)
PPS.600 Scope and Methods of Policy Analysis (3)
PPS.608 Industrial Organizations and Anti-Trust Policy (3)
PPS.609 Industrial Organization and Regulatory Policy (3)
PPS.611 Economics of Government-Federal Sector (3)
PPS.612 Financing the Public Sector (3)
PPS.630 Power, Coalition and Decision-Making (3)
PPS.635 Judicial Policy Making (3)
PPS.636 Economics of Government – State and Local Sector (3)
PPS.639: Contemporary Issues in Social Psychology (3)
PPS.649 Topics: Organizational Psychology (3)
PPS.650 Introduction to the Nonprofit Sector (3)
PPS.663 Consultation Skills (3)
PPS.670 Seminar: Law and Society (3)
PPS.678 Corrections Policy (3)
PPS.681 Policy Implementation Theory (3)
PPS.689 Advanced Quantitative Analysis (3)
PPS.693 Special Topics (1-3)
PPS.695 Special Study for Examinations (0)
PPS.697 Research Topics (1-3)
PPS.698 Graduate Reading Course (1-3)
PPS.699 Dissertation Research (0)

PSYCHOLOGY

Jeffrey D. Gfeller, Ph.D.
Department Chairperson

Kimberly Powlishta, Ph.D.
Graduate Director, Experimental Program

Michael J. Ross, Ph.D.
Graduate Director, Clinical Program

Edward J. Sabin, Ph.D.
Graduate Director, Industrial-Organizational Program

EXPERIMENTAL PROGRAM

Master of Science

The Master of Science (M.S.) program in Experimental Psychology includes three concentration areas: Cognitive Neuroscience, Developmental Psychology, and Social Psychology. All areas integrate theory and research in courses, research, and professional experiences. The Cognitive Neuroscience concentration reflects the expertise of faculty in the areas of learning, memory, cognitive aging, sleep, stress, and language processing. The Developmental Psychology concentration emphasizes social aspects of child and adolescent development (e.g., parent-child interaction, gender cognitions, stereotyping and prejudice, cultural influences, identity, emotion understanding, and socio-moral reasoning). The Social Psychology concentration examines the behavior of groups and individuals in a social context, with a focus on self-concept structure, self-regulation, close relationships, stereotyping and prejudice, social justice, the social psychology of health, social exclusion, racial and social identification, and attitudes.

Prerequisites
Minimum of 18 credits of advanced undergraduate courses in psychology, including statistics and research methods.

Required Courses
Six credits of Research Methodology and Statistics; this requirement must be fulfilled by taking PSY.508 Advanced Quantitative Research Methods, and PSY.579 Applied Univariate Statistics in Behavioral Science. Six credits of program core; choose two courses from the following list:
PSY.512 Memory and Cognition
PSY.513 Neuroscience
PSY.530 Advanced Social Psychology
PSY.525 Cognitive Development
PSY.526 Social Development
Twelve credits of electives
Six credits of thesis research (PSY.599)
PSY.595 (Special Study for Exams; 0 credits) during semester in which thesis is defended

Additional Requirements
Continuous enrollment in PSY.584 (Experimental Psychology Research Vertical Team)

Doctor of Philosophy

Prerequisite
Masters of Science in Psychology or equivalent

Required Courses
Statistics and research methods: 12 credits minimum at the post-baccalaureate level (which must include PSY.508, PSY.579, and PSY.650)

Program Core

12 credits of coursework from the following core areas:
Cognitive Psychology: PSY.512 (Memory and Cognition)
Developmental Psychology: PSY.525 (Cognitive Development) or PSY.526 (Social Development)
Neuroscience: PSY.513
Social Psychology: PSY.530

Concentration core:

Nine credits within a concentration area (Cognitive Neuroscience, Developmental Psychology, or Social Psychology). For Cognitive Neuroscience and Social Psychology students, this requirement is met by completing three 600-level seminars (in cognition/neuroscience or social psychology, respectively); for Developmental Psychology students, this requirement is met by completing PSY.525 or PSY.526 (whichever was not taken to complete the Program Core requirement) and two 600-level developmental psychology seminars.

Concentration electives:

Six credits of additional post-baccalaureate level coursework in any of the Experimental concentrations and/or the teaching of psychology.
One credit in Human Diversity (PSY.603)
One credit in Research Ethics (PSY.680)
Twelve credits of dissertation research (PSY.699)
Successful completion of the written preliminary and the oral qualifying exams (enrolling in PSY.695, Special Study for Exams, while completing each exam).
Continuous enrollment in PSY.584 (Experimental Psychology Research Vertical Team).

Note: Some of the coursework required for the Ph.D. may be completed as part of the M.S. requirements.

INDUSTRIAL-ORGANIZATIONAL PROGRAM

Master of Science

The Master of Science (M.S.) program in Industrial-Organizational Psychology prepares doctoral-level professionals with the knowledge, research abilities, assessment skills, and intervention approaches to impact organizational issues at the individual, group, and system levels to improve individual well-being, group functioning, and organizational effectiveness.

Prerequisites
Minimum of 18 credits of advanced undergraduate courses in psychology, including statistics and research methods.

Required Courses
A total of 30 credits of post-baccalaureate level, program approved courses including:
PSY.508 Advanced Quantitative Research Methods (3)
PSY.579 Applied Univariate Statistics in Behavioral Science (3)
PSY.650 Applied Multivariable and Multivariate Statistics in Behavioral Science (3)
PSY.546 Advanced Organizational Psychology (3)
PSY.599 Master's Thesis Research (6)
Program Electives (12)

Additional Requirements
Participation in research/professional activity group each semester.

Doctor of Philosophy

Prerequisite
Master of Science in Psychology

Required Courses
PSY.603 Human Diversity (1)
PSY.680 Ethics and Professional Issues (1)
PSY.699 Dissertation Research (12)
Graduate level statistics and research methods (15)
Graduate level, program approved, industrial-organizational courses (33)

Additional Requirements
Involvement in research/professional practice activities each semester.
Written and oral preliminary examinations.
Additional curricular information is available from the director.

CLINICAL PROGRAM

The Master of Science (M.S.) and Doctor of Philosophy (Ph.D.) in Clinical Psychology is accredited by the American Psychological Association (Office of Program Consultation and Accreditation, American Psychological Association, 750 1st Street, NE, Washington, DC 20002; Phone: (202) 336-5979; Email: apaaccred@apa.org; Web: www.apa.org/ed/accreditation). The program is grounded in the scientist-practitioner model with equal emphasis on research and clinical practice. The program is designed to prepare clinical psychologists to function in academic or multidisciplinary health care settings, providing clinical and research services. Integration of theory, research, methodology, and clinical practice is accomplished through academic coursework, clinical experience, clinical and research teams, and internships. Clinical training is obtained in the Department's Psychological Services Center.

Master of Science

Prerequisites
Minimum of 18 credits of advanced undergraduate courses in psychology, including statistics and research methods.

Required Courses
Statistics: six credits. Research methods: six credits. Thesis research: six credits.

Additional Requirements
PSY.503 Clinical Assessment I (3)
PSY.504 Clinical Assessment II (3)
PSY.552 Psychopathology (3)
PSY.561 Clinical Interventions (3)
PSY.680 Ethics and Professional Issues (3)
PSY.561 Clinical Practicum I (3)
PSY.562 Clinical Practicum II (3)
PSY.586 Clinical Research I (0)
PSY.587 Clinical Research II (0)
PSY.580 Clinical Assessment Practicum I (0)
PSY.583 Clinical Assessment Practicum II (0)
PSY.588 Psychopathology Practicum (0)
PSY.688 Clinical Interventions Practicum (0)

Doctor of Philosophy

Prerequisites
Master of Science in Psychology or equivalent.

Required Courses
Dissertation research: twelve credits.

Additional Requirements
PSY.510 History and Systems (3)
PSY.512 Cognitive-Affective Bases of Behavior (3)
PSY.513 or 593 Biological Aspects of Behavior (3)
PSY.522 Lifespan Developmental Psychology (3)
PSY.530 Social Aspects of Behavior (3)
PSY.639 Human Diversity (3)
PSY.681 Clinical Practicum III (3)
PSY.682 Clinical Practicum IV (3)
PSY.686 Advanced Clinical Research I (0)
PSY.687 Advanced Clinical Research II (0)
PSY.689 Internship in Clinical Psychology (0)
Electives (15)

Post-baccalaureate courses

PSY.503 Clinical Assessment I (3)
PSY.504 Clinical Assessment II (3)
PSY.508 Advanced Quantitative Research Methods (3)
PSY.509 Psychometric Theory (3)
PSY.510 History of Psychology (3)
PSY.512 Memory and Cognition (3)
PSY.513 Neuroscience (3)
PSY.522 Lifespan Developmental Psychology (3)
PSY.525 Cognitive Development (3)
PSY.526 Social Development (3)
PSY.527 Personality Assessment (3)
PSY.530 Advanced Social Psychology (3)
PSY.531 Advanced Personality Theory (3)
PSY.541 Industrial Psychology (3)
PSY.546 Advanced Organizational Psychology (3)
PSY.547 Psychology of Small Groups (3)
PSY.552 Psychopathology (3)
PSY.561 Clinical Interventions (3)
PSY.567 Behavior Therapy (3)
PSY.578 Program Evaluation (3)
PSY.579 Applied Univariate Statistics in Behavioral Science (3)
PSY.580 Clinical Assessment Practicum I (0)
PSY.581 Clinical Practicum I (0-3)
PSY.582 Clinical Practicum II (0-3)
PSY.583 Clinical Assessment Practicum II (0)
PSY.584 Experimental Psychology Research Vertical Team (0)
PSY.585 Practicum: Applied Psychology (0-6)
PSY.586 Clinical Research I (0-3)
PSY.587 Clinical Research II (0-3)
PSY.588 Practicum: Psychopathology (0-3)
PSY.589 Clerkship: Clinical Psychology (0)
PSY.595 Special Study for Examinations (0)
PSY.597 Research Topics (1-3)
PSY.598 Graduate Reading Course (1-3)
PSY.599 Thesis Research (0-6)
PSY.5CR Master's Degree Study (0)
PSY.600 Teaching of Psychology (3)
PSY.603 Human Diversity (1-3)
PSY.604 Topics: Assessment (3)
PSY.606 Topics: Quantitative Psychology (3)
PSY.619 Topics: Cognitive Neuroscience (3)
PSY.629 Topics: Developmental Psychology (3)
PSY.639 Topics: Social Psychology (3)
PSY.649 Topics: Organizational Psychology (3)
PSY.650 Applied Multivariable and Multivariate Statistics in Behavioral Science (3)
PSY.652 Clinical Child Psychology (3)
PSY.659 Topics: Psychopathology (3)
PSY.660 Structural Equation Modeling (3)
PSY.663 Consultation Skills: Theory and Practice (3)
PSY.665 Theories of Child Psychotherapy (3)
PSY.666 Psychodynamic Psychotherapy (3)
PSY.668 Neuropsychological Assessment (3)
PSY.669 Topics: Intervention Strategies (3)
PSY.678 Community Psychology and Primary Prevention (3)
PSY.679 Topics: Applied Psychology (3)
PSY.680 Ethics and Professional Issues (1-3)
PSY.681 Clinical Practicum III (0-3)
PSY.682 Clinical Practicum IV (0-3)
PSY.685 Internship In Applied Psychology (0)
PSY.686 Advanced Clinical Research I (0-3)
PSY.687 Advanced Clinical Research II (0-3)
PSY.688 Practicum: Clinical Interventions (0-3)
PSY.689 Internship: Clinical Psychology (0)
PSY.695 Special Study for Examinations (0)
PSY.697 Research Topics (1-3)
PSY.698 Graduate Reading (1-3)
PSY.699 Dissertation Research (0-6)
PSY.6CR Doctor of Philosophy Degree Study (0)

SOCIOLOGY & ANTHROPOLOGY

Richard A. Colignon Ph.D.
Department Chairperson

Terry Tomazic Ph.D.
Graduate Program Director

The Department of Sociology and Anthropology offers a Master of Arts in Sociology with specializations in Spatial Demography, Urban Social Policy, and Law and Society. The program provides students with the analytic and administrative skills to advance in leadership positions in the public, private and government sectors. The program is distinctive in its blend of academic and practical skills. Courses are taught by an interdisciplinary faculty from Sociology, Anthropology and Public Policy. Students learn from a faculty that are both outstanding scholars and have practical experience. The faculty is engaged in cutting edge research and this research experience is brought into the classroom to enrich and enliven the education of students. Students benefit from the integration of theory and the practical and empirical skills needed in 21st century organizations.

The M.A. degree requires a total of 33 credits of post-baccalaureate study with a minimum of 27 credits of course work. The M.A. is completed either through the thesis or non-thesis tracks. The thesis track includes up to 6 thesis credits while the non-thesis track includes 6 additional credits of course work.

Master of Arts in Sociology

Prerequisites
An undergraduate degree in the social sciences is anticipated but not required. A research methodology quantitative analysis course is anticipated but not required.

Required and Elective Courses
SOC.501 Organizational Theory and Behavior
SOC.505 Quantitative I: Applied Inferential Statistics
SOC.510 Pro-seminar
SOC.520 Urban Ecology
SOC.525 Elementary Forms of Urban Life
SOC.550 Social Inequality
SOC.551 Constructing Social Problems
SOC.552 Sociological Social Psychology
SOC.553 Urban Ethnography
SOC.554 Environmental Impact of the City
SOC.555 Comparative Theories of Race and Ethnic Relations
SOC.559 Law and Society
SOC.560 General Research Methodology
SOC.561 Death Investigation
SOC.564 Demography Methods: Measuring and Modeling
SOC.565 Introduction to GIS
SOC.566 Intermediate GIS
SOC.567 Spatial Demography
SOC.568 Spatial Analytics of Injustice: Crime and Deviance
SOC.570 Applied Spatial Analysis
SOC.575 Intermediate Qualitative Research
SOC.580 Survey Design and Sampling
SOC.585 Program Evaluation and Assessment
SOC.589 Reading Statistics in Research
SOC.610 Regression Analysis and Non-linear Models
SOC.620 Nonparametric Statistical Analysis
SOC.650 Confirmatory Factor Analysis

With the consent of your advisor and the director of the program, students may count other courses as electives.

Minor in Research Methodology

A formal University-wide, minor in Research Methodology is offered and administered through the Department of Sociology and Anthropology. The minor is designed to provide students with a background in advanced analysis and methods. This minor is open to all students and can be tailored to meet students' own disciplinary program needs. Elements of the minor are developed by consensus between students, their advisor/mentor and the Graduate Director in the Department of Sociology & Anthropology. Essentially the minor consists of (with Prerequisites) five courses: a basic, quantitative statistics/analysis course; two advanced quantitative analysis courses; and two advanced research methodology courses. A listing of the courses offered across the University that will fulfill the requirements is given below. Students may petition for the inclusion of additional courses by submitting a copy of the syllabus for such courses. Upon approval, these courses can also be included in the minor.

Process
To be admitted, students must be admitted to a degree-seeking program at Saint Louis University. For a minor, students must first make an application to the Department of Sociology & Anthropology. Then, in consultation with the department's Graduate Director and their advisor/mentor, the minor is developed by determining selections from the three clusters of courses: basic quantitative analysis; advanced methodological design; and advanced statistics/analysis. Once all academic plan forms are signed and courses completed, a petition to amend the minor field is submitted to the Associate Graduate Dean/Director of the college, school, or center appropriate for students, who will sign and file the form with the Registrar. Upon completion, it will be noted as a "Minor in Research Methodology" on the academic transcript.

Students are encouraged to discuss the possibilities of the minor with their advisor/mentor or they can contact the Graduate Director in Sociology. In this way, students can build a minor that is best suited for his/her own needs and the goals in their major program. The minor is designed to be flexible and broad enough to support students across the University.

Prerequisites
Courses currently established as meeting the prerequisite requirement for the Research Method Minor.

CMM.502	Research Methods in Communication
EDH.607	Evidence Based Decision Making for Educational Leaders
EDR.560	General Research Methods
HSCI.530	Research I
MAT.565	Research in Athletic Training
NURS.520	General Research Methods
ORES.510	Research Methods in Health & Medicine
ORES.530	Foundations of Outcomes Research I
PPS.501	Research Methods in Public Policy
PSY.508	Advanced Quantitative Research Methods
SOC.560	General Research Methodology
UPD.501	Research Methods
SWRK.787	Research Methods I

Course List for the Research Methods Minor

Cluster I:
Courses currently established as meeting the basic statistics requirement for the Research Method Minor. *Student must select one course.*

BST.500	Principles of Biostatistics
BST.502	Biostatistical Theory
CAD.505	Introduction to Statistical Inference
EDR.510	Introduction to Inferential Statistics for Educators
NURS.625	Applied Univariate Statistics in Nursing Research
ORES.501	Introduction to Biostatistics for Health Outcomes Research
POLS.500	Political Science Quantitative Research Methods
PPS.517	Introduction to Statistics
PSY.579	Applied Univariate Statistics in the Behavioral Sciences
SOC.505	Quantitative I: Applied Inferential Statistic

Cluster II:
Courses currently established as meeting the advanced methods requirement for the Research Method Minor. *Student must select two courses.*

Advanced general methods

CMM.535 Advanced Research Methods
ORES.531 Foundations of Outcomes Research II
ORLD.502 Organizational Informatics
SWRK.788 Research Methods II

Specializations: Advanced qualitative methods

EDR.640 Intermediate Qualitative Research for Educators
EDR.697 Advanced Qualitative Methods
NURS.614 Interpretative Phenomenology
NURS.615 Applied Interpretive Phenomenology
SOC.553 Urban Ethnography
SOC.575 Intermediate Qualitative Research: Grounded Theory Method
SOC.593 Qualitative Research: Narrative Analysis

Specializations: Data management methods

BST.540 Applied Data Management
EAS.522 Geophysical Data Processing
ORES.516 Data Management

Specializations: Experimental methods

CSDI.505 Experimental Design
SWRK.774 Measurement and Experimental Design in Applied Behavior Analysis

Specializations: GIS methods

Same course offered through six departments

BIOL.517 Introduction to GIS
EAS.501 Introduction to GIS
GIS.501 Introduction to GIS
PPS.535 Introduction to GIS
SOC.565 Introduction to GIS
UPD.535 Introduction to GIS

Specializations: Health design outcome methods

ORES.526 Pharmacoepidemiology
ORES.542 Clinical Trials Design and Analysis
ORES.544 Comparative Effectiveness Research

Specializations: Meta-analysis methods

NURS.651 Research Synthesis and Meta-Analysis
ORES.528 Comprehensive Literature Review & Meta-Analysis

Specializations: Program evaluation methods

Same course offered through two departments

PPS.578 Program Evaluation
SOC.585 Program Evaluation & Assessment
EDR.550 Evaluation of Educational Programs
ORES.541 Evaluation Sciences
PSY.578 Program Evaluation

Specializations: Survey methods and sampling design:

BST.542 Sampling Theory and Survey Design
SOC.580 Survey Design and Sampling

Cluster III:
Courses currently established as meeting the advanced analysis requirement for the Research Method Minor. *Student must select two courses.*

Specializations: GIS and spatial analysis

Same course offered through four departments.

BIOL.518	Intermediate GIS
EAS.502	Intermediate GIS
SOC.566	Intermediate GIS
PPS.537	Intermediate GIS
BIOL.519	GIS in Biology
EAS.503	Geospatial Methods in Environmental Studies
PPS.538	Advanced GIS
SOC.564	Demography Methods: Measuring and Modeling
SOC.567	Spatial Demography: Applied Statistics for Spatial Data
SOC.568	Spatial Analytics of Injustice: Crime and Deviance
SOC.570	Applied Spatial Analysis

Specializations: Other specific advanced analysis courses

BIOL.578	Molecular Phylogenetic Analysis
BIOL.587	Advanced Biometry
BST.510	General Linear Models (GLM)
BST.520	Survival Data Analysis
BST.521	Categorical Data Analysis
BST.522	Multilevel and Longitudinal Data Analysis
BST.523	Bayesian Analysis
BST.530	Exploratory Data Analysis
BST.531	Social Network Analysis
BST.541	Clinical Trials
EDR.610	Intermediate Applied Statistics for Educators
NURS.650	Applied Multivariable & Multivariate Statistics in Nursing Research
ORES.515	Multivariate Analysis of Health Outcomes Research
ORES.540	Pharmacoeconomics
ORLD.503	Applied Analytics
PPS.678	Advanced Quantitative Analysis
PPS.689	Advanced Multivariate Statistical Analysis
PSY.650	Applied Multivariable & Multivariate Statistics in the Behavioral Sciences
PSY.660	Structural Equation Modeling (SEM)
SOC.610	Quantitative II: Regression Analysis and Non Linear Models
SOC.620	Nonparametric Statistical Analysis
SOC.650	Exploratory and Confirmatory Factor Analysis

Specializations: Test and measurement

BIOL.533	Systematic Biology
NURS.602	Measurement of Nursing Variables
ORES.543	Health Outcomes Measurement
PSY.509	Psychometric Theory
SWRK.783	Assessment and Measurement in Clinical Social Work

THEOLOGICAL STUDIES

James R. Ginther, Ph.D.
Department Chairperson

Rubén Rosario-Rodríguez, Ph.D.
Director of M.A. Program

Fr. David Meconi, S.J., D.Phil.
Director of Ph.D. Program

The department offers two degrees, the Master of Arts in theology and the Doctor of Philosophy in historical theology. The M.A. in Theology has two tracks, Research and Religious Education, and the research track has three areas of specialization: Constructive Theology, Theological Ethics, and Historical Theology. The Ph.D. in Historical Theology has three areas of specialization: Early Christianity, Medieval Christianity, and Modern Christianity.

Master of Arts in Theology

The M.A. in Theology brings together two, complementary poles of theological reflection: *retrieval* and *appropriation*. On the one hand, the program equips students with the methodological and conceptual tools necessary for understanding classic theological texts within their historical, cultural, and ecclesial contexts. This emphasis on *retrieval* not only allows for a greater appreciation of the rich and varied traditions out of which contemporary theological reflection emerges; it also gives students a better grasp of the context sensitive character of all human understanding.

On the other hand, the program brings classic theological texts into critical conversation with our contemporary setting. This emphasis on *appropriation* provides students opportunities and skills to think creatively and practically about the ongoing impact of theological reflection, both in the search for human meaning and the task of personal and social transformation. While each area of specialization retains distinguishing characteristics and requirements, all three areas gain an internal coherence through integrating these two poles.

This integration process is the chief goal of the *Theological Sources and Methods Seminar* required of all M.A. students. This seminar introduces students to the major sources and methods for thinking theologically at the post-baccalaureate level. With a triple emphasis on historical methods, theological hermeneutics, and practical theology, the seminar provides students the opportunity to understand and to begin practicing the interrelated tasks of theology.

Prerequisites
An undergraduate major in theology is the standard prerequisite for the M.A. in Theology. However, the Department may admit students who have had at least 18 credits in Theology (or Religious Studies with a strong theological component). The overall concern is that M.A. students have the basic knowledge and skill set to succeed in a post-baccalaureate program in theological studies. Deficiencies may be satisfied through specific, intensive, prerequisite courses offered by the Department of Theological Studies. Applicants with an undergraduate major in the humanities (with a strong liberal arts background) may also apply, although in these cases a greater number of prerequisite courses may be required in their first year.

Required Courses
The M.A. consists of two major tracks, Religious Education and Research (Historical Theology, Constructive Theology, or Theological Ethics). The RE track consists of a two-year program of study that consists of 33 credits of coursework (including 2 semesters/200 credits of supervised internship) and comprehensive exams. RE track students are eligible for a 60% tuition reduction and merit-based Tuition Scholarships. The Research track consists of a two-year program of study that includes 36 credits of coursework, and a 50-70 page thesis. Research track students are eligible for Research Assistantships and merit-based Tuition Scholarships.

TRACK #1: RELIGIOUS EDUCATION

This track is designed to provide students with a strong background in the discipline of theology, including systematic/constructive theology, theological ethics, and scripture, while preparing students who elect the Religious Education track to take 9 credits of courses specific to the challenges of Catholic Religious Education.

The Religious Education track consists of a 33 credit program of study:

THEO.540 Theological Resources and Methods (3 credits)
THEO.500 Biblical Interpretation (3 credits)
Systematic/Constructive Theology (6 credits)
Theological Ethics (3 credits)
Scripture (3 credits)
Elective (6 credits)
Religious Education (9 credits)
THEO.581 Ignatian Spirituality & Pedagogy
THEO.582 Internship (6 credits) / Integration Paper (20-25 pages)
THEO.595 Comprehensive Exams (0 credits)

TRACK #2: RESEARCH

This track is designed to train students in the craft of *academic theology* in a manner that is both *historically conscious* and *ethically-engaged*. All students take courses in systematic/constructive theology, historical theology, theological ethics, and scripture to deepen their understanding of the historical roots and practical implications of theological reflection. The research track offers three areas of specialization, Constructive Theology, Theological Ethics, and Historical Theology.

Students concentrating in Constructive Theology or Theological Ethics must demonstrate proficiency in *one* foreign language, either ancient or modern. Students concentrating in Historical Theology must demonstrate proficiency in *two* foreign languages, one ancient and one modern.

The Research track consists of a 36 credit, two-year program of study, with a 50-70 paged thesis.

SPECIALIZATION #1: CONSTRUCTIVE THEOLOGY

This specialization is designed for students concentrating in *constructive/systematic theology* with a core of course offerings in the doctrinal loci of systematic theology (e.g., Christology, Anthropology, Ecclesiology, and God), while allowing students to take accompanying courses in historical theology, theological ethics, and scripture.

THEO.540 Theological Resources and Methods (3 credits)
Constructive Theology (9 credits)
Theological Ethics (3 credits)
Historical Theology (3 credits)
Scripture (3 credits)
Electives (9 credits)
THEO.599 M.A. Thesis (6 credits)

M.A. Thesis: The M.A. thesis in Constructive Theology (50-70 pages) for a total of 6 credits. This option is especially recommended to students who intend to apply to Ph.D. programs.

Languages: Students must demonstrate proficiency in at least one foreign language, classical or modern (Latin, Greek, German, French, or Spanish).

SPECIALIZATION #2: HISTORICAL THEOLOGY

This specialization is designed for students who wish to emphasize the *historical* dimension of theological reflection. Students select a major area of study (from Early Christianity, Medieval Christianity, and Modern Christianity), while also taking courses in constructive theology, theological ethics, and scripture.

THEO.540 Theological Resources and Methods (3 credits)
THEO.520 Introduction to Historical Method (3 credits)
Historical Theology (9 credits)
Theological Ethics (3 credits)
Constructive Theology (3 credits)
Scripture (3 credits)
Electives (6 credits)
THEO.599 M.A. Thesis (6 credits)

M.A. Thesis: Students will compose an M.A. thesis in Historical Theology (50-70 pages) for a total of 6 credits.

Languages: Students must demonstrate proficiency in two Foreign languages—one ancient (Latin or Greek), and one Modern (German or French).

SPECIALIZATION #3: THEOLOGICAL ETHICS

This specialization focuses on theological ethics, emphasizing the importance of historical grounding while engaging the contemporary context, by providing a core of courses in moral theology supplemented by courses in constructive theology, historical theology, and scripture.

THEO.540 Theological Resources and Methods (3 credits)
Theological Ethics (9 credits)
Constructive Theology (3 credits)
Historical Theology (3 credits)
Scripture (3 credits)
Electives (9 credits)
THEO.599 M.A. Thesis (6 credits)

M.A. Thesis: The M.A. thesis in Theological Ethics (50-70 pages) for a total of 6 credits.

Languages: Students must demonstrate proficiency in at least one foreign language, classical or modern (Latin, Greek, German, French, or Spanish).

Doctor of Philosophy in Historical Theology

Prerequisites
M.A. degree in Historical Theology or the equivalent
Nine credits of undergraduate and/or M.A. philosophy courses
Nine credits of undergraduate and/or M.A. history courses
Competency in at least one research language besides English (usually Greek, Latin, French, German or Italian).
Deficiencies may be satisfied through specific, intensive, prerequisite courses offered by the Department of Theological Studies.

Required Courses (54 credits)
The program requires two years of coursework (36 credits), and a third year dedicated to dissertation related research (18 credits). The remaining two years focus on dissertation writing, which does not require credits. Moreover, students are expected to have a major area (12 credits of doctoral seminars) and a minor area (6 credits of doctoral seminars; *a formal minor is not permitted*) chosen from the three possible areas of specialization: Early Christianity, Medieval Christianity, and Modern Christianity. By the end of the first year, students are required to declare their major/minor.

The thirty-six credits derive from the following options:
THEO.601 Methods in Historical Theology (3 credits) required of all students
Historical Theology Surveys (9 credits) required of all students
THEO.602 Early Christianity
THEO.603 Medieval Christianity
THEO.604 Modern Christianity

Major Seminars (12 credits) chosen according to declared major field
THEO.611 Early Christianity
THEO.612 Medieval Christianity
THEO.613 Modern Christianity

Minor Seminars (6 credits) chosen according to declared minor field
THEO.611 Early Christianity
THEO.612 Medieval Christianity
THEO.613 Modern Christianity

Electives (6 credits)
Chosen from any post-baccalaureate course offered (500/600 level)

Dissertation research (18 credits)
Dissertation Prospectus (6 credits)
Dissertation Research (12 credits)

Additional Requirements
All Ph.D. students are required to demonstrate competency in *three* languages before advancement to their dissertation field exam in the second year. One language must be ancient and one modern. The language choices of students are determined by their research specialty as approved by the Director of the Ph.D. program in consultation with the chair of their comprehensive examination board.

The language possibilities include, but are not limited to: Greek, Latin, Syriac, German, French, Spanish or Italian.

Prior to acceptance into the program, students must assure competency in at least one of the above languages. Students must demonstrate this competency during the first year of study. If competency is not demonstrated during the first year, students will be removed from the program.

In addition to the three language requirements for advancement to Ph.D. candidacy, other languages to conduct research for the dissertation may be required by the director of the candidate's dissertation. The dissertation is the final arbitrator of the languages required.

Masters Courses

Biblical Theology

THEO.500 Biblical Interpretation (3)
THEO.502 Pentateuch (3)
THEO.503 Historical Books (3)
THEO.504 Prophets (3)
THEO.505 Wisdom Literature (3)
THEO.506 The Psalms (3)
THEO.509 Special Topics: Old Testament (3)
THEO.510 New Testament (3)
THEO.511 The Synoptics (3)
THEO.512 Luke-Acts (3)
THEO.513 Paul (3)
THEO.514 Johannine Literature (3)
THEO.519 Special Topics: New Testament (3)

Historical Theology

THEO.520 Methods in Historical Theology (3)
THEO.521 Survey of Early Christian History, 200-600 (3)
THEO.522 Survey of Medieval Christian History, 600-1500 (3)
THEO.523 Christianity, 1500-2000 (3)
THEO.525 Survey of the History of Religions (3)
THEO.526 Comparative Theology (3)
THEO.539 Special Topics: Historical Theology (3)

Systematic Theology

THEO.540 Theological Resources and Methods (3)
THEO.542 God (3)
THEO.544 Christology (3)
THEO.545 Theology of the Human Person (3)
THEO.547 Ecclesiology (3)
THEO.550 Sacraments (3)
THEO.559 Special Topics: Systematic Theology (3)

Moral Theology

THEO.560 Contemporary Moral Theology (3)
THEO.562 Fundamental Moral Theology (3)
THEO.563 Social Ethics (3)
THEO.564 Family Ethics (3)
THEO.565 Bioethical Controversies (3)
THEO.568 History of Moral Theology (3)
THEO.569 Special Topics: Moral or Pastoral Theology (3)

Spirituality

THEO.573 Spirituality and Psychology (3)
THEO.579 Special Topics: Spirituality (3)

Religious Education Miscellaneous

THEO.580/EDF.561 Foundations of Catholic Education (3)
THEO.581 Ignatian Spirituality & Pedagogy (3)
THEO.582 Internship (6 credits)
THEO.595 Special Study for Examinations (0)
THEO.598 Graduate Reading Course (1-3)
THEO.599 Essay Guidance: M.A. Thesis (6)

Doctoral Courses in Historical Theology

THEO.601 Methods in Historical Theology (3)
THEO.602 Survey of Early Christian History, 200-600 (3)
THEO.603 Survey of Medieval Christian History, 600-1500 (3)
THEO.604 Survey of Early Modern: 1500-2000 (3)
THEO.611 Early Church Seminar (0 or 3)
THEO.612 Medieval Seminar (0 or 3)
THEO.614 Modern Seminar (0 or 3)
THEO.621 Prospectus (3)
THEO.693 Special Topics in Historical Theology (3)
THEO.695 Special Study for Examinations (0)
THEO.697 Research Topics (1-3)
THEO.698 Graduate Reading Course (1-3)
THEO.699 Dissertation Research (0-9)
THEO.6CR Doctor of Philosophy Degree Study (0)

SCHOOL OF LAW

Michael A. Wolff, J.D.
Dean and Professor of Law

Michael J. Kolnik, J.D.,
Assistant Dean and Director of Admissions

As a Jesuit institution founded in 1843, Saint Louis University School of Law (SLU LAW) strives to foster an environment of academic excellence and a commitment to public service and professionalism. With an accomplished faculty and a diverse curriculum designed to prepare students for all areas of legal practice, the School provides an ideal environment for those committed to succeeding. Through its Center for Health Law Studies, the School also offers one of the premier health law programs in the nation, along with specialized Centers in Employment Law and International and Comparative Law. Whatever the interest - corporate, criminal, employment, finance, health, international, intellectual property, public service, tax, real estate or litigation - SLU LAW can help students achieve their desired career goals. Click here for comprehensive information about our different concentrations.

In Fall 2013, we welcomed our students to our new building, Scott Hall, located in the heart of downtown St. Louis. The newly renovated building provides top rate facilities to our students and affords them the opportunity to integrate their legal education with the downtown legal community.

SLU LAW offers full-time day, part-time day or part-time evening programs. Students are presented with a variety of opportunities for experiential education. Professional skills programs are available to all students after the first year of studies. Students have a range of options including simulated arguments before the Supreme Court, contract drafting and participating in our various legal clinics. The Legal Clinics allow students, under supervision from trained faculty, to represent clients in need at court. Additionally, students have an opportunity to clerk for judges and participate in externships at various corporations and government agencies. Through our clinic programs, our students annually provide 40,000 hours of free legal services to the local community.

In the spirit of the Jesuit tradition of "men and women for others," SLU LAW focuses on the commitment to public service as part of the legal profession. Public service projects begin at orientation and opportunities continue throughout the program.

For more information, visit SLU LAW's web site or contact the Admissions Office through email or phone at (314) 977-2800. If you would like to meet with an admissions counselor or take a tour of our new building, you may schedule an appointment by calling (314) 977-2800.

Application requirements for the J.D. degree:
Bachelor's degree from an accredited college or university is required. Exceptions may be made on a case by case basis by the Admissions Committee as authorized by ABA Accreditation Standards Section 502(A).

Registration for the Law School Admission Test (LSAT), the LSAC Credential Assembly Service (CAS) and the LSAC Letter of Recommendation Service (LOR). No application is complete without test scores and transcript analysis from LSAC's CAS. We do accept evaluation forms through the LSAC Evaluations Service, but they are not required. SLU LAW highly recommends that applicants take the LSAT in the summer or fall prior to the year they wish to enter law school. SLU LAW will only consider LSAT scores earned within the last three years.

All transcripts must be forwarded directly to the CAS. SLU LAW will request the LSAC CAS Report upon receipt of the application.

Letters of Recommendation
SLU LAW requires applicants to use the LSAC Letter of Recommendation Service. A minimum of two letters is required, and we will accept up to four letters. We encourage applicants to request letters from individuals who can accurately assess their intellectual ability, motivation, character and academic performance. We place value on content that verifies the qualifications of the applicant to compete in the law school environment.
Send letters of recommendation to:

Law School Admission Council
662 Penn Street
PO Box 8508
Newtown, PA 19840-8505
Phone: (215) 968-1001

Personal Statement
The Personal Statement is a way for applicants to communicate information about themselves that is not found in the rest of the application. The Personal Statement provides the Admissions Committee with insight into the applicant's writing ability and individual character. Information regarding personal or professional goals, academic performance and career history is helpful. The Admissions Committee looks for brevity and clarity of thought and expression. Please limit the personal statement to two pages.

Important: It is the responsibility of each applicant to provide the Admissions Office with all the necessary documents. The applicant is encouraged to contact the Admissions Office throughout the admissions process to confirm receipt of application materials at admissions@law.slu.edu or by phone at (314) 977-2800. Incomplete applications will not be reviewed. Click here for more information or to apply online.

Admissions Determination
The Admissions Committee considers several factors in determining a candidate's eligibility: academic achievement, strength of the undergraduate program, application information, LSAT results (the Admissions Committee looks only at the applicant's highest score), personal statement, work experience, degrees earned, motivation, leadership and service.

Dual Degree Programs

SLU LAW also offers dual degree programs in partnership with several schools within the University. Dual degree programs are designed to allow students to obtain two degrees in significantly less time (4-5 years, depending upon the degree) than if the degrees were obtained separately.

Dual degree students must meet the admissions criteria for both the School of Law and the school from which the doctoral or master's degree is sought. Application for both should be made either at the same time or during the first year of enrollment in the School of Law. Dual degree students are required to complete a minimum of 82 credits in the School of Law.

The School of Law has established dual degree programs with the post-baccalaureate programs outlined below. In addition, the School of Law will consider fashioning a dual degree program to meet individual student interest.

Juris Doctor and Master of Accounting
Juris Doctor and Master of Arts in Law and Sociology & Anthropology
Juris Doctor and Master of Arts in Public Administration
Juris Doctor and Master of Business Administration
Juris Doctor and Master of Health Administration
Juris Doctor and Master of Public Health - Health Policy
Juris Doctor and Doctor of Philosophy in Health Care Ethics
Juris Doctor and Master of Science in Health Outcomes Research & Evaluation Sciences
Juris Doctor and Master of Social Work
Juris Doctor and Master of Urban Planning and Development

Masters of Laws Programs

For those already possessing a law degree, SLU LAW offers two Masters of Laws (LL.M.) programs. The Center for Health Law Studies offers the LL.M. in Health Law. For those holding a degree of law from a foreign country, the LL.M. in American Law for Foreign Lawyers program offers opportunities to study the American legal system.

Course Listing
Click here for SLU LAW's complete academic curriculum and program requirements.

SCHOOL OF MEDICINE

Philip O. Alderson, M.D.
Dean

In addition to contributing strongly to the first two years of the Doctor of Medicine degree curriculum, the pre-clinical, medical-science departments offer post-baccalaureate work leading to the Ph.D. degree. Five offerings, each affiliated with an individual department or center, are available; however, most students admitted for direct Ph.D.-degree study take a common, first-year core in the basic biomedical sciences. Furthermore, studies toward the Ph.D. degree in a medical-science field may be combined with the M.D.-degree curriculum, and the two degrees pursued concurrently by selected students. M.S. (Research or non-Research) and Ph.D. degrees also are offered by the Center for Anatomical Science and Education.

BASIC BIOMEDICAL SCIENCE

Willis K. Samson, Ph.D.,
Graduate Program Director

Admission to all Ph.D. degree programs in the biomedical sciences is by application to the core program in Basic Biomedical Science. This interdisciplinary offering is intended for all students who are interested in biomedical research and/or teaching careers. Its objectives are to provide students with a strong foundation in all aspects of basic biomedical science and the freedom to explore diverse research opportunities during the first year of training. The first-year curriculum combines lectures, small group discussion sessions, and seminars to develop self-confidence and familiarity with a breadth of biomedical science and technology that spans the disciplines of anatomical, biochemical, cellular, molecular, developmental, genetic, and physiological sciences. At the end of this integrated first-year program, students select a dissertation research topic and mentor, and enter into one of four departmental programs in the School of Medicine [Biochemistry and Molecular Biology; Molecular Microbiology and Immunology; Pathology; Pharmacological and Physiological Science]. The subsequent requirements for completion of the Ph.D. degree vary with the individual program and include specialized advanced courses and the performance of original research leading to completion of the dissertation.

Required Courses
BBS.501 Basic Biomedical Science I;
BBS.502 Special Topics in Basic Biomedical Science I;
BBS.503 Basic Biomedical Science II;
BBS.504 Special Topics in Basic Biomedical Science II; and
BBS.510 Responsible Conduct in Research.

Additional Requirements

BBS.592 Basic Biomedical Science Colloquium (both semesters) and
BBS.597 Introduction to Basic Biomedical Research (both semesters)
BBS.501 Basic Biomedical Science I (5)
BBS.502 Special Topics in Basic Biomedical Science I (4)
BBS.503 Basic Biomedical Science II (5)
BBS.504 Special Topics in Basic Biomedical Science II (4)
BBS.510 Responsible Conduct in Research (0)
BBS.592 Basic Biomedical Science Colloquium (1)
BBS.597 Introduction to Basic Biomedical Research (2)

BIOCHEMISTRY & MOLECULAR BIOLOGY

Enrico Di Cera, M.D.
Department Chairperson

Dale Dorsett, Ph.D.
Graduate Program Director

Students with bachelor's degrees enter the Biochemistry and Molecular Biology program after acceptance into and completion of the one-year Basic Biomedical Science core program. After receiving a firm background in the fundamentals of biomedical science and the opportunity to experience research in different laboratories during this first year, students select a faculty mentor and a specific program. Graduate training in the Department of Biochemistry and Molecular Biology includes advanced coursework, instruction in the preparation of a written research proposal, oral defense of a written proposal for dissertation research, and performance of original laboratory research leading to the Ph.D. dissertation. Flexibility is provided for optional training in secondary areas such as teaching or scientific writing.

Doctor of Philosophy

Prerequisites
Equivalent of an undergraduate major in chemistry, biology or a related subject

Required Courses
BBS.501 Basic Biomedical Science I;
BBS.502 Special Topics in Basic Biomedical Science I;
BBS.503 Basic Biomedical Science II;
BBS.504 Special Topics in Basic Biomedical Science II;
BBS.510 Ethics for Research Scientists
BCHM.623 Macromolecules: Structure, Function, and Interactions
BCHM.624 Molecular Basis of Human Disease
BCHM.625 Preparation and Evaluation of Scientific Research Proposal
BCHM.628 Introduction to Genomics & Bioinformatics
ORES 520 Introduction to Statistics in Biomedical Sciences

Additional Requirements
BBS.592 Basic Biomedical Science Colloquium (two semesters);
BBS.597 Introduction to Basic Biomedical Research (two semesters)
BCHM.691 Biochemistry and Molecular Biology Journal Club (two semesters)
BCHM.692 Biochemistry and Molecular Biology Colloquium (one semester)
Additional coursework in chemistry or biology may be required at the discretion of the Department Chairperson or Graduate Program Director. Program may include courses in one of the fields of preclinical medicine as electives.

Additional Requirements for the Doctorate
Total post-baccalaureate credits toward preliminary examinations for the doctorate: at least 36. A formal minor to accompany the doctoral major in Biochemistry and Molecular Biology may be taken at the discretion of the Department Chairperson. All students are expected to participate in the Biochemistry and Molecular Biology Journal Club throughout their tenure.

Post-baccalaureate courses

BCHM.595 Special Study for Examinations (0)
BCHM.5CR.90 Master's Degree Study (0)
BCHM.599 Thesis Research (0-6)
BCHM.623 Macromolecules: Structure, Function, & Interactions (3)
Prerequisite: Permission of Instructor.
BCHM.624 Molecular Basis of Human Disease (3)
Prerequisite: Permission of Instructor.
BCHM.625 Preparation of Scientific Research Proposals (3)
Prerequisite: Permission of Instructor.
BCHM.628 Introduction to Genomics and Bioinformatics (2)
Prerequisites: BBS.501 and BBS.502 or consent of the Instructor.
BCHM.691 Biochemistry and Molecular Biology Journal Club (1)
Prerequisite: Permission of Instructor.
BCHM.692 Biochemistry and Molecular Biology Colloquium (1)
Prerequisite: Permission of Instructor.
BCHM.695 Special Study for Examinations (0)
BCHM.697 Research Topics (1-3)
Prior permission of guiding professor and department/program chairperson required.
BCHM.698 Graduate Reading Course (1-3)
Prior permission of guiding professor and department/program chairperson required.
BCHM.699 Dissertation Research (0-6)
BCHM.6CR.99 Doctor of Philosophy Degree Study (0)

MOLECULAR MICROBIOLOGY & IMMUNOLOGY

William S. M. Wold, Ph.D.
Department Chairperson

John Tavis, Ph.D.
Graduate Program Director

The Department of Molecular Microbiology and Immunology offers a program in molecular microbiology and immunology leading to the Ph.D. degree. Our goal is to graduate exceptionally well-trained researchers who are prepared for a career in academic science or biotechnology. Students with a bachelor's degree enter the program following successful completion of the year-long Basic Biomedical Sciences core program, which provides a strong foundation for specialization in microbiology and/or immunology. Students with master's or doctoral degrees may petition for direct entry to the Molecular Microbiology and Immunology program. Research in the Department is diversified. Areas of research emphasis include cell and molecular biology, virology, and immunology. Graduate training in the Department includes advanced coursework, training in scientific writing and oral presentation skills, and performance of original laboratory research leading to the Ph.D. dissertation. Training in teaching skills is provided for students interested in an academic career.

Doctor of Philosophy

Prerequisites
Coursework in college physics, organic chemistry, and the biological sciences.

Required Courses
Through the Basic Biomedical Sciences core program:

BBS.501 Basic Biomedical Science I
BBS.502 Special Topics in Basic Biomedical Science I
BBS.503 Basic Biomedical Science II
BBS.504 Special Topics in Basic Biomedical Science II
BBS.510 Ethics for Research Scientists
BBS.592 Basic Biomedical Science Colloquium (2 semesters)
BBS.597 Introduction to Basic Biomedical Research (2 semesters)
BCHM.628 Introduction to Genomics and Bioinformatics
RMET.597 Biostatistics for Medical Sciences

Through the Microbiology and Immunology program:
MB.635 Virology
MB.665 Basic Immunobiology
MB.691 Microbiology Journal Club (each fall semester)
MB.692 Microbiology Colloquium (each spring semester)

Additional Requirements
Minimum post-baccalaureate credits in preparation for preliminary degree examination: 36. Students are required to submit a grant proposal to an outside agency for extramural research and/or stipend support within six months of successfully passing the Candidacy Examination. Funding of the external grant application is not required for successful completion of the Ph.D. degree.

A formal minor is not permitted without special approval from the Microbiology and Immunology program.

Post-baccalaureate courses

MB.531 Introduction to Research Techniques and Topics (1-3)
MB.624 Advanced Topics in Immunology (2-3)
MB.635 Virology (3)
MB.665 Basic Immunobiology (3)
MB.675 Immunology Journal Club (2)
MB.682 Advanced Topics in Virology and Cell Biology (1-3)
MB.691 Microbiology Journal Club (0-1)
MB.692 Microbiology Colloquium (0-1)
EMB.695 Special Study for Examinations (0)
MB.697 Research Topics (0-3)
MB.698 Graduate Reading Course (1-3)
MB.699 Dissertation Research (0-6)
MB.6CR Doctor of Philosophy Degree Study (

PATHOLOGY

Carole Vogler, M.D.,
Department Chairperson

Jacki Kornbluth, Ph.D.,
Graduate Program Director

The program in the Department of Pathology offers training in biomedical research with a strong emphasis in medically important areas including tumor biology and cardiovascular and liver pathobiology. Students will acquire knowledge of basic disease processes, learn research methodologies, and utilize state-of-the-art cell and molecular biology techniques in preparation for research careers. In addition to the standard array of equipment necessary for performing basic biochemical and cellular biology, the Pathology Department also contains well-equipped facilities for flow cytometry, single-cell microinjection, video and confocal microscopy, laser capture microdissection, and scanning and transmission electron microscopy.

Doctor of Philosophy

Prerequisites
An undergraduate degree in biology or chemistry. Advanced biology coursework is recommended.

Required Courses
BBS.501 Basic Biomedical Science I;
BBS.502 Special Topics in Biomedical Science I;
BBS.503 Basic Biomedical Science II;
BBS.504 Special Topics In Biomedical Science II;
BBS.510 Ethics for the Research Scientist;
PATH.501 Pathobiology;
PATH.502 Molecular Pathobiology

Additional Requirements
BBS.592 Basic Biomedical Science Colloquium (two semesters);
BBS.597 Introduction to Basic Biomedical Research (two semesters);
PATH.691 Molecular Pathobiology Journal Club; and
PATH.692 Pathology Research Colloquium

Post-baccalaureate credits in preparation for preliminary degree examinations: minimally 36.

A formal minor is not permitted.

Post-baccalaureate courses

PATH.501 Pathobiology (5)
PATH.502 Molecular Pathobiology (4)
PATH.535 Introduction to Microscopy Techniques (3)
PATH.538 Immunopathology (3)
PATH.691 Molecular Pathobiology Journal Club (1)
PATH.692 Pathology Research Colloquium (1)
PATH.693 Special Topics in Pathology (1-3)
PATH.695 Special Study for Examinations (0)
PATH.697 Research Topics (1-3)
PATH.698 Graduate Reading Course (1-3)
PATH.699 Dissertation Research (0-6)
PATH.6CR.99 Doctor of Philosophy Degree Study (0)

PHARMACOLOGICAL & PHYSIOLOGICAL SCIENCE

Thomas P. Burris, Ph.D.
Department Chairperson

Mark M. Voigt, Ph.D.
Vice-Chairperson

Terrance M. Egan, Ph.D.
Graduate Program Director

The program in the Department of Pharmacological and Physiological Science is designed to prepare students for a career in research and teaching in this area of biomedical science. The program combines formal coursework, advanced seminars, lab rotations and in-depth training in one of the laboratories of the Faculty. The Faculty available as mentors have diversified backgrounds in the fields of biochemistry, molecular biology, nuclear receptors, neuroscience, pharmacology and physiology. Major areas for research specialization include neurotransmitter biochemistry, physiology and pharmacology; molecular biochemistry and molecular pharmacology of neurotransmitter, autacoid, neurohormone and hormone receptors and their signaling mechanisms; electrophysiology; neurochemistry; cardiovascular control mechanisms; molecular cellular and endocrine control mechanisms, neuropharmacology, and pharmacology of drugs of abuse.

Doctor of Philosophy

Prerequisites
Background in biology, chemistry (general and organic; physical chemistry recommended, but not required), physics, and mathematics (including calculus). Deficiencies in the background requirements may be made up early during the program if an applicant is otherwise acceptable for admission into the program.

Required Courses
BBS.501 Basic Biomedical Science I;
BBS.502 Special Topics in Basic Biomedical Science I;
BBS.503 Basic Biomedical Science II;
BBS.504 Special Topics in Basic Biomedical Science II;
PPY.511 Advanced Topics in Pharmacological and Physiological Science I;
PPY.513 Advanced Topics in Pharmacological and Physiological Science II

Additional Requirements
BBS.592 Basic Biomedical Science Colloquium (two semesters);
BBS.597 Introduction to Basic Biomedical Research (two semesters);
PPY.680 Pharmacological and Physiological Science Seminar; and
PPY.691 Pharmacological and Physiological Science Journal Club

Participation and attendance required in the Seminar and Journal Club during entire tenure of residency, whether or not students are formally enrolled in them.

A formal minor at the Master's level is not permitted.

Additional Requirements for Doctor of Philosophy degree:

Competency in statistics; knowledge of ethical conduct of research and rotation through research laboratories during the first year. Credits in preparation for preliminary examinations total 36 minimum if degree pursued directly from the baccalaureate.

A formal minor is not permitted

Post-baccalaureate courses

PPY.511 Advanced Topics in Pharmacological and Physiological Science I (4)
PPY.512 Selected Topics in Pharmacological and Physiological Science I (2)
PPY.513 Advanced Topics in Pharmacological and Physiological Science II (4)
PPY.514 Selected Topics in Pharmacological and Physiological Science II (2)
PPY.595 Special Study for Examinations (0)
PPY.599 Thesis Research (0-6)
PPY.5CR Master's Degree Study (0)
PPY.600 Pharmacological Principles of Human Therapeutics (2)
PPY.601 Pharmacology and Physiology of the Cardiovascular System (4)
PPY.655 Signal Transduction Mechanisms (4)
PPY.666 Pharmacology and Physiology of the Nervous System and Selected Topics in Neuropharmacology (4)
PPY.680 Pharmacological and Physiological Science Seminar (0-1)
PPY.691 Pharmacological and Physiological Science Journal Club (0-1)
PPY.695 Special Study for Examinations (0)
PPY.697 Research Topics (1-3)
PPY.698 Graduate Reading Course (1-3)
PPY.699 Dissertation Research (0-6)
PPY.6CR Doctor of Philosophy Degree Study (0-1)

CENTER FOR ANATOMICAL SCIENCE AND EDUCATION

Daniel L. Tolbert, Ph.D.,
Graduate Program Director

Director, Center for Anatomical Science and Education

John Martin, Ph.D.,
Graduate Program Associate Director

Patty Anderson
Anatomy Graduate Program Coordinator

The Center for Anatomical Science and Education (CASE) offers programs leading to the Master of Science (thesis), Master of Science (non-thesis) and Doctor of Philosophy degrees. The Master's degree programs prepare students for teaching in the anatomical disciplines and provide experience with fundamental anatomical research and/or teaching methodologies. The Doctoral program emphasizes training in clinical human anatomy and independent research for individuals seeking careers in medical school or university teaching. Research in biological structure and function focuses on clinically relevant anatomical topics. Additionally, CASE also offers the Medical Anatomy and Physiology Preparatory Program (MAPP) to post-baccalaureate scholars considering careers in medicine, dentistry or biomedical science education. The MAPP program is a two semester (fall and spring) academic experience that provides graduate-level courses in anatomy and physiology.

Medical Anatomy and Physiology Program (MAPP)

Prerequisite
Background in biology and/or chemistry.

Required Courses (24 credits)
ANAT.500 Human Gross Anatomy;
ANAT.510 Human Histology and Ultrastructure;
ANAT.520 Human Embryology;
ANAT.530 Human Systems Neurobiology;
ANAT.540 Human Systems Physiology.

Master of Science in Anatomy

Non-Thesis Option

Prerequisite
Background in biology and/or chemistry.

Required Courses (30 credits)
ANAT.500 Human Gross Anatomy;
ANAT.510 Human Histology and Ultrastructure;
ANAT.520 Human Embryology;
ANAT.530 Human Systems Neurobiology;
ANAT.540 Human Systems Physiology;
ANAT.550 Advanced Dissections in Human Anatomy;
ANAT.588 Human Anatomy Independent Study;
ANAT.595 Special Studies for Exams;
ANAT.691 Journal Club

Thesis Option

Prerequisite
Background in biology and/or chemistry.

Required Courses (30 credits with 4-6 credits for Thesis Research)
ANAT.500 Human Gross Anatomy;
ANAT.510 Human Histology and Ultrastructure;
ANAT.520 Human Embryology;
ANAT.530 Human Systems Neurobiology;
ANAT.540 Human Systems Physiology;
ANAT.544 Basic Research Techniques in Anatomy;
ANAT.595 Special Studies for Exams;
ANAT.599 Thesis Research;
ANAT.691 Journal Club;
BBSG.510 Ethics for Research Scientists

Doctor of Philosophy in Anatomy

Prerequisite
Background in biology, chemistry, or psychology.

Required Courses (60 credits-48 credits and 12 credits of Dissertation Research)
ANAT.500 Human Gross Anatomy;
ANAT.510 Human Histology and Ultrastructure;
ANAT.520 Human Embryology;
ANAT.530 Human Systems Neurobiology;
ANAT.540 Human Systems Physiology;
ANAT.544 Basic Research Techniques in Anatomy;
BBSG.510 Ethics for Research Scientists;
BST.500 Principles of Biostatistics;
ANAT.689 Anatomy Seminar;
ANAT.691 Journal Club;
ANAT.695 Special Studies for Exams;
ANAT.699 Dissertation Research

Additional Requirements
All required Anatomy courses must be completed prior to preliminary degree examinations. Research proposal to be submitted prior to admission to the preliminary oral examinations. *A formal minor is not permitted.*

Post-baccalaureate courses

ANAT.500 Human Gross Anatomy (8)
ANAT.510 Human Histology and Ultrastructure (5)
ANAT.520 Human Embryology (2)
ANAT.530 Human Systems Neurobiology (5)
ANAT.540 Human Systems Physiology (4)
ANAT.544 Basic Research Techniques in Anatomy (2)
ANAT.550 Advanced Dissections in Human Anatomy (2-4)
ANAT.588 Human Anatomy Independent Study (2-4)
ANAT.595 Special Study for Examinations (0)
ANAT.597 Research Topics (1-3)
ANAT.598 Graduate Reading (1-3)
ANAT.599 Thesis Research (0-6)
ANAT.5CR Master's Degree Study (0)
ANAT.630 Advanced Systems Neurobiology (1)
ANAT.632 Developmental Neurobiology (2)
ANAT.667 Visual Neuroscience (2)
ANAT.689 Anatomy Seminar (0-1)
ANAT.691 Anatomy Journal Club (0-1)
ANAT.695 Special Study for Examinations (0)
ANAT.697 Research Topics (1-3)
ANAT.698 Graduate Reading Course (1-3)
ANAT.699 Dissertation Research (12)

MEDICAL FAMILY THERAPY

Craig W. Smith, Ph.D.,
Director

F. David Schneider, M.D.
Department Chairperson

The mission of the Medical Family Therapy Program is to train marriage and family therapists who are engaged in service to individuals, couples, families and the community. Through a scholarly and reflective process, we are involved in the development of professional clinicians who understand and recognize the importance of scientific inquiry, diversity and social justice. We respect and accept multiple perspectives, and strive to practice in a collaborative engagement with other professionals and the community.

The Medical Family Therapy Doctoral Program at Saint Louis University is accredited by the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE) of the American Association for Marriage and Family Therapy (AAMFT), 112 S. Alfred Street, Alexandria, VA 22314, 703.838.9808.

The Medical Family Therapy Program in the Department of Family and Community Medicine is unique in training students to work with individuals, couples, and families through the life cycle, and to collaborate in other social contexts in which people live, learn, and work. In addition to working within traditional mental health settings, the program prepares professionals to work collaboratively with medical professionals in enhancing the psychological, social, emotional and physical well-being of those they serve. Doctoral and Master's degree students are trained within primary and specialty care medical settings within an integrative care model. Also, they receive training at the Center for Counseling and Family Therapy. The Center provides mental health services to the university and St. Louis communities on a sliding-scale fee basis. The Medical Family Therapy Program offers both Master's and Doctoral degree programs.

Master of Arts in Family Therapy

The Master of Arts (M.A.) in Family Therapy is based on a systemic/relational view of individuals, couples and families. It fulfills the course and practicum requirements toward licensure in the State of Missouri as a Licensed Marital and Family Therapist. The program requires a minimum of 60 credits beyond the bachelor's degree. Program requirements include didactic courses, two semesters of practicum, three semesters of internship in a community setting and the attainment of a minimum of 500 hours of direct clinical contact, 250 of those being with couples and families.

The concentration in Medical Family Therapy prepares students to function as part of an integrated care team in addressing the biopsychosocial needs of individuals and families.

Prerequisites
Prerequisites include 18 credits in the behavioral sciences.

Post-baccalaureate courses

MFT.521 Introduction to Family Therapy (3);
MFT.532 Group Counseling Theory and Practice (3);
MFT.538 Theory and Intervention in Human Sexuality (3);
MFT.541 Practicum in Family Therapy (6)
MFT.545 Internship in Family Therapy (9)
MFT.570 Child and Adolescent Development and Intervention (3);
MFT.577 Foundations of Multicultural Counseling (3);
MFT.653 Ethical and Legal Issues in Family Therapy (3);
MFT.655 Diagnosis and Assessment in Family Therapy (3);
MFT.656 Foundations of Couple and Family Therapy (3);
MFT.665 Advanced Couple and Family Therapy (3);
MFT.666 Introduction to Family Studies (3);
MFT.670 Couple Interaction and Therapy (3);
MFT.671 Integrative and Evidence Based Models in Couple and Family Therapy (3);
MFT.674 Theories and Models in Medical Family Therapy (3);
MFT.676 Families, Health, and Illness (3);
MFT.677 Behavioral Medicine and Integrative Care (3).
A post-baccalaureate level statistics course (3); and
A post-baccalaureate level research methods course (3).

A formal minor is not permitted.

Doctor of Philosophy

The Ph.D. in Medical Family Therapy is based on a systemic/relational view of individuals, couples and families. It prepares clinicians to work within an integrated care health setting in collaboration with medical and mental health professionals. Coursework focuses on theory, practice, and research in the field of couple and family therapy with an emphasis on intervention in primary care medical settings and as adjunct health providers in specialty care. The doctoral program involves a minimum of 51 credits of coursework beyond the master's degree, plus comprehensive examinations and original research culminating in the dissertation (12+ credits). The Ph.D. has a clinical component in which students are trained in both mental health and medical settings as part of an integrated care team of health professionals. Students are required to complete a nine to twelve month internship. Prior to graduation students must have accrued a total of 1,000 hours of direct client contact (including hours obtained during their master's degree program). Five hundred of those hours must be relationally focused working with couples and families.

Prerequisites

A master's degree with at least 48 credits in marriage and family therapy (MFT) or a related mental health area with coursework equivalent to a master's degree in MFT.

Required Courses

MFT.650 The Neurobiology of Interpersonal Behavior (3);
MFT.665 Advanced Couple and Family Therapy (3);
MFT.669 Supervision in Family Therapy (3);
MFT.672 Integrative Care Practicum (9)
MFT.673 Research Practicum (3);
MFT 674 Theories and Models of Medical Family Therapy (3);
MFT.675 Supervision Practicum (3)
MFT.676 Families, Health, and Illness (3);
MFT.677 Behavioral Medicine and Integrative Care (3)
MFT.682 The Self in Theory and Therapy (3);
MFT.687 Clinical Supervision (3);
MFT 694 Doctoral Internship (9-12 months; 0-3)
MFT.697 Research Topics: Medical Family Therapy (3).
Additional Requirements
MFT.601 Doctoral Residency
Research Courses (6) (in addition to MFT.697 Research Topics and MFT 673 Research Practicum)
Clinical Elective or additional Research Course (3)

Post-baccalaureate courses

MFT.521 Intro to Family Therapy (3)
MFT.532 Group Counseling Theory and Practice (3)
MFT.538 Theory and Intervention in Human Sexuality (3)
MFT.541 Practicum in Family Therapy (3)
MFT.545 Internship in Family Therapy
MFT.570Child and Adolescent Development and Intervention (3)
MFT.577 Foundations of Multicultural Counseling (3)
MFT.595 Special Study for Examinations (0)
MFT.598 Graduate Reading Course (1-3)
MFT.599 Thesis Research (0-6)
MFT.650 The Neurobiology of Interpersonal Behavior (3)
MFT.653 Ethical & Legal Issues in Family Therapy (3)
MFT.655 Diagnosis and Assessment in Family Therapy (3)
MFT.656 Theoretical Foundations in Couple and Family Systems (3)
MFT.665 Advanced Couple and Family Therapy (3)
MFT.666 Introduction to Family Studies
MFT.669 Supervision in Family Therapy (3)
MFT.670 Couple Interaction & Therapy (3)
MFT.671 Integrative and Evidence Based Models in Couple and Family Therapy (3)
MFT.672 Integrative Care Practicum (3)
MFT.673 Research Practicum (1)
MFT.674 Theories and Models of Medical Family Therapy (3)
MFT.675 Practicum: Supervision. of Marriage and Family Therapists (3)
MFT.676 Families, Health, and Illness (3)
MFT.677 Behavioral Medicine and Integrative Care (3)
MFT.682 The Self in Theory and Therapy (3)
MFT.687 Clinical Supervision (1)
MFT.694 Doctoral Internship (0-3)
MFT.695 Special Study for Examinations (0)
MFT.697 Research Topics in Medical Family Therapy (3)
MFT.698 Graduate Reading Course (1-3)
MFT.699 Dissertation Research (0-6)

JOHN COOK SCHOOL OF BUSINESS

Scott R. Safranski, Ph.D.
Interim Dean

Mark J. Arnold, Ph.D.
Senior Associate Dean, Academic Programs

Susan J. Hartmann M.S., M.B.A.
Interim Director, Master's Programs

Hongxin Zhao, Ph.D.
Director, Ph.D. Program

The John Cook School of Business, accredited by AACSB International - The Association to Advance Collegiate Schools of Business, offers several Master's degree programs designed for individuals with baccalaureate degrees in business or non-business fields: the Master of Business Administration (M.B.A.), the Master of Accounting (M.Acc.), the Master of Science in Applied Financial Economics (M.S.-AFE), the Master of Supply Chain Management (M.S.-SCM), and the Executive Master of International Business (EMIB) degrees. These programs provide a sound academic foundation for the professional practice of business and for continued advancement in executive and management responsibilities. Emphasis is placed on managerial principles and practical, functional business skills as well as theories of business-analysis and global decision-making, and strategy formulation. In conjunction with the School of Law, the College of Education and Public Service, the Center for Sustainability, the College for Public Health and Social Justice, and the School of Medicine, the Cook School of Business also offers five dual degree programs: the Juris Doctor/Master of Business Administration (J.D./M.B.A.) the Master of Arts in Educational Leadership/Master of Business Administration (M.A./M.B.A.), the Master of Arts in Sustainability/Master of Business Administration (M.A./M.B.A.), the Master of Health Administration/Master of Business Administration (M.H.A./M.B.A.), and the Doctor of Medicine/Master of Business Administration (M.D./M.B.A.) degrees.

Master of Business Administration

The Master of Business Administration (M.B.A.) degree program is offered in two formats: the traditional evening program for part-time students and the one-year cohort program for full-time students. The program objective is to provide business students a broad perspective for managerial decision-making and strategy formulation. The one-year full-time program requires 50 credits over three semesters (Summer, Fall, and Spring), including a ten day study abroad. The part-time program-requirements range from 36-48 credits, depending on prior academic background. The part-time program consists of twelve credits of foundation coursework in economics, accounting, quantitative methods and operations management, part or all of which may be waived for students demonstrating competency through previously completed coursework, twenty-one credits of advanced managerial core requirements, and nine credits of advanced course-electives. The advanced managerial core includes coursework in Finance, Information Technology, Global Business, Business Analytics, Management and Marketing, plus the Legal/Ethical Environment of Business, courses in professional development, and a strategic practicum aimed at developing teamwork and integrated strategy. Electives may be taken in any business discipline or, with academic approval, several non-business disciplines.

Master of Accounting

The objective of the Master of Accounting (M.Acc.) degree program is to provide strong technical and professional accounting skills to students planning careers as professional accountants. The program consists of 30 credits of advanced coursework with up to 21 credits in accounting and the remaining credits in business electives determined in consultation with the Program Director. Pre-program requirements in economics, accounting, finance, mathematics, and statistics, may be required of students without sufficient functional background.

Master of Supply Chain Management

The Supply Chain Management (M.S.-SCM) profession addresses the critical link between demand creation and the fulfillment of demand. Supply chain management professionals participate in fundamental decisions associated with current and future business success, such as the "go/no-go" decision regarding which goods or services to provide, which suppliers to work with, and how to access and excite prospective customers.

Master of Science in Applied Financial Economics

The Master of Science in Applied Financial Economics (M.S.AFE) is a quantitatively-based, applied program in financial economics that will focus on analysis and forecasting of financial variables such as interest rates, stock returns and their effects on financial markets. It is a one-of-a- kind program in the region that responds to the market need for individuals to enter the labor market with a set of applied technical skills. The M.S.-AFE program consists of 30-39 credits that can be completed full-time in one calendar year. The program consists of nine credits of foundation coursework in economics, accounting, and quantitative methods, part or all of which may be waived for students demonstrating competency through previously completed coursework, No work experience is required, which means that students can transition into the program upon achieving their undergraduate degree. In addition, the program can be pursued on a part-time basis for up to five years, which makes it suitable for working professionals.

Executive Master of International Business degree program

The two-year Executive Master of International Business degree program (E.M.I.B.) combines a basic business curriculum with international business issues and culture. It is intended to provide experienced business professionals the skills and tools for the complex global environment. Students are expected to have significant management experience, move through the program as a cohort group, and spend two weeks studying abroad.

Doctor of Philosophy in Business Administration

In conjunction with Graduate Education, the John Cook School of Business provides a program leading to the Doctor of Philosophy (Ph.D.) in Business Administration degree with a combined major in International Business and Marketing. The doctoral program requires full-time study/attendance and emphasizes university level research and teaching skills. The program is designed to prepare graduates for academic careers, typically as business school faculty. Prerequisite: a Master's degree in business or a related field and basic coursework in calculus and statistics. New students with limited backgrounds in business may be required to take specific coursework to ensure sufficient preparation prior to progressing into required courses toward the doctorate. The program consists of 54 credits of required work and has a research and teaching focus that concentrates on a joint area of study in International Business and Marketing. The curricular objective is the intellectual development of students through the advancement of research skills as well as the acquisition and application of knowledge.

Post-Baccalaureate Business Certificates

Graduate Business Foundation Certtificate

The Graduate Business Foundation Certificate at the John Cook School of Business focuses on candidates who are right out of undergraduate school and/or have limited work experience, and individuals who do not seek or want to commit to a full M.B.A. program. The certificate requirements consist of 12 credits of foundation courses and 6 credits of breadth courses (chosen by students in association with their advisor) for a total of 18 credits. Upon completion, students will be awarded a certificate from Saint Louis University and the John Cook School of Business.

Post-M.B.A. Certificates

The Post-M.B.A. Certificate at the John Cook School of Business focuses on specific areas that Master of Business Administration graduates from AACSB institutions can further their education in: Entrepreneurship, Finance, or Supply Chain Management. The certificate requirements consist of 12 credits of advanced post-baccalaureate courses in their specific discipline. Upon completion, students will be awarded a certificate from Saint Louis University and the John Cook School of Business.

Click here for more comprehensive information about post-baccalaureate programs in the John Cook School of Business.

Graduate Business Programs
John Cook School of Business
Saint Louis University
3674 Lindell Boulevard
St. Louis, MO 63108 USA

Phone: 800. SLU.FOR.U or 314.977.6221, Fax: 314.977.1416 or e-mail: gradbiz@slu.edu

Course Listing Post-baccalaureate courses

ACCOUNTING

ACCT.501 Accounting for Managers (3)
ACCT.593 Special Topics (3)
ACCT.598 Graduate Reading Course (0-3)
Prerequisite: Permission of Department Chair
ACCT.600 Managerial Accounting Concepts (3)
Prerequisite: ACCT 501
ACCT.603 Contemporary Financial Reporting (3)
Prerequisite: ACCT 501 and ACCT 411
ACCT.611 Financial Reporting III (3)
Prerequisite: ACCT 411
ACCT.614 Seminar in Accounting and Social Responsibilities (3)
Prerequisite: ACCT 600
ACCT.616 International Accounting (3)
Prerequisite: ACCT 600
ACCT.619 Financial Statement Analysis (3)
Prerequisite: ACCT 411
ACCT.621 Issues in Strategic Cost Management (3)
Prerequisite: ACCT 600
ACCT.631 Tax Planning for Individual & Entrepreneurial Bus. (3)
Prerequisite: ACCT 501
ACCT.632 Federal Income Taxation: Flow-Through Entities (3)
Prerequisite: ACCT 430
ACCT.634 Federal Income Tax: Corporate (3)
Prerequisite: ACCT 430
ACCT.635 State and Local Taxation (3)
Prerequisite: ACCT 430
ACCT.636 Seminar in Tax Research (3)
Prerequisite: ACCT 430
ACCT.638 Wealth Preservation (3)
Prerequisite: ACCT 430 or ACCT 631
ACCT.639 International Taxation (3)
Prerequisite: ACCT 634
ACCT.640 International Taxation Audit (3)
Prerequisite: ACCT 440 / Co-requisites: ITM 410 or ITM 610
ACCT.645 Forensic and Investigative Accounting (3)
Prerequisite: ACCT 440
ACCT.650 E-Business: Strategic Applications and Controls (3)
ACCT.660 Research in Contemporary Accounting Issues (3)

BUSINESS FOUNDATIONS

BIZ Professional Effectiveness (1-3)

ECONOMICS

ECON.501 Economics for Managers (3)
ECON.574 Quantitative Methods in Business and Economics (3)
Prerequisite: ECON.501
ECON.593 Special Topics (3)
ECON.598 Graduate Reading Course (0-3)
Prerequisite: Permission of Department Chair
ECON.600 Microeconomic Theory (3)
Prerequisite: ECON.501
ECON.605 Econometrics I (3)
Prerequisite: ECON.501 and OPM.502
Can be taken concurrently with ECON.600
ECON.606 Econometrics II (3)
Prerequisite: ECON.605
ECON.608 Industrial Organization and Antitrust Policy (3)
Prerequisite: ECON.600
ECON.616 Economic Development (3)
Prerequisite: ECON.600
ECON.617 History of Economic Thought (3)
Prerequisite: ECON.501
ECON.620 Monetary Theory (3)
Prerequisite: ECON.600
ECON.630 International Trade (3)
Prerequisite: ECON.600
ECON.631 International Economics: Exchange Rates and International. Adjustment (3)
Prerequisite: ECON.600
ECON.635 Public Finance (3)
Prerequisite: ECON.501
ECON.650 Sports Economics (3)
Prerequisite: ECON.501 and OPM.502
ECON.655 Applied Optimization Methods for Financial Economics (3)
Prerequisites: ECON.606 and ECON.652
ECON.652 Advanced Macroeconomic Theory I (3)
Prerequisite: ECON.600
ECON.670 Health Economics (3)
Prerequisite: ECON.501
ECON.698 Graduate Reading Course (0-3)
Prerequisite: Permission of Department Chair

FINANCE

FIN.593 Special Topics (3)
FIN.598 Graduate Reading Course (0-3)
Prerequisite: Permission of Department Chair
FIN.600 Finance for Managers (3)
Prerequisite: ACCT.501 and ECON.501
FIN.609 Real Estate Finance (3)
Prerequisite: FIN.600 or FIN.615
FIN.610 Investment Concepts (3)

Prerequisite: FIN.600 or FIN.615
FIN.615 Finance Theory and Applications (3)
Prerequisite: ACCT.501 and ECON.501
FIN.616 Equity Securities and Markets (3)
Prerequisite: FIN.615
FIN.620 Securities Analysis (3)
Prerequisite: FIN.615
FIN.621 Fixed Income Securities and Markets (3)
Prerequisite: FIN.615
FIN.622 Financial Institutions Management (3)
Prerequisite: FIN.615
FIN.625 International Finance (3)
Prerequisite: FIN.615
FIN.634 Financial Planning and Analysis (3)
Prerequisite: FIN.615
FIN.635 Advanced Corporate Finance (3)
Prerequisite: FIN.615
FIN.636 Private Equity and Venture Capital (3)
Prerequisite: FIN.615
FIN.638 Derivative Securities and Markets (3)
Prerequisite: FIN.615

INTERNATIONAL BUSINESS

IB.581 Internship (0-3)
IB.596 Study Abroad (3)
IB.598 Graduate Reading (0-4)
IB.693 Special Topics (3)
IB.600 Global Business Environment (3)
IB.622 International E-Business (3)
IB.641 Global Business Negation (3)
IB.642 Global Environment Strategy (3)
IB.644 Global Business Negotiations (3)

EMIB Program Only

IB.501 Managerial Economics and Data Analysis (2)
IB.505 Financial and Managerial Accounting Methods (2)
IB.511 Financial Management Skills (2)
IB.514 International Business Environment (2)
IB.515 Management Skills (2)
IB.521 Marketing Skills (2)
IB.525 International Economics (2)
IB.531 International Business Strategies (2)
IB.533 Asian Business in Global Markets (3)
IB.535 International Marketing Strategies (2)
IB.541 International Financial Strategies (2)
IB.543 International Negotiations (2)
IB.545 International Accounting (2)
IB.551 Asia Pacific Business Strategy (2)
IB.555 European Business Strategy (2)
IB.561 Latin America Business Strategy (2)
IB.562 International Marketing Research and Analysis (2)
IB.565 Political and Cultural Environment of Europe (2)
IB.566 Political and Cultural Environment of Latin America (2)
IB.567 Political and Cultural Environment of Asia-Pacific (2)
IB.568 Managing Cultural Differences (2)
IB.569 International Organizations (2)
IB.591 International Study Abroad (2)
IB.593 Special Topics (2)

Ph.D. Program Only

IB.680 Theory in International Business (Doctoral Seminar) (3)
IB.682 Seminar in Global and Regional Business (Doctoral Seminar) (3)
IB.682 Seminar in Global Strategy (Doctoral Seminar) (3)
IB.695 Special Study for Examinations (0)
IB.697 Research Topics (1-3)
IB.698 Graduate Reading Course (0-3)
IB.699 Dissertation Research (0-6)

INFORMATION TECHNOLOGY MANAGEMENT

ITM.593 Special Topics (3)
ITM.598 Graduate Reading Course (0-3)
Prerequisite: Permission of Department Chair
ITM.600 Managing Information Technology (3)
ITM.605 Project Management (3)
ITM.610 Systems Analysis and Design (3)
Prerequisite: ITM.600
ITM.625 Electronic Commerce Systems (3)
Prerequisite: ITM.600
ITM.630 Database Management Systems (3)
Prerequisite: ITM.600
ITM.635 Telecommunications (3)
Prerequisite: ITM.600
ITM.640 Applied Business Analytics (3)
Prerequisite: Six credits of 600-level post-baccalaureate business courses
ITM.645 Business Strategy and Enterprise Systems (3)

MANAGEMENT

MGT.593 Special Topics (3)
MGT.598 Graduate Reading Course (0-3)
MGT.603 Legal, Ethical, Professional Environment of Business (3)
MGT.605 Strategic Management (3)
Prerequisite: MGT.600
MGT.606 Strategy and Practice (3)
Prerequisite: MGT.600
MGT.608 Failing Forward: Leadership / Art of Failure (3)
MGT.610 Management of Human Resources (3)
MGT.613 Value Based Organizational Design (3)
Prerequisite: MGT.600
MGT.614 Executive Decision-Making (3)
Prerequisite: MGT.600
MGT.615 Current Issues in Management (3)
Prerequisite: MGT.600
MGT.620 New Venture Initiation (3)
Prerequisite: MGT.600
MGT.621 Advanced Business Planning for New Ventures
Prerequisite: MGT.620 or MGT.623
MGT.622 Family Business (3)
Prerequisite: MGT.620 or MGT.623
MGT.623 Corporate Entrepreneurship (3)
Prerequisite: MGT.600.
MGT.624 Special Topics in Entrepreneurship
Prerequisite: MGT.600
MGT.628 Legal and Ethical Environment (3)
MGT.635 Management of Change (3)
Prerequisite: MGT.600
MGT.641 Employee Performance and Turnover Management (3)
Prerequisite: MGT.600
MGT.698 Graduate Reading Course (0-3)
Prerequisite: Permission of Department Chair

MARKETING

MKT.593 Special Topics (3)
MKT.598 Graduate Reading Course (0-3)
Prerequisite: Permission of Department Chair
MKT.600 Marketing Management (3)
MKT.605 Seminar in Current Marketing Issues (3)
Prerequisite: MKT.600
MKT.610 Sales Management (3)
Prerequisite: MKT.600
MKT.612 Marketing and Electronic Commerce (3)
Prerequisite: MKT.600
MKT.615 New Product Management (3)
Prerequisite: MKT.600 and OPM.502
MKT.620 Consumer Analysis and Buyer Behavior (3)
Prerequisite: MKT.600
MKT.625 International Marketing (3)
Prerequisite: MKT.600
MKT.626 Green Marketing (3)
Prerequisite: MKT.600
MKT.630 Advertising Management (3)
Prerequisite: MKT.600
MKT.695 Special Study for Examinations (0)
Prerequisite: Ph.D. Program
MKT.635 Business Marketing Management (3)
Prerequisite: MKT.600
MKT.640 Social Media and Digital Marketing (3)
MKT.646 Strategic Marketing (3)
Prerequisite: MKT.600 and/or permission of instructor
MKT.650 Sports Marketing (3)
Prerequisite: MKT.600
MKT.660 Marketing Analytics (3)
MKT.682 Seminar in Marketing Theory (Doctoral Seminar) (3)
Prerequisite: Ph.D. program
MKT.683 Seminar in International/Global Marketing (Doctoral Seminar) (3)
Prerequisite: Ph.D. program
MGT.593 Special Topics (3)
MKT.697 Research Topics (1-3)
Prerequisite: Ph.D. Program
MKT.698 Graduate Reading Course (1-3)
Prerequisite: Permission of Department Chair
MKT.699 Dissertation Research (0-6)
Prerequisite: Ph.D. Program

MASTER OF BUSINESS ADMINISTRATION

MBA.501 Accounting for Managers (3)
MBA.575 Professional Effectiveness Seminar (1)
MBA.593 Special Topics (3)
MBA.598 Graduate Reading Course (0-3)
Prerequisite: Permission of Department Chair

One-Year M.B.A. Students Only

MBA.600 Meaning-Centered Approach to Organizational Communication (3)
MBA.601 Emerging Business Issues I (1)
MBA.602 Emerging Business Issues II (1)
MBA.603 Emerging Business Issues III (1)
MBA.604 Ethics and Values-Based Decision Making (1)
MBA.607 Career Management (1)
MBA.615 Global Business Ethics (3)
MBA.620 Professional Effectiveness Series I (1)
MBA.621 Information Technology (1)
MBA.622 Operations Management (2)
MBA.623 Supply Chain Management (1)
MBA.624 Managerial Economics and Applied Statistics (2)
MBA.625 Essentials of Marketing Strategy (2)
MBA.626 Legal and Ethical Environment (2)
MBA.627 Leadership and Strategic Management (2)
MBA.628 Integrated Decision Making (2)
MBA.629 Accounting and Financial Management (4)
MBA.630 Applied Statistics (2)
MBA.631 Legal Aspects of Business (1)
MBA.632 Financial Accounting (1)
MBA.633 Managerial Economics (2)
MBA.634 Nexus I (1)
MBA.636 Financial Management (3)
MBA.637 Ethical Environment of Business (1)
MBA.638 Managerial Accounting (1)
MBA.640 Professional Effectiveness Series II (2)
MBA.641 Global Business Integration I (2)
MBA.642 Data and Decisions (3)
MBA.643 The Organization: Governance and Compliance (3)
MBA.644 Nexus II (1)
MBA.650 Professional Effectiveness Series III (1-2)
MBA.651 Study Abroad (3)
MBA.652 Global Business Integration II (1)
MBA.653 Integrated Consulting Module (3)
MBA.654 Nexus III (1)

OPERATIONS MANAGEMENT

OPM.502 Applied Business Statistics (3)
OPM.505 Operations Management (3)
Prerequisite: OPM.502
OPM.593 Special Topics (3)
OPM.598 Graduate Reading Course (0-3)
Prerequisite: Permission of Department Chair
OPM.600 Forecasting and Demand Mgmt (3)
Prerequisite: OPM.502
OPM.605 Business Process and Operations Management (3)
Prerequisite: OPM.502
OPM.643 Quality Improvement Through a Lean Six Sigma Approach (3)
Prerequisite: OPM.505
OPM.644 Global Supply Chain Management Concepts, Design, and Strategies (3)
Prerequisite: OPM.505
OPM.646 Global Logistics and Operations Management (3)
Prerequisite: OPM.505
OPM.648 Strategic Sourcing and Procurement in Supply Chain Management (3)
Prerequisite: OPM.644
OPM.650 Mathematical Statistics for Business (3)
Prerequisite: OPM.502

PARKS COLLEGE OF ENGINEERING, AVIATION, AND TECHNOLOGY

Theodosios Alexander, Sc.D.
Dean

Riyadh Hindi, Ph.D., P.Eng.
Director of Graduate Programs

Consistent with the mission of Saint Louis University, the mission of Parks College of Engineering, Aviation, and Technology (Parks College) is to prepare students to advance the frontiers of knowledge and technical expertise in engineering and aviation while instilling within them good ethical and professional character.

History
Oliver L. Parks founded Parks College, the first federally certified school of aviation in the United States, in 1927 in Cahokia, Illinois. After establishing a strong aviation program, the school's founder entrusted his legacy to Saint Louis University in 1947. Now, Parks College offers a variety of engineering and aviation programs.

Program Objectives
The Parks College post-baccalaureate engineering and aviation programs are organized around a unique curriculum that prepares students with a solid theoretical and practical foundation to become effective leaders in all facets of their chosen discipline. By involving students in fundamental and applied research, encouraging collaboration across departments, and partnering within and outside institutions and organizations, Parks College of Engineering and Aviation students gain a rich education in their chosen discipline. The college offers Master of Science and Doctoral of Philosophy degrees in the areas of Aerospace and Mechanical Engineering, Biomedical Engineering, Civil Engineering, Electrical and Computer Engineering, and Aviation Science. For more information, please visit Parks Graduate Programs webpage at parks.slu.edu/grad

The dedicated Parks College faculty and staff are prepared to mentor, guide, and support your education activities. Your program will be uniquely structured to provide a multi-disciplinary approach, curriculum design flexibility, and customized research opportunities to meet your specific career goals. Innovation and leadership will be emphasized throughout, producing highly-skilled professionals, well-prepared to pursue careers at multi-national firms, competitive government agencies, or prestigious academic institutions.

In parallel with these objectives and reflective of its mission, Saint Louis University also strives to engage its students in five interrelated dimensions: scholarship and knowledge; intellectual inquiry; community building; leadership and service; and spirituality and values. Graduates will be a part of the future workforce finding ethical solutions, meeting the needs of the society with emerging technologies, and educating leaders who are aware of their impact on the surrounding world from technical and ethical perspectives.

Criteria for Admission
Submission Deadlines: Complete applications must be submitted by January 31st for financial aid (fellowships or graduate research assistantships) for the Fall Semester.

Regular admission applications (without financial aid) must be submitted by June 30th for the Fall Semester or November 30th for the Spring Semester.

Criteria for Acceptance
A four-year undergraduate degree in engineering or a related field may be appropriate for admission to the engineering program. A four-year undergraduate degree in aviation or a related field may be appropriate for admission to the aviation program.

Admission Requirements:

1. Online application at www.slu.edu/graduate-admission-home/apply-now
2. Non-refundable application fee of $55
3. Official GRE quantitative score
4. Official transcripts of all previous degrees
5. Three letters of recommendation & three Personal Potential Index (PPI) scores
6. Curriculum Vitae (CV)
7. Professional goals statement
8. Evidence of English language proficiency (when native language is not English) -
9. Minimum scores: TOEFL PBT 550, TOEFL IBT 80, or IELTS 6.5

Master of Science

The Master's Degree (M.S.) requires minimum of 30 credits beyond a Bachelor's degree. For students pursuing the research option, 6 of the total credits to the degree must be in Thesis Research. For students pursuing the project option, 3 of the total credits to the degree must be devoted to carrying out a project, approved by students' Faculty Advisor. Up to 12 credits may be transfer credits. Students are expected to maintain a cumulative grade point average (GPA) of 3.0; lower GPA may result in probationary status and/or dismissal from the program due to unsatisfactory academic performance. Lastly, all students are required to enroll each semester until degree is received.

M.S. students prepare a program of study that must be approved by his/her Faculty Advisor, department chair, and the Parks College Graduate Programs Director. This program of study is developed within the context of background and career goals of students allowing them to customize their program to suit their professional goals.

Course only option
Prior to registration, an admitted student, in consultation with his/her Faculty Advisor, will prepare a program of study. The program of study should include tentative courses to fulfill the requirement of 30 credits for an M.S. Degree.

Project Option
Prior to registration, an admitted student, in consultation with his/her faculty advisor, will prepare a program of study with tentative courses, to be taken over the course of the coming semesters, to fulfill the minimum of 30 credits required for an M.S. Degree. Three of the total credits will be dedicated to a project. Students' project details could be decided at a later date, in consultation with their Faculty Advisor.

Research Thesis Option

First Semester in the M.S. Program

In the first semester, M.S. students will begin taking courses as indicated in the program of study. In parallel, students may also begin research in an identified research area, under the guidance of a Faculty Advisor.

The Faculty Advisor and students will form a **Guidance Committee** of at least three members. The Committee members should be persons who will likely provide expertise and guidance that will assist students in research. At least one member, besides the Faculty Advisor, must be in the home department of students. If the Faculty Advisor is in another department, then one Guidance Committee member in the home department will be designated as the Guidance Committee Chair.

Thesis Proposal
Students prepare a Thesis Proposal before the end of the first year activities. The title and outline for this proposal are approved by the Guidance Committee and reported on the *Thesis Proposal/Prospectus for Master of Science form*. After completing the thesis proposal, students meet with the Guidance Committee at least once every semester.

Thesis Defense
An oral Thesis Defense must be completed before graduation. The Defense typically includes a seminar that is open to the public. Following the open session, students and Guidance Committee discussion continues in a closed session. A written Thesis report is submitted ~4 weeks prior to the oral defense.

Based on the Defense, the Guidance Committee may:
(1) Approve the Thesis,
(2) Conditionally approve, with specific instructions on revisions to the Thesis document, or
(3) Not approve the Thesis.

The Guidance Committee conveys the decision to the Department Chair and the Director of Graduate Programs.

Independent Studies and Special Topics Courses:
For all independent studies and special topics courses an outline of the topic(s) covered and students' evaluation process must be submitted and approved by the Faculty Advisor prior to registration.

Doctor of Philosophy

The Doctor of Philosophy (Ph.D.) programs focus on a specific research topic. The students are expected to conduct original academic research that culminates in a dissertation and peer-reviewed publications. Additional coursework related to the chosen research area is also required.

Ph.D. students prepare a program of study that must be approved by his/her Faculty Advisor, Department Chair, and the Director of Graduate Programs. This program of study is developed and then reviewed within the context of students' background and career goals, allowing students to customize their program to suit their professional goals.

The Engineering Ph.D. degree requires a total of 60 credits beyond the Bachelor's degree with a minimum of 36 credits of coursework and a minimum of 12 credits of dissertation research. Of the 60 credits limited number of courses may be comprised of coursework at the 400 level; all other course credits must be at the 500 or 600 level. Those students who earn a Master of Science degree may include the associated Master of Science degree coursework credits, but not the thesis or project credits, in the 60 credits which are needed for the Ph.D. degree.

The Aviation Ph.D. degree requires a total of 63 credits beyond the Bachelor of Science degree, including a minimum of 12 credits of dissertation. The curriculum will include a minimum of 24 credits comprised of at least 12 credits of coursework in research methodologies and 12 credits in a secondary discipline intended to compliment knowledge of aviation. Students will work with their advisor and Ph.D. committee to determine the specific coursework to complete the program. Those students holding an appropriate Master of Science degree may include a maximum of 27 credits of the associated Master of Science degree course credits, but not the thesis or project credits, in the 63 credits required for the Ph.D. degree.

First Semester in Ph.D. Program
In the first semester, Ph.D. students will begin taking courses as indicated in the program of study. In parallel, students may also begin research in an identified research area under the guidance of a Faculty Advisor.

The Faculty Advisor and students will form a Guidance Committee of at least five members. The Committee members should be persons who will likely provide expertise and guidance that will assist students in their research. At least two members, besides the Faculty Advisor must be in students' home department. If the Faculty Advisor is in another department, then one Guidance Committee member in the home department will be designated as the Guidance Committee Chair.

Qualifying Exam
A qualifying exam will be administered according to the expectations of the academic discipline. For example, in engineering a qualifying exam may be administered relatively early in the doctoral studies. In aviation, the qualifying exam is structured to assess comprehensive knowledge of the discipline after all or nearly all of academic work has been completed and thus, it is administered closer to the completion of the degree.

The student's Guidance Committee will advise students on preparation for the Qualifying Exam. Ideally, the Guidance Committee will continue after the Qualifying Exam and through the dissertation research.

The Qualifying Exam is designed to determine if students are prepared to continue Ph.D. studies. Normally, it is a written exam, with the option for follow-up with an oral exam. The details of the exam are determined by the home department.

Qualifying examinations are arranged and administered by the home department. The result of the exam may be a pass, no-pass, or conditional-pass. The conditional-pass will normally require that students correct specific weaknesses, with appropriate modifications to the plan of study.

Qualifying exam procedures can be accessed at the Parks College Graduate Programs website. http://parks.slu.edu/academics/grad-programs/doctoral-degree-programs/

Dissertation Proposal Exam
Typically, after a year following the Qualifying Exam, students will present and defend a Dissertation Proposal. This Exam is based on their written proposal, and their oral defense of the proposal. Both components will be evaluated by the Guidance Committee.

Doctoral Candidate status will be given to students after successful passage of the oral defense of the dissertation proposal.

Dissertation Defense
At a time selected by students and the Guidance Committee, the doctoral candidates present the dissertation research in both written and oral format. The Defense typically includes a seminar that is open to the public. Following the open session, students and Guidance Committee continues the discussion in a closed session.

Based on the Defense, the Guidance Committee may: (1) approve the Dissertation, (2) conditionally approve, with specific instructions on revisions to the Dissertation document, or (3) not approve the Dissertation.

Independent Studies and Special Topics Course:
For all independent studies and special topics courses, an outline of the topic(s) covered and the evaluation process must be submitted and approved by the mentor/advisor of students prior to registration.

Annual Progress Review
Admitted students are expected to meet with their Faculty Advisors at least once each semester. Students must have their Faculty Advisor's permission to enroll in new academic work in anticipation of a new academic term.

For all M.S. and Ph.D. students, an annual progress review must be evaluated and completed in consultation with the Faculty Advisor and submitted to a respective Department Chair or the Graduate Programs office.

Annual review form may be found at Parks College Graduate Programs website or at the office of the Graduate Programs Director. **http://parks.slu.edu/academics/grad-programs/forms-and-petitions/**

Post-baccalaureate Course Listing

AEROSPACE ENGINEERING

Sridhar Condoor, Ph.D.,
Department Chair

AENG.500 Seminar (0)
AENG.513 Introduction to Computational Fluid Dynamics (3)
AENG 514 Hypersonics (3)
AENG.515 Parachute Systems & Design (3)
AENG.516 Unsteady Aerodynamics of Bluff Bodies (3)
AENG.518 Applied Aerodynamics (3)
AENG.522 Flight Simulation (3)
AENG.532 Aeroelasticity (3)
ESCI.533 Composite Materials for Structure and Design (3)
AENG.541 Space Dynamics and Control (3)
AENG.551 Space Mission Failures (3)
AENG.554 Orbital Mechanics (3)
AENG.553 Space Mission Analysis and Design (3)
AENG.555 Guidance, Navigation and Estimation for Dynamic Vehicles (3)
AENG.556 Modern Control Systems (3)
AENG.557 Advanced Control Systems (3)
AENG.558 Autonomous Systems Design (3)
AENG.559 Advanced Space Mission Design (3)
AENG.593 Special Topics (1-3)
AENG.598 Independent Study (1-3)
AENG.599 Master's Thesis Research (0-6)
AENG.698 Independent Study (1-3)
AENG.699 Doctoral Dissertation Research (0-6)

AVIATION SCIENCE

Stephen Belt, Ph.D.,
Department Chair

Aviation Science Core
ASCI.521 Aviation Org. Theory and Management (3)
ASCI.522 Aviation Safety Programs (3)
ASCI.523 Professional Ethics and Standards (3)
ASCI.546 Qualitative Analysis (3)
ASCI.547 Quantitative Analysis (3)
ASCI 599: Master's Thesis Research (0-6)
ASCI 699: Doctoral Dissertation Research (0-6) 100

Collegiate Flight Education Track
EDL.564 The Student in Higher Education (3) ASC.605 Legal and Ethical Issues in Collegiate Flight Education (3)
ASC.606 Aviation Curriculum Development and Management (3)
ASCI.607 Aviation Training Methods and Practice (3)

Flight Operations Administration Track
FSCI.523 Economics of Air Transportation (3)
ASCI.601 Federal and International Regulatory Environment (3)
ASCI.602 Flight Operations Business and Administration (3)
ASCI.603 Aviation and Public Policy (3)

BIOMEDICAL ENGINEERING

Michelle Sabick, Ph.D.,
Department Chair

BME.500 Seminars (0)
BME.501 Current Topics I (1)
BME.502 Current Topics II (1)
BME.503 Current Topics III (2)
BME.504 Current Topics IV (2)
BME.510 Biomedical Signals (3)
BME.515 Sensory Neuroscience (3)
BME.520 Biomechanics (3)
BME.540 Tissue-Material Interfaces (3)
BME.541 Tissue Engineering (3)
BME.545 AFM Techniques and Training (3)
BME.550 Experimental Techniques and Design (0-2)
BME.560 Quantitative Physiology (3)
BME.580 Research Rotation (1-3)
BME.593 Special Topics (1-3)
BME.596 Masters Project (1-3)
BME.597 Research Topics (1-3)
BME.598 Independent Study (1-3)
BME.599 Master's Thesis Research (0-6)
BME.697 Research Topics (1-3)
BME.698 Independent Study (1-3)
BME.699 Doctoral Dissertation Research (0-6)

CIVIL ENGINEERING

Ronaldo Luna, Ph.D.,
Department Chair

Structures Track
CVNG.405/505 Advanced Structural Analysis (3)
CVNG.407/507 Structural Dynamics (3)
CVNG.409/509 Advanced Reinforced Concrete (3)
CVNG.411/511 Advanced Steel Design (3)
CVNG 413/513 Bridge Engineering (3)
CVNG.515 Prestressed Concrete (3)
CVNG.517 Seismic Design (3)

Environmental and Sustainable Engineering Track
CVNG.419/519 Sustainable Land Development Engineering (3)
CVNG.421/521 Sustainable Water Management (3)
CVNG.423/523 Biological Treatment Systems (3)
CVNG.425/525 Physical/Chemical Treatment Systems (3)
CVNG.427/527 Design of Wastewater Treatment Facilities (3)
CVNG.429/529 Design of Drinking Water Treatment Facilities (3)
CVNG.431/531 Air Pollution (3)

Transportation Analysis and Planning Track
CVNG.445/545 Traffic Engineering (3)
CVNG.447/547 Urban Transportation Planning (3)
CVNG.449/549 Data Management and Analysis (3)

Geotechnical Engineering Track
CVNG.437/537 Slopes and Retaining Structures (3)
CVNG.439/539 Advanced Geotechnical Engineering (3)
CVNG.541 Soil Dynamics (3)
CVNG.543 Foundation Engineering II (3)

General Courses
CVNG 500 Seminar (0)
CVNG.593 Special Topics (1-3)
CVNG.596 Master's Project (1-3)
CVNG.599 Master's Thesis Research (0-6)
CVNG.699 Doctoral Dissertation Research (0-6)
CVNG.433/533 Solid and Hazardous Waste Regulation and Treatment (3)
CVNG.535 Groundwater Analysis and Site Remediation 101 (3)

ELECTRICAL AND COMPUTER ENGINEERING

Huliyar Mallikarjuna, Ph.D.,
Department Chair

ECE.510 Power Systems I
ECE.511 Power Systems II
ECE.520 Modern Control Theory
ECE.525 Hardware Software Co-design
ECE.526 Robotics
ECE.530 Advanced Semiconductor Devices
ECE.531 Low Noise Electronics Design
ECE.532 Analog Integrated Circuit Design
ECE.535 Digital IC Design
ECE.541 Radar System Design and Analysis
ECE.542 Microwave Theory and Techniques
ECE.543 Antenna Theory and Design
ECE.550 Advanced Filter Design
ECE.551 Image Processing
ECE.555 Stochastic Processing
ECE.560 Communication Systems
ECE.561 Spacecraft Communications
ECE.562 Cellular Communications
ECE.570 Energy Technologies I
ECE.593 Special Topics (1-3)
ECE.596 Master's Project (3)
ECE.597 Research Topics (1-3)
ECE.598 Independent Study (1-3)
ECE.599 Master's Thesis Research (0-6)
ECE 697 Research Topics (1-3)
ECE.698 Independent Study (1-3)
ECE.699 Doctoral Dissertation Research (0-6)

MECHANICAL ENGINEERING

Sridhar Condoor, Ph.D.,
Department Chair

MENG.500 Seminar (0)
MENG.501 Advanced Fluid Dynamics (3)
MENG.502 Technology Entrepreneurship (3)
MENG.503 Numerical Methods Using Matlab and Labview (3)
MENG.512 Experimental Methods in Fluid Dynamics (3)
MENG.517 Viscous Flows (3)
MENG.519 An Introduction to Turbulence (3)
ESCI .533 Composite Materials for Structure and Design (3)
MENG.534 Finite Element Analysis I (3)
MENG.535 Finite Element Analysis II (3)
MENG.536 Multidisciplinary Optimization (3)
MENG.537 Structural Reliability (3)
MENG.538 Advanced Mechanics of Solids (3)
MENG.539 Fracture Mechanics and Plasticity (3)
MENG.593 Special Topics (1-3)
MENG.598 Independent Study (1-3)
MENG.599 Master's Thesis Research (0-6)

SCHOOL OF NURSING

Teri A. Murray, Ph.D.
Dean

Joanne L. Thanavaro, D.N.P.
Graduate Education, Associate Dean

Joanne K. Schneider, Ph.D.
Ph.D. Nursing Program, Director (Interim)

Kristine M. L'Ecuyer, Ph.D.
Accelerated Generalist Masters of Science in Nursing Option, Coordinator

The baccalaureate, Master's, and DNP degree programs at Saint Louis University School of Nursing are accredited by the Commission on Collegiate Nursing Education (http://www.aacn.nche.edu/ccne-accreditation) and approved by the Missouri State Board of Nursing. To achieve its educational objectives, the School uses the hospitals within the Health Sciences Center and many health care organizations of greater St. Louis. In addition to its undergraduate offerings, programs leading to the Master of Science in Nursing (Generalist), Master of Science in Nursing (Advanced Nursing Practice), Doctor of Nursing Practice (D.N.P.), Doctor of Philosophy (Ph.D.) in Nursing degrees, and a Post-Master's certificate are available through Graduate Education.

The Master of Science in Nursing (Generalist) degree is an accelerated 21 month on-site prelicensure program designed to educate advanced generalist nurses for clinical practice and leadership in health care settings. The prelicensure program prepares individuals who have non-nursing baccalaureate degrees to take the National Council Licensing Exam (NCLEX) for practice as a registered professional nurse; however, per section 335.066 RSMo of the Missouri Nurse Practice Act, completion of the nursing program does not guarantee eligibility to take the licensure exam. In addition, on completion of the program, graduates will be eligible to sit for the clinical nurse leader exam offered by American Association of Colleges of Nursing Commission on Nurse Certification.

The Master of Science in Nursing (Advanced Nursing Practice) degree program enables nurses to attain specialized knowledge and skills needed to implement leadership roles in advanced nursing practice. A range of specializations may be pursued at the M.S.N. or certificate level. All specializations are available online. The Post-Master of Science in Nursing certificate program provides opportunities for individuals who have earned a Master's degree in Nursing to prepare for advanced practice in a second nursing specialty or role. The Post-Master Nurse Educator Certificate Program prepares nurses with skills to teach in associate, diploma, or baccalaureate nursing programs.

The Doctor of Nursing Practice (D.N.P.) prepares nurses as advanced practice nurses with the specialized knowledge and skills needed to diagnose and manage health and illness and improve the quality of health care in all practice settings using evidence and outcome-based methodologies. D.N.P. graduates promote the value of the human person, clinical expertise, and patient-centered care with an emphasis on interdisciplinary collaboration within the health care delivery system.

The Ph.D. degree program prepares nurses as scholars and beginning nurse scientists who will contribute to the continued knowledge development of the discipline and profession of nursing. The program is offered in both a traditional classroom format and distance learning with Web-based teleconferencing. Students may attend classes on campus at the School of Nursing or by teleconference using Web technology Full-time and part-time study is available.

Master of Science in Nursing (Generalist)

Prerequisites
A baccalaureate degree from an accredited university
Completion of coursework in microbiology, human anatomy and physiology, and inferential statistics

Required Courses
NURS.460 Pharmacology in Nursing Practice (3)
NURS.501 Nursing Strategies for Health (6)
NURS.502 Advanced Health Assessment for the Generalist Nurse (3)
NURS.508 Advanced Pharmacology (3)
NURS.510 Nursing Strategies in Physiological Health Alterations (6)
NURS.515 Nursing Strategies in Psychosocial Health Alterations (4)
NURS.517 Advanced Pathophysiology (3)

NURS.521 Evidence-Based Practice for the Advanced Generalist Nurse (3)
NURS.530 Health Care Systems and Policy (3)
NURS.537 Clinical Studies I (4)
NURS.538 Clinical Studies II (4)
NURS.539 Clinical Studies III (4)
HCE.550 Ethics in Nursing and Healthcare
NURS.549 Advanced Clinical Studies (4)
NURS.550 Informatics and Quality Improvement (3)
NURS.560 Clinical Nursing Leadership for Advanced Generalists (3)
NURS.561 Practicum in Clinical Leadership (6)

Master of Science in Nursing (Advanced Nursing Practice)

Specialties are available in Adult-Gerontological, Family, and Psychiatric-Mental Health Nursing, and Nursing of Children. Role preparation as a nurse practitioner is offered in Adult-Gerontological combination, Family, Family Psychiatric-Mental Health Nursing, and Nursing of Children. Nurse-practitioner tracks in the Adult-Gerontological Nursing specialty include both acute-care and primary nurse-practitioner tracks. Educator tracks are available in all specialties.

Prerequisites
A baccalaureate degree in nursing from a program accredited by a nationally recognized accrediting agency is preferred. Nurses with non-B.S.N. baccalaureate degrees may be considered for admission.

Completion of a three-credit introductory statistics course.

Unencumbered registered nurse licensure in the State of Missouri or in other state in which students will complete a practica.

Completion of a beginning-level-health assessment course or the equivalent thereof is required.

One year of clinical nursing experience prior to enrollment in a clinical nursing course is strongly recommended. One year of nursing practice experience within the last three years is strongly recommended for all Nurse Practitioner tracks.

Master of Science in Nursing (Advanced Nursing Practice)

All students complete 20 credits of CORE courses that include:
HCE.550 Ethics in Nursing and Health Care (2)
NURS.508 Advanced Pharmacology (3)
NURS.511 Advanced Health Assessment & Clinical Decision Making (3)
NURS.514 Health Promotion (3)
NURS.516 Principles of Practice Management (3)
NURS.517 Advanced Pathophysiology (3)
NURS.520 General Research Methods (3), *and*
NURS.590 Residency (0)

Adult-Gerontological Acute Care Nurse Practitioner Concentration

Required Courses (18 credits)
Cognate: NURS.531 Critical Appraisal of Technology: Acute Care (3)
Elective (2)
NURS.526, Advanced Clinical Studies in the Acute Care Setting I (4)
NURS.527, Advanced Clinical Studies in the Acute Care Setting II (5)
NURS.581, Nursing Practicum (4)
NURS.595, Special Study for Exams (0)

Adult-gerontological Primary Care Nurse Practitioner Concentration

Required Courses (17 credits)
Cognate: NURS.575, Care of the Elderly: An Interdisciplinary Approach to Health (3)
NURS.524, Advanced Clinical Studies I: Adolescents and Adults (4)
NURS.525, Advanced Clinical Studies II: Adults & Older Adults (5)
NURS.581, Nursing Practicum (5)
NURS.595, Special Study for Exams (0)

Family Nurse Practitioner Concentration

Required Courses (21 credits)
Cognate: NURS.563 Dynamics of Family Nursing Practice (3)
NURS.528 Advanced Clinical Studies I: Adults, and Older Adults (5)
NURS.529 Advanced Clinical Studies II: Women and Children (5)
NURS.551 Mental Health Care of the Family in Primary Care (2)
Elective (2)
NURS.581 Nursing Practicum (4)
NURS.595 Special Study for Exams (0)

Pediatric Nurse Practitioner Concentration

Required Courses (18 credits)
Cognate: NURS.555 Family and Child Development (3)
NURS.532 Advanced Clinical Studies I in Nursing of Children (4)
NURS.533 Advanced Clinical Studies II in Nursing of Children (4)
Elective (2)
NURS.581 Nursing Practicum (5)
NURS.595 Special Study for Exams (0

Family Psychiatric/Mental Health Nurse Practitioner Concentration

Required Courses (21 credits)
Cognate: NURS.540 Ecological Approach to Human Behavior (3)
Cognate: NURS.555 Family and Child Development (3)
NURS.534 Advanced Clinical Studies I: P/MH Nursing (4)
NURS.535 Advanced Clinical Studies II: P/MH Nursing (5)
NURS.543 Psychopharmacology (2)
NURS.581 Nursing Practicum (4)
NURS.595 Special Study for Exams (0)

Educator Option

The Nurse Educator courses provide an opportunity for course work and practicum experience in nursing education.

NURS.557 Curriculum Development in Nursing Education (2-3)
NURS.558 Instructional Strategies and Evaluation for Nurse Educators (2)
NURS.559 Practicum in Nursing Education (2)
An additional 3-credit Education course may be added so that students may apply for the NLN Nurse Educator certificate.

Post-Master's Certificate, Advanced Nursing Practice

Preparation in a second specialty or for a second role is offered to individuals who have earned Master's degrees in Nursing. Specialties in which preparation is available are the same as those in which Master's degrees are offered. Preparation is currently available for a second role as an adult-gerontological acute care, adult-gerontological primary care, family, pediatric primary care, or family psychiatric/mental health nurse practitioner. A certificate may be earned by completing a focused program of study that includes a minimum of 15 semester hours.

Prerequisites
Master of Science degree in nursing from a program accredited by a nationally recognized accrediting agency is preferred
Registered professional nurse licensure in the State of Missouri or in other states in which students will complete a practica
Additional prerequisites are specific for the role option chosen by students
Please contact the Director of the Advanced Nursing Practice Programs for additional prerequisites.

Required Courses
Course work is dependent upon the requirements for the specific specialty or specific role.

Master of Science in Nursing (Advanced Nursing Practice) Degree and Post-Master's Certificate Online Programs

Complete advanced nursing practice master's degree programs and post-master's certificate programs are available online through the World Wide Web for the adult-gerontological primary and acute care, family, pediatric, and family psychiatric/mental health nurse practitioner options.

Nurse Educator Certificate

The Nurse Educator Certificate (NEC) will prepare graduates with the skills to teach in baccalaureate, associate or diploma nursing programs. All four educator courses are offered on-line with attention to building a learning community with a culture of sharing and support. Attention to development of the educator role is threaded through each course and culminates in the development of an educator portfolio including a personal philosophy of teaching, a research plan and examples of teaching products. Students in the NEC must meet the current residency requirements within the SON.

Prerequisites
Master of Science degree in nursing from a program accredited by a nationally recognized accrediting agency is preferred.

Registered professional nurse licensure in the State of Missouri or in other states in which students will complete their practica.

Required Courses
A certificate may be earned by completing a focused program of study that includes a minimum of 9 credits.

NURS.556 Evidence-Based Nursing Education (2)
NURS.557 Curriculum Development in Nursing Education (3)
NURS.558 Instructional Strategies and Evaluation for Nurse Educators (2)
NURS.559 Practicum in Nursing Education (2)

Doctor of Nursing Practice

Complete advanced nursing practice doctoral degree programs are available online through the World Wide Web for the adult-gerontological primary and acute care, family, pediatric, and psychiatric/mental health nurse practitioner options

Post-B.S.N. to D.N.P. Option

Prerequisites
A baccalaureate degree in nursing from a program accredited by a nationally recognized accrediting agency is preferred. Nurses with non-B.S.N. baccalaureate degrees may be considered for admission

Cumulative grade point average (GPA) of 3.5 on a 4.0 system for admission as a Classified student.

Completion of a three-credit introductory statistics course.

Unencumbered registered nurse licensure in the State of Missouri or in other state in which students will complete their practica. (International applicants are advised to begin this process one year prior to the intended enrollment date.)

Completion of a beginning-level-health assessment course or the equivalent thereof is required.

One year of clinical nursing experience prior to enrollment is required. One year of nursing practice experience within the last three years is strongly recommended.

Required Courses (66-68 credits)

D.N.P. Core Course (51 credits)
All students complete 26 credits of 500 level core courses that include:

NURS.500 Epidemiology (3)
HCE.550 Ethics in Nursing and Health Care (2)
NURS.508 Advanced Pharmacology (3)
NURS.511 Advanced Health Assessment & Clinical Decision Making (3)
NURS.514 Health Promotion (3)
NURS.516 Principles of Practice Management (3)
NURS.517 Advanced Pathophysiology (3)
NURS.520 General Research Methods (3)
NURS.xxx Biostatistics (3)

All students complete 25 credits of 700 level core courses that include:

NURS.710 Health Care Policy and Advanced Practice Nursing (3)
NURS.711 Health Care Delivery Systems (3)
NURS.713 Interprofessional Collaboration (3)
NURS.714 Leadership in Health Care (3)
NURS.715 Clinical Informatics (2)
NURS.716 Evidence Based Practice I (3)
NURS.717 Evidence Based Practice II (3)
NURS.718 Project Management (2)
NURS.789 D.N.P. Clinical and Capstone Project (3)

Adult-Gerontological Acute Care Nurse Practitioner Concentration

Required Courses (16 credits)

Cognate: NURS 531 Critical Appraisal of Technology: Acute Care (3)
NURS.526 Advanced Clinical Studies in the Acute Care Setting I (4)
NURS.527 Advanced Clinical Studies in the Acute Care Setting II (5)
NURS.581 Nursing Practicum (4)
NURS.795 Special Study for Exams (0)

Adult-Gerontological Primary Care Nurse Practitioner Concentration

Required Courses (17 credits)

Cognate: NURS.575 Care of the Elderly: An Interdisciplinary Approach to Health (3)
NURS.524 Advanced Clinical Studies I: Adolescents and Adults (4)
NURS.525 Advanced Clinical Studies II: Adults and Older Adults (5)
NURS.581 Nursing Practicum (5)
NURS.595 Special Study for Exams (0)
NURS.795 Special Study for Exams (0)

Family Nurse Practitioner Concentration

Required Courses (19 credits)

Cognate: NURS.563 Dynamics of Family Nursing Practice (3)
NURS.528 Advanced Clinical Studies I: Adults, and Older Adults (5)
NURS.529 Advanced Clinical Studies II: Women and Children (5)
NURS.551 Mental Health Care of the Family in Primary Care (2)
NURS.581 Nursing Practicum (4)
NURS.795 Special Study for Exams (0)

Pediatric Nurse Practitioner Concentration

Required Courses (18 credits)

Cognate: NURS.555 Family and Child Development (3)
NURS.532 Advanced Clinical Studies I in Nursing of Children (4)
NURS.533 Advanced Clinical Studies II in Nursing of Children (4)
Elective (2)
NURS.581 Nursing Practicum (5)
NURS.795 Special Study for Exams (0)

Family Psychiatric/Mental Health Nurse Practitioner Concentration

Required Courses (21 credits)

Cognate: NURS.540 Ecological Approach to Human Behavior (3)
Cognate: NURS.555 Family and Child Development (3)
NURS.534 Advanced Clinical Studies I: P/MH Nursing (4)
NURS.535 Advanced Clinical Studies II: P/MH Nursing (5)
NURS.543 Psychopharmacology (2)
NURS.581 Nursing Practicum (4)
NURS.795 Special Study for Exams (0)

Total D.N.P. Degree 70 credits

Post M.S.N. to D.N.P. Option

Prerequisites

A master's degree in Nursing from a nationally accredited program Current unencumbered registered professional nurse licensure in state in which clinical experience will be done evidence of high potential for scholarship and leadership in nursing Certification as a nurse practitioner (NP) in at least one of the nursing specialties that the School of Nursing offers as an MSN degree (i.e. adult-gerontological acute care NP, adult-gerontolgical primary care NP, family NP, pediatric primary care NP, or family psychiatric/mental health NP. - OR - Certification as a Clinical Nurse Specialist (CNS) with national and/or state recognition will be individually evaluated according to specialty and functional role Recognition as an advanced practice registered nurse (APRN) in the state in which clinical experience will be done. Inferential or Biostatistics or equivalent within the past 5 years.

Required Courses

NURS.500 Principles of Epidemiology (3)
NURS.710 Health Care Policy and Advanced Practice Nursing (3)
NURS.711 Health Care Delivery Systems (3)
NURS.713 Interprofessional Collaboration (3)
NURS.714 Leadership in Health Care (3)
NURS.715 Clinical Informatics (2)
NURS.716 Evidence Based Practice I (3)

NURS.717 Evidence Based Practice II: Methods and Techniques (3)
NURS.718 Capstone Project Management (2)
NURS.789 D.N.P. Clinical and Capstone Project

Doctor of Philosophy in Nursing

Post M.S.N. to Ph.D. Option

Prerequisites
A master's degree in nursing from a nationally accredited program
Cumulative grade point average of 3.25 on a 4.0 system
Satisfactory performance on the Graduate Record Examination (General Test)
Current, unencumbered registered professional nurse licensure in the state/country of residence/employment (or eligibility for licensure in the State of Missouri)
Evidence of high potential for scholarship and leadership in nursing research and interests that are congruent with the research expertise of the faculty
NURS.625 Applied Univariate Statistics for Nursing Research (or its equivalent)
International students are welcome to apply. Documented English proficiency is required.

Required Courses
NURS.600 Theory Development in Nursing (3)
NURS.601 Research Issues in Health Promotion, Disease Prevention, and Reduction of Health Disparities (3)
NURS.602 Measurement of Nursing Variables (3)
NURS.603 Nursing Issues and Leadership Strategies (2)
NURS.604 Research Issues in the Care of Acutely and Chronically Ill Populations (3)
NURS.609 Quantitative Methods in Nursing Research (3)
NURS.610 Qualitative Methods in Nursing Research (3)
NURS.612 Issues of Scientific Integrity in Nursing and Health Research (1)
NURS.613 Nursing Knowledge Development: Philosophical Perspectives (3)
NURS.650 Applied Multivariable and Multivariate Statistics in Nursing Research (3)
A research-methods elective, (3) *and*

An area of concentration enhancing the dissertation research or the nurse faculty role option (9)
Students may pursue a formal minor in lieu of an area of concentration (15)

Post B.S.N. to Ph.D. Option

Prerequisites
A bachelor’s degree in nursing from a nationally accredited program
Cumulative grade point average of 3.25 on a 4.0 system
Satisfactory performance on the Graduate Record Examination (General Test)
Current, unencumbered registered professional nurse licensure in the state/country of residence/employment (or eligibility for licensure in the State of Missouri)
Evidence of high potential for scholarship and leadership in nursing research, and interests that are congruent with the research faculty
NURS625 Applied Univariate Statistics for Nursing Research (or its equivalent)

Required Courses
Nursing courses with a total of 18-20 credits at the 500+ level (allow one 497 or other upper division undergraduate level course).

HCE.503 Ethics in Nursing and Health Care (2)
NURS.514 Health Promotion (3)
NURS.517 Advanced Pathophysiology (3)
NURS.520 General Research Methods (3)
NURS.625 Applied Univariate Statistics in Nursing Research (3)
Declared specialty in advanced nursing: Specialty cognates: 4-6 credits
NURS.600 Theory Development in Nursing (3)
NURS.601 Research Issues in Health Promotion, Disease Prevention, and Reduction of Health Disparities (3)
NURS.602 Measurement of Nursing Variables (3)
NURS.603 Nursing Issues and Leadership Strategies (2)
NURS.604 Research Issues in the Care of Acutely and Chronically Ill Populations (3)
NURS.609 Quantitative Methods in Nursing Research (3)
NURS.610 Qualitative Methods in Nursing Research (3)
NURS.612 Issues of Scientific Integrity in Nursing and Health Research (1)
NURS.613 Nursing Knowledge Development: Philosophical Perspectives (3)
NURS.650 Applied Multivariable and Multivariate Statistics in Nursing Research (3)
A research-methods elective, (3) *and*

An area of concentration enhancing the dissertation research or the nurse faculty role option (9)
Students may pursue a formal minor in lieu of an area of concentration (15).

DOISY COLLEGE OF HEALTH SCIENCES

Mardell Wilson, E.D.D. RD, LDN.
Dean

The Doisy College of Health Sciences incorporates Saint Louis University's long-standing tradition of excellence in health care education with modern innovations in inter-professional education, research and service. The College includes the Departments of Clinical Laboratory Science (1929), Health Informatics and Information Management (1936), Medical Imaging and Radiation Therapeutics (1981), Nutrition and Dietetics (1934), Occupational Science and Occupational Therapy (1992), Physician Assistant Education (1971), Physical Therapy and Athletic Training (PT-1933, AT-2008) and the Program in Health Science (2010). The College offers undergraduate, graduate, and certificate programs in these departments. Many of the departments are nationally ranked and all of them have a reputation for excellence in professional education.

BIOMEDICAL LABORATORY SCIENCE

Tim R. Randolph, Ph.D., MT (ASCP)
Chair

Program Faculty
Donna Duberg, M.A., M.S., MT(ASCP)SM
Uthayashanker Ezekiel, Ph.D., MB(ASCP)^{CM}
Elizabeth Gockel-Blessing, Ph.D., MLS(ASCP)^{CM},
Mona Hebert, B.S., MLS(ASCP)^{CM}
Rita M. Heuertz, Ph.D., MT(ASCP)
Larry List, M.S., PA(ASCP)CT^{CM}, *CCT Program Director*
Tim R. Randolph, Ph.D., MT(ASCP)
Amanda Reed, EdM, MLS(ASCP)^{CM} *CMLS Program Director*

The Department of Biomedical Laboratory Science offers three separate degree programs: medical laboratory science (CLS), cytotechnology (CT), and investigative and medical sciences (IMS). Pre-medicine, pre-physician assistant and other pre-professional curricular tracks are options in all three programs. The department also offers four certificate programs in the areas of medical chemistry, medical hematology, medical microbiology and cytotechnology. Consult the respective program's website for more information.

Medical Laboratory Science program website: http://www.slu.edu/x24731.xml

Cytotechnology program website: https://www.slu.edu/x16887.xml

Investigative and Medical Sciences program website: http://www.slu.edu/x24730.xml

Certificate programs from the Department of Biomedical Laboratory Science website: http://www.slu.edu/biomedical-laboratory-science/future-students/post-baccalaureate-certificates

Certificate in Medical Laboratory Science (CMLS)

Program Description
The Biomedical Laboratory Science (BLS) department offers *undergraduate* certificate (categorical) programs in three laboratory-specific disciplines: medical chemistry, medical hematology, and medical microbiology. Each of the certificate curricula provides students with a strong science background, medically applied courses, and corresponding practicum experiences in the clinical laboratory. Each program consists of two full semesters of didactic coursework and a subsequent clinical practicum that varies in length between 5-7 weeks. Clinical experiences are scheduled at the convenience of BLS Department affiliate sites. Thus, the typical program takes between 12-18 months to complete.

CMLS graduates are prepared to manage and conduct a wide spectrum of laboratory testing relative to the laboratory discipline studied. Results of these tests are used to evaluate the health status of individuals, diagnose disease, and monitor treatment efficacy. Progression through the program is based on meeting academic, psychomotor, and professional behavior requirements. Upon successful completion of the program, students are eligible for national certification as a categorical medical laboratory professional. In addition to working in diagnostic, research and other laboratories, many graduates continue their education in medical school, graduate school, and other professional programs.

General Prerequisites
Concurrent enrollment at Saint Louis University or completion of a conferred degree from a regionally accredited college/university with a major in biological science or chemistry is required. Students must complete a combination of 30 credits (45 quarter hours) of biology, chemistry and/or medical sciences for program admission consideration.

Science-based required coursework consists of a minimum of 30 credits and must contain concepts in inorganic and organic chemistry, human physiology, genetics, cellular and molecular biology, and biochemistry. Other required coursework includes a minimum of 3 credits of mathematics at a level of pre-calculus or above and 3 credits of statistics. Depending on the certificate program chosen, students may be able to take the math or statistics requirement while completing the program.

Applicants wishing to apply for a certificate program must have a 2.5 minimum cumulative grade point average on a 4.0 scale for admission consideration with a minimum grade point average in the math and sciences of 2.5.. An earned grade of "C" or better in all biological science, chemistry, math at a level of pre-calculus or above and statistics is required for admissions consideration.

Medical Chemistry Concentration

Fall Semester
BLS.441 Medical Immunology
BLS 411 Medical Chemistry I
MLS.415 Analytical Chemistry Lab
PHIL/THEO 200 level or above

Spring Semester
MLS.462 Advanced Topics/Case Correlation-Medical Chemistry
BLS.412 Medical Chemistry II
BLS.311 Urinalysis & Body Fluids
MLS.315 Urinalysis & Serology Lab
MLS.320 Principles of Clinical Education
MLS.330 Clinical Laboratory Management
BLS.413 Principles & Techniques in Molecular Biology I
PE.110 Introduction to Interprofessional Education
HCE.201 Healthcare Ethics

Summer/Fall Semester
MLS.416 Molecular Biology Lab
MLS.470 Clinical Chemistry Routine Practicum
MLS.471 Clinical Chemistry Testing
MLS.472 Clinical Chemistry Special Testing Practicum
MLS.473 Clinical Chemistry Special Testing
MLS.477 Clinical Phlebotomy Practicum
MLS.482 Clinical Urinalysis Practicum

Hematology Concentration

Fall Semester
BLS.441 Medical Immunology
BLS.421 Hematology
MLS.425 Hematology & Lab
XXX PHIL/THEO Elective

Spring Semester
BLS.422 Hemostasis and Thrombosis
BLS.311 Urinalysis & Body Fluids
MLS.315 Urinalysis & Immunology Lab
MLS.320 Principles of Clinical Education
MLS.330 Clinical Laboratory Management
BLS.413 Principles & Techniques in Molecular Biology
MLS.462 Advanced Topics & Case Correlations-Clinical Hematology
IPE.110 Introduction to Interprofessional Education (IPE)
HCE.201 Healthcare Ethics

Summer/Fall Semester
MLS.416 Molecular Biology Lab
MLS.474 Clinical Hematology Practicum
MLS.475 Clinical Hematology
MLS.482 Clinical Urinalysis Practicum
MLS.476 Clinical Hemostasis Practicum
MLS.477 Clinical Phlebotomy Practicum

Microbiology Concentration

Fall Semester
BLS.441 Medical Immunology
BLS.451 Medical Microbiology
XXX PHIL/THEO Elective
HCE.201 Healthcare Ethics

Spring Semester
IPE.110 Introduction to Interprofessional Education (IPE)
MLS.452 Medical Bacteriology
MLS.455 Medical Bacteriology Laboratory
MLS.464Advanced Topics & Case Correlations-Clinical Microbiology
MLS.453 Medical Mycology
MLS.454 Medical Parasitology
MLS.456 Medical Mycology/Parasitology Lab
MLS 320 Principles of Clinical Education
MLS 330 Clinical Laboratory Management
BLS.413 Principles & Techniques in Molecular Biology

Summer/Fall Semester
MLS.416 Molecular Biology Lab
MLS.480 Clinical Microbiology Practicum
MLS.481 Clinical Microbiology
MLS.477 Clinical Phlebotomy Practicum

Program Accreditation
The programs are accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) | 8410 West Bryn Mawr Avenue, Suite 670 | Chicago, IL 60631 | (773) 714-8880.

Certificate in Cytotechnology (CCT)

Program Description
The Biomedical Laboratory Science (BLS) department offers a one year *post-baccalaureate* certificate program in cytotechnology. The certificate curriculum provides students with a strong science background, medically applied courses, and corresponding practicum experiences in the cytotechnology laboratory. The cytotechnologist is a health care professional whose primary responsibility is the microscopic examination of cell samples for morphologic changes that indicate infectious disease or malignancy. The expert eyes of the cytotechnologist detect clues to disease in the delicate patterns of the cytoplasm and nucleus of the cells. Results of cytotechnology analyses assist in the diagnosis of infectious, pre-cancerous and malignant disease. The majority of the workload of a cytotechnologist is in the evaluation of PAP smears, fine needle biopsies from lymph nodes and other tissues. The didactic curriculum culminates in an 8 week practicum in cytotechnology laboratories. Progression through the certificate program is based on meeting academic, psychomotor, and professional behavior requirements. Upon successful completion of the certificate program, students are eligible for national certification as a cytotechnologist. In addition to working in clinical cytotechnology labs many graduates continue their education in medical school, graduate school, and other professional programs.

General Prerequisites
A conferred degree from a regionally accredited college/university is required for program admission consideration. Students must have completed at least 28 credits in the biological sciences and chemistry of which at least 20 credits must be in biology and at least 8 credits in chemistry. In addition, students must have at least 3 credits of mathematics at a level of pre-calculus or above and at least 3 credits in statistics. Applicants wishing to apply for the certificate program must have a 2. 5 minimum cumulative grade point average on a 4.0 scale with a minimum of 2.5 grade point average in math and science for admission consideration.

Required Medical Laboratory Science Courses
BLS.413 Principles & Techniques in Molecular Biology
MLS.416 Molecular Biology Lab
MLS.330 Clinical Laboratory Management

Required Cytotechnology Courses
CYTO.400 Introduction to Cytology
CYTO.410 Female Genital Tract I
CYTO.411 Female Genital Tract II
CYTO.420 Female Genital Tract III
CYTO.430 The Processing Laboratory
CYTO.440 Respiratory and Oral Cytology
CYTO.460 Body Fluid Cytology
CYTO.470 Gastrointestinal & Genitourinary Cytology
CYTO.480 Fine Needle Aspiration Cytology
CYTO.490 Advanced Practices in Cytology

Program Accreditation
The program is accredited by Commission on Accreditation of Allied Health Education Programs (CAAHEP) through the American Society of Cytopathology (ASC), Cytotechnology Programs Review Committee (CPRC) | 400 West 9th, Street Suite 201 | Wilmington, DE 19801-1555 | (312) 553-9355

HEALTH INFORMATICS AND INFORMATION MANAGEMENT

Deborah E. Seale, M.A., Ph.D.
Interim Graduate Program Director

The Department of Health Informatics and Information Management offers a program leading to the Master of Science in Health Informatics (M.S.H.I.) degree. The M.S.H.I. is a 30 credit, non-thesis, interdisciplinary degree that prepares individuals to apply fundamentals from information science, computer science, management science, and health science to professional practice in the field of health informatics. The program prepares graduates to take leadership roles in the design, development, adoption and application of information systems in healthcare services delivery, management and planning. The program is designed for individuals with previous experience or education in healthcare, information technology, or administration. Course schedules are tailored to enhance existing knowledge and skills in one disciplinary area with knowledge and skills in the other disciplinary areas.

Master of Science in Health Informatics

Prerequisite
Baccalaureate degree from an accredited institution

A minimum 3.0 grade point average in the last 60 credits of undergraduate study

Required Courses
MHI.520 Introduction to Health Informatics
MHI.525 Strategic Leadership in Health Informatics
MHI.530 Information Security
MHI.540 Clinical Decision Support
MHI.550 Regulations and Standards
MHI.560 Resource Management
MHI.590 Applied Project I
MHI.591 Applied Project II
HMP.593 Healthcare Project Management
ITM.630 Database Management Systems

Elective Courses
Elective courses may be substituted if a required course was previously taken at the post-baccalaureate level or if students have documented work experience in the subject area. Approval to substitute a course must be given by the M.S.HI program director.

HMP.500 US Health Care Delivery System
MHI.510 Medical Vocabularies and Classification Systems
ITM.610 Systems Analysis and Design
IF.505 Programming and Problem Solving
IF.510 Knowledge Management

Additional Requirements
Medical Terminology -completion of a college level course or demonstrated competency in medical terminology

MEDICAL IMAGING AND RADIATION THERAPEUTICS

William Hubble, M.A., CNMT, RT(R)(N)(CT), FSNMMITS
Department Chair

Master of Science in Molecular Imaging and Therapeutics (MIT)

Medhat Osman, M.D., Ph.D.
Program Director

Debra Hewing, M.B.A., CNMT, RT (N), NCT, CCRP
Program Coordinator

Program Faculty
William Hubble, M.A., CNMT, RT (R)(N)(CT), FSNMMITS
Kathleen Kienstra, M.A.T, RT (R)(T)
Marcey Kennedy, M.A., ARTMRIT, RT (MR)
Sherry Bicklein, MHI, RT (R)(T)
Crystal Botkin, M.P.H., CNMT, PET
J. Austin Turner, B.S., CNMT, PET, RT (MR)
Patrick Kelly, Ph.D.

Saint Louis University's Master of Science (M.S.) in Molecular Imaging and Therapeutics (MIT) program is for students with a background in imaging or radiologic science who want to pursue a new area of study for educational and research purposes.

This degree is a 12-month, three-semester program with a rigorous curriculum and three separate educational pathways. This degree option combines a collaborative research component with individual areas of imaging and therapeutic sciences to make it a unique offering in the radiologic sciences.

Students choose to study one of the following: magnetic resonance imaging, nuclear medicine technology or radiation therapy. The program includes a required Masters Seminar course each semester which will contain an advanced scholarly component designed to enhance the content of other courses in their chosen area of study. The masters seminar courses are completed under the direction of a scholarly mentor and will result in a scholarly project suitable for publication in a peer reviewed journal, professional presentation or scholarly equivalent by program completion.

Students with a baccalaureate degree in a radiologic science discipline can apply to the one year program online at mit.slu.edu. The admissions process is competitive. To be considered in the first round of applicant review, applications should be received by March 1st for fall entry. Progression through the program is based on meeting academic and professional behavior requirements.

MIT Program Website: http://www.slu.edu/x57680.xml

Prerequisites
Bachelor of Science degree in a radiologic science discipline (MRI, NMT, RT, etc.). It is preferred that applicants had followed a pre-physician assistant or pre-medicine track and maintained a grade point average of 3.0 or above on a 4.0 scale. Course prerequisites including biology, chemistry, physics, human anatomy and physiology, ethics, and statistics (must be within the last 5 years) with a B or above in all discipline specific courses is desired. Applicants must also be registered in their discipline of radiology or be registered within 6 months of completing their entry level program to proceed in the program. A GRE is required, but will be waived for students who have a baccalaureate degree from Saint Louis University. Refer to the MIT Program website for further information.

Required Courses

Magnetic Resonance Imaging Concentration

MIT.511 MRI Physical Principles
MIT.512 MRI Cross Sectional Anatomy
MIT.513 MRI Instrumentation / QA
MIT.514 MRI Clinical / Image Production
MIT.515 MRI Patient Care / Safety
MIT.600 Masters Seminar I
ORES.530 Foundation Outcomes Research
MIT.521 Clinical MRI Practicum I
MIT.522 Advanced / Emerging Technologies
MIT.610 Masters Seminar II
MIT.599 Clinical MRI Practicum II
MIT.620 Masters Seminar III

Nuclear Medicine Technology Concentration

MIT.551 NMT Radiation Physics and Radiation Protection
MIT.552 NMT Radiochemistry / Radiopharmacy
MIT.553 NMT Nuclear Medicine Instrumentation
MIT.554 NMT Clinical Nuclear Medicine
MIT.555 NMT Nuclear Medicine Information Systems
MIT.600 Masters Seminar I
ORES.530 Foundation Outcomes Research
MIT.561 NMT Imaging Practicum
MIT.562 NMT Radiopharmacy Clinical Practicum
MIT.563 NMT Emerging Technologies
MIT.610 Masters Seminar II
MIT.598 NMT Clinical Practicum
MIT.620 Masters Seminar III

Radiation Therapy Concentration

MIT.531 XRT Radiation Physics
MIT.532 XRT Radiation Therapy Practice I
MIT.533 XRT Treatment Technique
MIT.534 XRT Treatment Planning
MIT.536 XRT Emerging Technologies
MIT.540 XRT Radiation Oncology Patient Care and QM
MIT.541 XRT Radiobiology and Radiation Protection
MIT.600 Masters Seminar I
ORES.530 Foundation Outcomes Research
MIT.535 XRT Clinical Practicum I
MIT.542 XRT Radiation Therapy Practice II
MIT.544 XRT Clinical Dosimetry
MIT.610 Masters Seminar II
MIT.545 XRT Clinical Practicum II
MIT.620 Masters Seminar II

HEALTH SCIENCES

Elizabeth A. Gockel-Blessing, Ph.D., MLS (ASCP)^{CM}
Program Director

Program Faculty
Lisa L. Dorsey, Ph.D., M.B.A., PT
Elizabeth A. Gockel-Blessing, Ph.D., MLS(ASCP)^{CM}
Patrick Kelly, Ph.D., M.A.P.A.
Jeanne Melton, DHA, M.H.A.
Elaina Osterbur, Ph.D., M.A.

Master of Science in Health Sciences

Program Description
Saint Louis University's Master of Science in Health Sciences (M.S.H.S) program is designed for individuals with an undergraduate degree, preferably in a health sciences discipline. The M.S.H.S. is a 36 credit degree program that will equip graduates with the tools and skills necessary to assume a variety of roles in health care that may involve teaching, administrative responsibilities and critical inquiry. It is important to note that this program is not an MCAT preparation course. Rather, the program is in alignment with the rigor expected of students in post-baccalaureate level professional programs. The program has the potential to enhance applications to such programs by way of exposure to directed research. Students will complete a significant research project suitable for publication in a peer-reviewed journal, professional presentation or scholarly equivalent by program completion. The ultimate goal of the program is to advance students' knowledge of health sciences fields and critical inquiry.

The Master of Science in Health Sciences (M.S.H.S.) is a 36-credit program consisting of 21 credits of core health sciences coursework, 9 credits of research-intensive study, and 6 credits of electives. Students are paired with a faculty research mentor who will assist them in the design and implementation of a thesis research project. The length of time required to complete the M.S.H.S. program is two years (five semesters) that includes one summer term. Along with taking the required courses, students are required to participate in a writing group facilitated by University Writing Services and the M.S.H.S. Program Director fall and spring semesters of both years of the program. In addition to verbally defending their thesis proposal and final projects and writing a thesis document in the format determined by each student's research mentor, students must successfully pass a program comprehensive exam to graduate from the program.

Required Courses

HSCI.500 Science and Philosophy
HSCI.505 Foundations of the US Health Care System
HSCI.510 Seminar I
HSCI.515 Seminar II
HSCI.520 Seminar III
HSCI.525 Qualitative Methods for Health Sciences Research
HSCI.530 Research I
HSCI.535 Research II
HSCI.540 Research III
HSC.550 Advanced Consortium
HSCI.555 Introduction to Applied Epidemiology-Biostatistics
HSCI.560 Essential Concepts in Statistics and Research Design
XXX.XXX Elective I*
XXX.XXX Elective II*

*Elective courses are determined by students in consultation with their research faculty mentor and are designed to allow students to select 6 credits of course work pertinent to their thesis research topic.

NUTRITION AND DIETETICS

Mildred Mattfeldt-Beman, Ph.D.
Department Chairperson
Coordinator of Medical Dietetics Emphasis,
Interim Dietetic Internship Director

Steven Jenkins, M.A., Chef,
Coordinator of Culinary Entrepreneurship Emphasis
Coordinator of Food Innovation and Entrepreneurship Emphasis

Edward Weiss, Ph.D.,
Coordinator of Nutrition and Physical Performance Emphasis

Lori Jones, M.S., M.P.H.,
Coordinator of dual M.S./M.P.H. Program

The Department of Nutrition and Dietetics offers a dietetic internship program programs leading to the Master of Science in Nutrition and Dietetics degree. All interns register as students, and thirty credits of post-baccalaureate courses are incorporated into the internship. Upon completion of the internship, students will receive their master's degree and are eligible to sit for the national registration exam.

Medical dietetics, culinary entrepreneurship, food innovation and entrepreneurship, and nutrition and physical performance are available as areas of emphasis in the master's program. Students in both the culinary and food innovation and entrepreneurship emphasis complete a one semester, 20 hour per week practicum arranged to provide experience in sustainable food systems, culinary and entrepreneurship, as well as research. Students in the nutrition and physical performance emphasis complete a one semester, 20 hour per week practicum arranged to provide experience in exercise/nutrition testing and measurement, as well as research.

The department, in conjunction with the College for Public Health and Social Justice, also offers a dual M.S. in Nutrition and Dietetics/M.P.H. degree program. Students in the dual Master of Science in nutrition and dietetics/ M.P.H. program take the core courses from each of the two programs to provide a solid base in both fields. The total credit requirement is 54. Students will complete a one-semester, 20-hour per week practicum in an area combining dietetics and public health designed to strengthen their area of primary interest as well as research. Graduates are prepared to conduct health promotion programs, provide nutrition care and counseling, formulate specific dietary plans, participate in food systems management, and may engage in biochemical and nutrition research in universities and in industry.

Dietetic Internship

Prerequisite
Bachelor of Science degree in dietetics or related area of study with certification of completion of the didactic program requirements (DPD) of the Academy of Nutrition and Dietetics.

Required Courses
DIET.510 Human Nutrition in Physiology and Metabolism I
DIET.513 Human Nutrition in Physiology and Metabolism II
DIET.535 Clinical Systems Management
DIET.XXX Emphasis Specific Elective(s)
DIET.588 Seminar in Dietetics Research
DIET.589 Research in Nutrition and Dietetics (two semesters)
DIET.594 Dietetic Internship (three semesters)
Other required courses based on concentration.

Master of Science in Nutrition and Dietetics

Prerequisites
Bachelor of Science degree in dietetics or related area of study, biochemistry, basic nutrition, advanced nutrition, medical nutrition therapy I and II, Nutrition in the Life Cycle, and Inferential Statistics or equivalent.

Medical Dietetics Concentration

Required Courses
DIET.510 Human Nutrition in Physiology and Metabolism I
DIET.513Human Nutrition in Physiology and Metabolism II
DIET.535 Clinical Systems Management
DIET.555 Nutrition Counseling
SOC.610 **or** Advanced Statistics course
DIET.588 Seminar in Dietetics Research
DIET.589 Research in Nutrition and Dietetics

Twelve credits selected from
DIET.503 Sustainable Food Systems
DIET.507 Culinary and Medicinal Herbs
DIET.521 Pediatric Nutrition
DIET.522 Gerontological Nutrition
DIET.530 Community Nutrition
DIET.540 Nutrition Education
DIET.550 Nutrition and Physical Performance

A formal minor is permitted.

Culinary Entrepreneurship Concentration

Additional Prerequisites
Minimum of an Associate Degree in Culinary; human physiology; and community nutrition.

Required Courses
DIET.503 Sustainable Food Systems
DIET.510 Human Nutrition in Physiology and Metabolism I
DIET.513 Human Nutrition in Physiology and Metabolism II
DIET.588 Seminar in Dietetics Research
DIET.589 Research in Nutrition and Dietetics
DIET.590 Culinary Practicum
MGT.620 New Venture Initiation
MGT.621 Advanced Business Planning for New Ventures
ACCT.501**or** MKT.600 **or** Approved course

Six credits selected from
DIET.575 Gastronomy
DIET.5XX Sustainable Cooking in Tuscany
DIET.5XX Creating Sustainable American Cuisine
DIET.505 Food Processing: Farm to Institution
DIET.535 Clinical Systems Management
A formal minor is permitted.

Food Innovation and Entrepreneurship Concentration

Additional Prerequisites for Food Innovation and Entrepreneurship Emphasis
Minimum of an Associate Degree in Culinary Arts or the equivalent coursework in culinary arts

Required Courses
DIET.501 Survey of Nutrition for AHP
DIET.503 Sustainable Food Systems
DIET.505 Food Processing: Farm to Institution
DIET.575 Gastronomy
DIET.588 Seminar in Dietetics Research
DIET.589 Research in Nutrition and Dietetics

DIET.590 Culinary Practicum
MGT.620 New Venture Initiation
MGT.621 Advanced Business Planning for New Ventures
ACCT.501 **or** MKT.600 **or** Approved course

Three credits selected from
DIET.5XX Sustainable Cooking in Tuscany
DIET.5XX Creating Sustainable American Cuisine

Nutrition and Physical Performance Concentration

Additional Prerequisites
Human anatomy; human physiology; and community nutrition.

Required Courses
DIET.510 Human Nutrition in Physiology and Metabolism I
DIET.513 Human Nutrition in Physiology and Metabolism II
DIET.555 Nutrition Counseling
DIET.550 Nutrition and Physical Performance
DIET.570 Exercise Testing and Prescription
DIET.580 Cardiovascular & Metabolic Aspects of Exercise Physiology
DIET.581 Practical Aspects of Exercise Testing and Prescription
DIET.569 Bioenergetics of Exercise
DIET.588 Seminar in Dietetics Research
DIET.589-02 Research in Nutrition and Dietetics

Three credits selected from
DIET.522 Gerontological Nutrition
DIET.535 Clinical Systems Management
DIET.530 Community Nutrition
DIET.540 Nutrition Education

A formal minor is permitted

M.S. in Nutrition and Dietetics/M.P.H. Dual Degree Program

Additional Prerequisites
Foundations in Community Nutrition; and Nutrition Counseling

Required Courses
DIET.510 Human Nutrition in Physiology and Metabolism I
DIET.513 Human Nutrition in Physiology and Metabolism II
DIET.530 Community Nutrition
DIET.540 Nutrition Education
DIET.545 Patient/Client Nutrition Management Practicum
DIET.588 Seminar in Dietetics Research
DIET.589-07 Research in Nutrition and Dietetics

Three credits selected from

DIET.503 Sustainable Food Systems
DIET.507 Culinary and Medicinal Herbs
DIET.521 Pediatric Nutrition
DIET.522 Gerontological Nutrition
DIET.535 Clinical Systems Management
DIET.550 Nutrition and Physical Performance
DIET.555 Nutrition Counseling

Additional Requirements
Core courses for M.P.H. program; course list is available at: https://www.slu.edu/college-for-public-health-and-social-justice/dual-degree-mphms

Program Accreditation
The program is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) for the Academy of Nutrition and Dietetics, 120 South Riverside Plaza, Suite 2000, Chicago, IL, 60606-6995, (312) 899-0040 ext. 5400.

OCCUPATIONAL SCIENCE AND OCCUPATIONAL THERAPY

Debra A. Rybski, M.S., M.S.HCA, OTR/L
Chair

Program Faculty
S. Omar Ahmad, Ph.D., OTD/L
Rebecca M. Aldrich, Ph.D., OTR/L
Karen F. Barney, Ph.D., OTR/L, FAOTA, Emerita
Jeanne R. Eichler, M.O.T., OTR/L, MT
Julia Henderson-Kalb, M.S., OTR/L
Lisa Jaegers, Ph.D., OTR/L
S. Margaret Maloney, Ph.D., OTR/L
Cynthia S. Matlock, M.B.A., OTR/L
Sherry L. Muir, M.O.T., OTR/L, ABD
Charlotte Royeen, Ph.D., OTR/L, FAOTA
Kathleen L. Serfas, OTD, OTR/L
Sarah Walsh, M.O.T., OTR/L

This program offers two degrees: a bachelor of science in occupational science (B.S.O.S.) and a master of occupational therapy (M.O.T.) degree. Occupational science is the study of the forms and meaning of human activity, and how everyday activities influence individuals' sense of identity and roles within families and communities. Occupational therapy is a health profession that employs everyday activities in the service of helping people to live healthy and satisfying lives. Services are provided to individuals who are at risk, or who have disabling conditions or life circumstances that prevent full participation in the roles and activities that they value.

Students have guaranteed entry into the post-baccalaureate level master's program if they have successfully completed all the requirements of the undergraduate program. The combined B.S.O.S. and M.O.T. program is five years of study.

Qualified post-baccalaureate students with degrees in other fields may apply to the M.O.T. program for an additional two years of study (including one summer semester). For more information, please visit: http://www.slu.edu/x2400.xml .

Non-Academic Requirements
Fieldwork experiences in community and clinical practice settings are required in occupational therapy education. Regulations require all students to complete a criminal background check and a drug test at least once during the Program, either or both of these may be repeated as agency requirements demand. Positive results from the criminal background check or drug tests may result in ineligibility to graduate from the program. A felony conviction will affect a graduate's eligibility for professional certification and licensure.

Master of Occupational Therapy

Required Courses
ANAT.400 Gross Anatomy
OCS.462 Clinical Conditions & Phenomenology
MOT.500 Fundamentals of OS for Post-Bac. Students
MOT.502 Professional Development I
MOT.503 Professional Development II
MOT.504 Professional Development III
MOT.515 Kinesiology
MOT.517 Neuroscience in Occupational Therapy
MOT.520 Clinical Conditions & Phenomenology
MOT.525 OT Policy & Administration
MOT.526 Problem Based Learning
MOT.530 Fundamentals of Occupational Therapy Practice
MOT.535 Theoretical Foundations of Occupational Therapy
MOT.540 Occupational Therapy for Adults with Physical Dysfunction
MOT.541 Occupational Therapy in Behavioral Health I
MOT.545 Occupational Performance & Assessment of Children & Youth
MOT.546 Occupational Therapy with Aging Adults
MOT.549 Applied Research I
MOT.550 Applied Research II
MOT.555 Occupational Therapy in Neurological Rehabilitation
MOT.556 Occupational Therapy in Behavioral Health II
MOT.560 Occupational Therapy with Children & Youth
MOT.565 Applied Research III
MOT.566 Applied Research IV
MOT.570 Level II Fieldwork (12 weeks)
MOT.575 Level II Fieldwork (12 weeks)

Graduation
Upon completion of all requirements, students receive the master's in occupational therapy (M.O.T.) degree and are eligible to sit for the national certification examination administered by the National Board for Certification in Occupational Therapy (NBCOT). In addition to passing the national exam, most states require licensure in order to practice.

NOTE: All Level II Fieldwork must be complete within 18 months following completion of academic preparation.

Program Accreditation
The program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220; ACOTE's telephone number is (301) 652-AOTA

PHYSICIAN ASSISTANT EDUCATION

Anne C. Hart Garanzini, M.Ed., PA-C
Chair
Genevieve A. DelRosario, M.H.S., PA-C,
Director of Clinical Education

Michael J. Cox, M.D., FACP, FCCP,
Medical Director

Carol R. Danter, M.P.A.S., PA-C
Program Director

Program Faculty
A. Caroline Chang, M.M.S., PA-C
Chezna W. Warner, M.S.W., MHS, PA-C
Christine M. Werner, Ph.D., RD, PA-C
Mary White, ascj, M.S., PA-C

The Department of Physician Assistant Education (PA) offers a 27 month, year round, competency based program with a rigorous didactic and clinical curriculum leading to a Master of Medical Science (M.M.S.) degree. During the didactic phase (4 semesters), students study the basic medical sciences of anatomy and physiology, as well as applied behavioral sciences and the foundations of clinical medicine. Educational material is presented through organ system based courses/modules which support the integration of complex disease processes with diagnosis and treatment. The clinical phase (3 semesters) consists of rotations in Internal Medicine, General Surgery, Pediatrics, Emergency Medicine, Women's Health, Family Medicine, Psychiatry/Behavioral Medicine and two rotations in clinical specialties of choice (Clinical Elective and EBM Clerkship). While working clinically with the supervision of a physician or mid-level preceptor, students actively participate in the care of patients of all ages and backgrounds. Graduates of this program are eligible to sit for the Physician Assistant National Certifying Exam (PANCE). Certified physician assistants diagnose and treat patients and are employed in Primary Care and in essentially every medical and surgical specialty and subspecialty in which physicians are employed, including hospitals, clinics, medical offices and other healthcare settings.

Master of Medical Science (M.M.S.)

Prerequisites
Baccalaureate degree earned by May prior to matriculation. Minimum science grade point average of 3.0 and minimum overall grade point average of 3.0. Minimum 500 hours of direct patient care experience at time of application with preference given to applicants with credentialed paid work experience providing direct patient care. Successful completion of the following prerequisite courses or equivalents: medical terminology; statistics; college chemistry I & II; organic chemistry I & II; microbiology; vertebrate or human anatomy; vertebrate or human physiology; molecular biology, genetics or upper-level biochemistry. Admissions considerations also include the number of science prerequisites completed by the time of application, the number of science prerequisites completed at a 4-year university rather than online or at a community college, the date of the applicant's undergraduate degree conferral, and more.

Required Courses

BLS.460 Clinical Laboratory Medicine
ANAT.400 Human Gross Anatomy
PAED.501 Professional and Psychosocial Issues of PA Practice
PAED.504 Physiology
PAED.507 Principles of the Medical Interview
PAED.511 Introduction to the Systems Approach & Integument
PAED.512 Principles and Practice of Hematology
PAED.513 Principles & Practice of Otorhinolaryngology & Ophthalmology
PAED.515 Pharmacology I
PAED.520 Pharmacology II
PAED.521 Principles and Practice of Pulmonology
PAED.522 Principles and Practice of Cardiovascular Medicine
PAED.523 Principles and Practice of Gastroenterology & Nutrition
PAED.524 Principles and Practice of Nephrology & Genitourinary Medicine
PAED.525 Principles and Practice of Endocrinology
PAED.530 Evidence-Based Medicine
PAED.531 Principles and Practice of Orthopedics & Rheumatology
PAED.532 Principles and Practice of Neurology
PAED.533 Essentials of Surgery
PAED.534 Essentials of Emergency Medicine
PAED.536 Essentials of Pediatrics
PAED.537 Essentials of Behavioral Medicine
PAED.538 Essentials of Obstetrics & Gynecology
PAED.540 Internal Medicine
PAED.542 Family Medicine
PAED.551 General Surgery
PAED.560 Pediatrics
PAED.570 Psychiatry and Behavioral Medicine
PAED.575 Women's Health
PAED.580 Emergency Medicine
PAED.586 EBM Clerkship
PAED.593 Clinical Elective
PAED.600 Senior Seminar

Additional Requirements

In addition to meeting all the prerequisite requirements outlined above, graduates of an international college/university are also required to successfully complete at least 9 credits (3 classes) of social-behavioral science courses (e.g., psychology, sociology) and 12 credits (4 classes) of upper division science courses at an accredited, four-year U.S. college or university (online coursework is not acceptable). International medical graduates must have at least 500 hours of healthcare experience and at least 250 of those hours must be earned in the U.S. by the time of application. Applicants whose native language is other than English are required to take the TOEFL® Internet-based Test by November 1. A combined minimum score of **100** is required, with minimum component scores of 22-Reading, 22-Listening, 26-Speaking and 24-Writing.

Program Accreditation

The Accreditation Review Commission on Education for the Physician Assistant has granted Accreditation-Continued to the Physician Assistant Program sponsored by Saint Louis University. Accreditation-Continued is an accreditation status granted when a currently accredited program is in compliance with the ARC-PA Standards.

Accreditation remains in effect until the program closes or withdraws from the accreditation process or until accreditation is withdrawn for failure to comply with the Standards. The approximate date for the next validation review of the program by the ARC-PA will be March 2020. The review date is contingent upon continued compliance with the Accreditation Standards and ARC-PA policy.

PHYSICAL THERAPY AND ATHLETIC TRAINING

Mark Reinking, PT, Ph.D., SCS, ATC
Chair

The Department of Physical Therapy & Athletic Training includes two separate professional programs, the program in physical therapy and the athletic training program.

PHYSICAL THERAPY

Mark Reinking, PT, Ph.D., SCS, ATC
Program Director

Tricia Austin, PT, Ph.D., ATC
Assistant Program Director

Carol Beckel, PT, Ph.D.,
Director of Clinical Education

Program Faculty
Jason Bennett, PT, Ph.D., SCS, ATC
Jill FitzGerald, PT, D.P.T.
Alicia Flach, PT, D.P.T., NCS
Ethel Frese, PT, D.P.T., CCS
Kelly Hawthorne, PT, D.P.T., GCS
Ann Marcolina Hayes, PT, D.P.T., OCS
Ginge Kettenbach, PT, Ph.D.
Kim Levenhagen, PT, D.P.T., WCC
Randy Richter, PT, Ph.D.
Gretchen Salsich, PT, Ph.D.
Darina Sargeant, PT, Ph.D.
Sara Scholtes, PT, D.P.T., Ph.D.
Chris Sebelski, PT, D.P.T., OCS
Joanne Wagner, PT, Ph.D.
Barbara Yemm, PT, D.P.T., OCS

The program in physical therapy is a freshman entry six-year curriculum leading to a Bachelor of Science in exercise science (B.S.E.S.) degree after the fourth year and a doctor of physical therapy (D.P.T.) degree after the sixth year. *Students with a baccalaureate degree can apply to the three-year D.P.T. program but transfer admission is on a space available basis and is historically very limited.* The admissions process in physical therapy is competitive and post-baccalaureate students must apply through the Physical Therapy Centralized Application Service (www.ptcas.org). Progression through the program is based on meeting academic and professional behavior requirements. PT Program Website: http://pt.slu.edu

Doctor of Physical Therapy

Prerequisites
Bachelor of science degree with course prerequisites including biology, chemistry, physics, human anatomy and physiology, ethics, statistics, general psychology, abnormal psychology, and exercise physiology. Refer to the program in physical therapy website for further information.

Required Courses
ANAT.400 Gross Anatomy
ANAT.430 Neuroscience
DIET.502 Aspects of Nutrition for Physical Therapy
DPT.403 Documentation
DPT.405 Human Growth & Development
DPT.411 Kinesiology I
DPT.412 Kinesiology II
DPT 413 Survey of Disease

DPT.415 Therapeutic Exercise
DPT.420 Developmental Biology
DPT.430 Therapeutic Modalities
DPT.455 Basic Exam
DPT.460 Clinical Research & Design
DPT.470 Basic Procedures
DPT.484 Skills Practicum
DPT.507 Applied Neuroscience
DPT.508 Professional Development I
DPT.510 Professional Development II
DPT.512 Professional Development III
DPT.519 Biomechanical Interventions
DPT.520 Musculoskeletal Conditions I
DPT.521 Musculoskeletal Conditions II
DPT.522 Musculoskeletal Conditions III
DPT.523 Musculoskeletal Conditions IV
DPT.525 Clinical Gait
DPT.526 Neuropathology
DPT.527 Neurological Conditions I
DPT.528 Neurological Conditions II
DPT.529 Cardiopulmonary Conditions
DPT.534 Multisystem Management
DPT.540 Lab Studies & Imaging
DPT.542 Pharmacology
DPT.560 Departmental Administration
DPT.561 Applied Administration & Management
DPT.563 Evidence Based Practice
DPT.565 Components of Effective Communication & Teaching
DPT.566 Concepts of Wellness
DPT.570 Patient Management I
DPT.571 Patient Management II
DPT.572 Patient Management III
DPT.580 Clinical Rotation IA (5 wks)
DPT.581 Clinical Rotation IB (5 wks)
DPT.582 Clinical Rotation IIA (5 wks)
DPT.583 Clinical Rotation IIB (5 wks)
DPT.584 Clinical Internship A (10 weeks)
DPT.585 Clinical Internship B (10 weeks)
DPT.590 Applied Evidence Based Practice

Program Accreditation
The program in physical therapy at Saint Louis University is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, Virginia 22314; telephone: (703) 706-3245; email: accreditation@apta.org ; website: www.capteonline.org

ATHLETIC TRAINING

Anthony Breitbach, Ph.D., ATC
Program Director

Timothy Howell, EdD, ATC, CSCS
Clinical Education Coordinator

L. Tyler Wadsworth, M.D.
Medical Director

Program Faculty
Mike Markee, ATC, PT, OCS, COMT
Katherine Newsham, Ph.D., ATC

The Athletic Training (AT) Program is a freshman entry five-year curriculum leading to a B.S.E.S. degree after the fourth year and a master of athletic training (M.A.T.) degree after the fifth year. *Students with a baccalaureate degree can apply to the two year professional program but transfer admission is on a space available basis and is limited.* Application information is available on the athletic training program website. Progression through the program is based on meeting academic and professional behavior requirements. AT Program Website: http://at.slu.edu

Master of Athletic Training

Prerequisites
Bachelor of science degree with course prerequisites including biology, chemistry, physics, human anatomy and physiology, exercise physiology, ethics, general psychology, pre-calculus, statistics and medical terminology.

Required Courses
ANAT.400 Gross Anatomy
MAT.430 Therapeutic Modalities
MAT.501 Principles of Athletic Training

MAT.510 Athletic Training Kinesiology
MAT.516 Bioenergetics of Athletic Performance
MAT.524 Musculoskeletal Assessment & Mgmt I
MAT.525 Musculoskeletal Assessment & Mgmt II
MAT.540 Lab Studies and Imaging
MAT.550 Rehabilitation in Athletic Training I
MAT.555 Rehabilitation in Athletic Training II
MAT.560 Athletic Training Administration
MAT.562 Psychology of Sport and Injury
MAT.565 Research in Athletic Training
MAT.570 AT Clinical Practicum I
MAT.575 AT Clinical Practicum II
MAT.580 Medical Conditions in Athletic Training
MAT.590 AT Field Experience
MAT.595 AT Clinical Practicum III
MAT.616 Enhancing Athletic Performance
MAT.670 AT Capstone Project
MAT.671 AT Clinical Practicum IV
MAT.680 Seminar in Athletic Training

Program Accreditation

The program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE) as a Graduate Professional Program. The five year accreditation (2010-15) is the maximum for newly accredited programs. The Master of Athletic Training program is one of more than 350 CAATE accredited programs nationally and one of approximately 25 accredited Graduate Professional programs in the country. More information is available from the CAATE at (512) 733-9700, http://www.caate.net or 6836 Austin Center Blvd., Suite 250, Austin, TX 78731–3193

COLLEGE FOR PUBLIC HEALTH AND SOCIAL JUSTICE

Edwin Trevathan, M.D., M.P.H.
Dean

The College for Public Health and Social Justice (C.P.H.S.J.), founded as the School of Public Health in 1991, is accredited by the Council on Education for Public Health (C.E.P.H.). The College provides undergraduate, Master's and Doctoral education in public health, health management and administration, emergency management, social work, applied behavioral analysis, and criminology and criminal justice. The degree programs prepare students for private, voluntary and public-sector careers in practice and research. The C.P.H.S.J. is committed to translating the latest evidence into actions, programs and solutions to improve population health and well-being. With its strong Jesuit tradition of caring and advocating for the underserved and marginalized, the C.P.H.S.J. is committed to eliminating health disparities and increasing health and social equity.

The C.P.H.S.J. is composed of five departments and one school that administer our academic programs and conduct state-of-the-art research:

Elizabeth Baker, Ph.D., M.P.H.
Chair of Behavioral Science and Health Education

John Fu, Ph.D., M.D.
Chair of Biostatistics

Zhengmin Qian, Ph.D., M.D.
Chair of Epidemiology

Roger Lewis, Ph.D.
Chair of Environmental and Occupational Health

Keith Elder, Ph.D., M.P.H.
Chair of Health Management and Policy

Donald Linhorst, Ph.D., M.S.W.
Director of School of Social Work

As required by C.E.P.H., all of the academic programs at the C.P.H.S.J. are constructed based on competency sets. The College offers master's degrees in public health (M.P.H.), health administration (M.H.A.) and social work (M.S.W.); Master of Science degrees in public health (M.S.P.H.), biosecurity and disaster preparedness (M.S.BSDP) applied behavior analysis (M.S.ABA), and criminology and professional practice (M.S.CPP); and doctoral programs (Ph.D.) in public health studies and social work. The M.P.H. program is more than 35 years old, while the M.H.A. is more than 65 years old and ranked in the top ten in the country. The M.S.W. has been offered at Saint Louis University since the 1930s and is ranked in the top 25% of programs nationally. C.P.H.S.J. offers the only ABA program (established in 2011) within a School of Social Work.

A number of joint concentration degree programs in the M.P.H. (e.g., biostatistics and epidemiology), as well as three M.S.W. concentrations (community and organization, clinical, and applied behavior analysis) are offered by the C.P.H.S.J.. In addition, dual degree programs are available with the School of Social Work (M.P.H./M.S.W.), the School of Law (M.P.H./J.D., M.H.A./J.D., M.S.W./J.D.), the School of Medicine (M.P.H./M.D.), the Doisy College of Health Sciences Department of Nutrition and Dietetics (M.P.H./M.S.), the John Cook School of Business (M.H.A./M.B.A.), and the College of Arts and Sciences Department of Political Science (M.S.W./M.P.A.) and the Clinical Psychology Doctoral Program (M.S.P.H./Ph.D.). The College also collaborates with the Aquinas Institute of Theology to offer a dual social work and master of arts in pastoral studies (M.S.W./M.A.P.S.) and with Concordia Seminary to offer a dual social work and master of arts in deaconess studies (M.S.W./M.Deac.), dual social work and master of divinity (M.S.W./M.Div.), and dual social work and master of arts in theology (M.S.W./MA). The College also offers two certificate programs: Certificate in Biosecurity and Disaster Preparedness and Post-Master's Certificate in Applied Behavioral Analysis. Two non-traditional programs provide educational opportunities for working professionals: 1) Master of Science (M.S.) degree in Biosecurity and Disaster Preparedness offered in a distance learning format; and 2) Executive Master of Health Administration (EM.H.A.) offered in a hybrid format.

The C.P.H.S.J. offers a number of accelerated degree program options (B.S.P.H./M.P.H., B.S.H.M./M.H.A., B.S.S.W./M.S.W.) and collaborates with Augustana College to offer a B.A./M.P.H., with Fontbonne University to offer a B.S.S.W./M.S.W., and with Maryville University to offer a B.A./M.S.W..

The Ph.D. in public health studies allows students to choose from several different public health majors: behavioral science and health education; biosecurity and disaster preparedness; biostatistics; environmental and occupational health; epidemiology; health management and policy; and health services research. The Ph.D. in social work is designed to offer rigorous methodological and interdisciplinary training for social workers and related professionals.

The C.P.H.S.J. offers Bachelor of Science (B.S.) degrees in public health, health management, emergency management and social work; and a Bachelor of Arts (B.A.) degree in criminology and criminal justice.

Master of Public Health

The Master of Public Health (M.P.H.) degree has as its foundation the five areas of knowledge basic to the field of public health. All M.P.H. degrees require the completion of the following M.P.H. core curriculum and the concentration curriculum indicated.

M.P.H. Core Curriculum (21 credits)

BSH.500 Behavioral Science and Public Health;
BST.500 Principles of Biostatistics;
EOH.500 Environmental and Occupational Health;
EPI.500 Principles of Epidemiology;
PUBH.501 Mission and Practice of Global Public Health;
PUBH.502 Ethical Issues in Public Health;
PUBH.511 Managerial Aspects of Public Health Practice *or* HMP.530 Management of Health Care Organizations;
PUBH.592 Public Health Rounds: Integrating Public Health Practice *or* HMP.591 Health Management and Policy Rounds;
PUBH.594 Practice Experience in Public Health *or* HMP.594 Internship; and
PUBH.595 Special Study for Examinations *or* HMP.595 Special Study for Exams.

M.P.H., Behavioral Science and Health Education (M.P.H.-BSHE)

Prerequisites

A bachelor's degree or the equivalent in a social or biomedical science or a closely-related discipline. Professional experience in a health-related field is highly valued.

Requirements (48 total credits)

The M.P.H.-BSHE requires the completion of the M.P.H. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (27 credits)

BSH.510 Health Promotion Program Planning;
BSH.520 Historical, Philosophical and Political Bases of Public Health and Health Education;
BSH.531 Health Communication;
BSH.540 Community Diagnosis;
BSH.600 Health Promotion Program Evaluation;
BSH.625 Capstone in Behavioral Science and Health Education; and
Nine credits of advisor-approved electives.

M.P.H., Behavioral Science and Health Education & Epidemiology (M.P.H., Joint - BSHE/EPI)

Prerequisites

A bachelor's degree or the equivalent in a social or biomedical science or a closely related discipline. Professional experience in a health-related field is highly valued.

Requirements (54 total credits)

The M.P.H., Joint - BSHE/EPI requires the completion of the M.P.H. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (33 credits)

BSH.510 Health Promotion Program Planning;
BSH.531 Health Communication;
BSH.540 Community Diagnosis;
BSH.600 Health Promotion Program Evaluation;
BSH.625 Capstone in Behavioral Science and Health Education;
BST.510 Introduction to General Linear Modeling;
EPI.502 Epidemiology Methods II; and
Twelve credits of advisor-approved electives.

M.P.H., Biosecurity and Disaster Preparedness (M.P.H.-BSDP)

Prerequisites

A bachelor's degree or the equivalent in the physical, chemical or biological sciences, or six credits of college-level courses individually in chemistry, biology and the physical sciences, with an overall grade point average of 3.0 or better in the science courses; however, applicants will be considered on an individual basis.

Requirements (48 total credits)

The M.P.H.-BSDP requires the completion of the M.P.H. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (27 credits)

BSDP.566 Fundamentals of Disaster Planning;
BSDP.570 Public Health and Disasters;
BSDP.572 Communicable Diseases and Infection Control;

BSDP.573 Disaster Planning for Infectious Disease Disasters;
BSDP.576 Disaster Communications and Media Relations;
BSDP.578 Behavioral and Cultural Aspects of Disaster Response;
BSDP.582 Disaster Management and Risk Analysis;
BSDP.625 Capstone in Biosecurity and Disaster Preparedness; and
Three credits of advisor-approved electives

M.P.H., Biosecurity and Disaster Preparedness & Epidemiology (M.P.H., Joint - BSDP/EPI)

Prerequisites
A bachelor's degree or the equivalent in the physical, chemical or biological sciences, or six credits of college-level courses individually in chemistry, biology and the physical sciences, with an overall grade point average of 3.0 or better in the science courses; however, applicants will be considered on an individual basis.

Requirements (54 Total credits)

The M.P.H., Joint - BSDP/EPI, which begins in the summer semester with BSDP-566 Fundamentals of Disaster Planning, requires the completion of the M.P.H. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (33 credits)
BSDP.566 Fundamentals of Disaster Planning;
BSDP.570 Public Health and Disasters;
BSDP.572 Communicable Diseases and Infection Control;
BSDP.573 Disaster Planning for Infectious Disease Disasters;
BSDP.578 Behavioral and Cultural Implications of Disasters;
BSDP.582 Disaster Management and Risk Analysis;
BSDP.625 Capstone in Biosecurity and Disaster Preparedness;
BST.510 Introduction to General Linear Modeling;
EPI.502 Epidemiology Methods II; and
Six credits of advisor-approved electives.

M.P.H., Biostatistics (M.P.H.-BST)

Prerequisites

A bachelor's degree or the equivalent in a social or biomedical science with coursework that includes Calculus I, either Calculus II or linear algebra, basic coursework in the principles of biology and computer science, and an upper-level or equivalent course in statistics, each with a grade of B or better.

Requirements (48-51 total credits)

The M.P.H.-BST requires the completion of the M.P.H. core curriculum as revised and the concentration curriculum as follows:

Exceptions to the M.P.H. Core Curriculum
The prerequisite upper-level or equivalent course in statistics satisfies the BST.500 Principles of Biostatistics course requirement (3 credits) and decreases the M.P.H. core curriculum credits to 18.

Concentration Curriculum (30 credits)
BST.502 Theory of Biostatistics;
BST.503 Statistical Programming and Study Planning: SAS;
BST.510 Introduction to General Linear Modeling;
BST.520 Survival Data Analysis;
BST.521 Categorical Data Analysis;
BST.540 Applied Data Management;
BST.625 Capstone in Biostatistics;
EPI.502 Epidemiology Methods II; and
Six credits of advisor-approved electives.

M.P.H., Biostatistics & Epidemiology (M.P.H., Joint - BST/EPI)

Prerequisites

A bachelor's degree or equivalent with coursework that includes Calculus I, either Calculus II or linear algebra, and basic coursework in the principles of biology and computer science, and an upper-level or equivalent course in statistics, each with a grade of B or better.

Requirements (54-57 total credits)

The M.P.H., Joint - BST/EPI requires the completion of the M.P.H. core curriculum as revised and the concentration curriculum as follows:

Exceptions to the M.P.H. Core Curriculum
The prerequisite upper-level or equivalent course in statistics satisfies the BST.500 Principles of Biostatistics course requirement (3 credits) and decreases the M.P.H. core curriculum credits to 18.

Concentration Curriculum (36 credits)

BST.502 Theory of Biostatistics;
BST.503 Statistical Programming and Study Planning: SAS;
BST.510 Introduction to General Linear Modeling;
BST.520 Survival Data Analysis;
BST.521 Categorical Data Analysis;
BST.540 Applied Data Management;
BST.625 Capstone in Biostatistics;
EPI.502 Epidemiology Methods II; and
Twelve credits of advisor-approved electives.

M.P.H., Emergency Management and Crisis Leadership (M.P.H.-EMCL)

No longer accepting applications. Refer to past catalogs for degree requirements.

M.P.H., Environmental and Occupational Health (M.P.H.-EOH)

Prerequisites

A bachelor's degree or the equivalent in the physical, chemical or biological sciences, or six credits of college-level courses individually in chemistry, biology and the physical sciences, with an overall grade point average of 3.0 or better in the science courses; however, applicants will be considered on an individual basis.

Requirements (48 total credits)

The M.P.H.-EOH requires the completion of the M.P.H. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (27 credits)

EOH.510 Human Toxicology and Environmental Health;
EOH.520 Evaluation of Environmental Hazards;
EOH.530 Biological Hazards in Modern and Developing Countries;
EOH.540 Human Health Risk Analysis;
EOH.560 Policy, Science and Decisions in Environmental Health;
EOH.625 Capstone in Environmental and Occupational Health;
EPI.625 Environmental and Occupational Epidemiology; and
Six credits of advisor-approved electives

M.P.H., Environmental and Occupational Health & Biosecurity and Disaster Preparedness (M.P.H., Joint - EOH/BSDP)

Prerequisite

A bachelor's degree or the equivalent in the physical, chemical or biological sciences, or six credits of college-level courses individually in chemistry, biology and the physical sciences, with an overall grade point average of 3.0 or better in the science courses; however, applicants will be considered on an individual basis.

Requirements (54 total credits)

The M.P.H., Joint - EOH/BSDP, which begins in the summer semester with BSDP-566 Fundamentals of Disaster Planning, requires the completion of the M.P.H. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (33 credits)

BSDP.566 Fundamentals of Disaster Planning;
BSDP.570 Public Health and Disasters;
BSDP.572 Communicable Diseases and Infection Control;
BSDP.573 Disaster Planning for Infectious Disease Disasters;
BSDP.582 Disaster Management and Risk Analysis;
EOH.510 Human Toxicology and Environmental Health;
EOH.520 Evaluation of Environmental Hazards;
EOH.540 Human Health Risk Analysis;
EOH.625 Capstone in Environmental and Occupational Health
EPI.550 Environmental and Occupational Epidemiology; and
Three credits of advisor-approved electives.

M.P.H., Environmental and Occupational Health & Epidemiology (M.P.H., Joint - EOH/EPI)

Prerequisites

A bachelor's degree or the equivalent in the physical, chemical or biological sciences, or six credits of college-level courses individually in chemistry, biology and the physical sciences, with an overall grade point average of 3.0 or better in the science courses; however, applicants will be considered on an individual basis.

Requirements (54 total credits)

The M.P.H., Joint - EOH/EPI requires the completion of the M.P.H. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (33 credits)

BST.510 Introduction to General Linear Modeling;
EOH.510 Human Toxicology and Environmental Health;
EOH.520 Evaluation of Environmental Hazards;
EOH.540 Human Health Risk Analysis;
EOH.560 Policy, Science and Decisions in Environmental Health;
EOH.625 Capstone in Environmental and Occupational Health;
EPI.502 Epidemiology Methods II;
EPI.550 Environmental and Occupational Epidemiology; and
Nine credits of advisor-approved electives.

M.P.H., Epidemiology (M.P.H.-EPI)

Prerequisites
A bachelor's degree or the equivalent in a biomedical science, one of the social sciences or a closely-related discipline. Professional experience in a health-related field is highly valued.

Requirements (48 total credits)
The M.P.H.-EPI requires the completion of the M.P.H. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (27 credits)
BST.503 Statistical Programming and Study Planning: SAS;
BST.510 Introduction to General Linear Modeling;
BST.520 Survival Data Analysis;
BST.521 Categorical Data Analysis;
EPI.502 Epidemiology Methods II;
EPI.625 Capstone in Epidemiology; and
Nine credits of advisor-approved electives.

M.P.H., Global Health (M.P.H.-GLOH)

Prerequisites
A bachelor's degree or the equivalent in a biomedical science, one of the social sciences or a closely-related discipline. Professional experience in a health-related field is highly valued.

Requirements (48 total credits)
The M.P.H.-GLOH requires the completion of the M.P.H. core as revised and the concentration curriculum as follows as well as the indicated non-course requirements:

Exceptions to the M.P.H. Core Curriculum
GLOH.596 Culminating Experience (2 credits) may substitute for PUBH.595 Special Study for Examinations (zero credits); and GLOH-594 Practice Experience in Global Health (1 credit) substitutes for PUBH.594 Practice Experience in Public Health (zero credits), which increases the M.P.H. core curriculum credits to at least 22 and at most 24.

Concentration Curriculum (27 credits)
EPI.511 Epidemiology of Infectious Disease *or* BSDP-572 Communicable Diseases and Infection Control;
EPI.512 Chronic Disease Epidemiology;
GLOH.510 Global Health Assessment and Evaluation;
GLOH.520 Global Health Diplomacy and Policy; and
Fifteen credits of advisor-approved electives.

Non-course Requirements
Interagency Language Roundtable (ILR) Level 2 or 3 Foreign Language Proficiency; and International Experience

M.P.H., Health Management and Policy (M.P.H.-HMP)

Prerequisites
A bachelor's degree or the equivalent from an accredited college or university that includes completion of at least one college-level course in Microeconomics with a grade of B or higher.

Requirements (51 total credits)
The M.P.H.-HMP requires the completion of the M.P.H. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (30 credits)
HMP.500 Health Care Organization;
HMP.520 Health Economics;
HMP.521 Economic Evaluation;
HMP.550 Health Policy;
HMP.551 Health Policy and Law;
HMP.553 Capstone Seminar in Health Policy;
HMP.572 Government Financing of Health and Health Care; and
Nine credits of advisor-approved electives.

M.P.H., Health Management and Policy & Epidemiology (M.P.H., Joint - HMP/EPI)

Prerequisites
A bachelor's degree or the equivalent from an accredited college or university that includes completion of at least one college-level course in Microeconomics with a grade of B or higher.

Requirements (54 total credits)
The M.P.H., Joint HMP/EPI requires the completion of the M.P.H. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (33 credits)
BST.510 Introduction to General Linear Modeling;
EPI.502 Epidemiology Methods II;
HMP.500 Health Care Organization;
HMP.520 Health Economics;
HMP.521 Economic Evaluation;
HMP.550 Health Policy;
HMP.551 Health Policy and Law;
HMP.553 Capstone Seminar in Health Policy;
HMP.572 Government Financing of Health Care; and
Six credits of advisor-approved electives.

M.P.H., Maternal and Child Health (M.P.H.-MCH)

Prerequisites
A bachelor's or first professional degree in most fields from an accredited college or university.

Requirements (48 total credits)
The M.P.H.-MCH requires the completion of the M.P.H. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (27 credits)
BSH.510 Health Promotion Program Planning;
BSH.540 Community Diagnosis;
BSH.600 Health Promotion Program Evaluation;
DIET-## Public Health Aspects of Maternal and Child Nutrition;
EPI.522 Maternal and Child Health Epidemiology *or* EPI.528 Perinatal Epidemiology;
MCH.500 Maternal and Child Health I: Foundations of Maternal Child Health;
MCH.501 Maternal and Child Health II: Programs, Policy and Advocacy;
MCH.625 Capstone in Maternal and Child Health; and
PUBH.562 Politics and Public Health Advocacy;

M.P.H., Maternal and Child Health & Epidemiology (M.P.H., Joint - MCH/EPI)

Prerequisites
A bachelor's or first professional degree in most fields from an accredited college or university.

Requirements (54 total credits)
The M.P.H.-MCH requires the completion of the M.P.H. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (33 credits)

BST.503 Statistical Programming and Study Planning: SAS;
BST.510 Introduction to General Linear Modeling;
DIET.## Public Health Aspects of Maternal and Child Nutrition;
EPI.502 Epidemiology Methods II;
EPI.522 Maternal and Child Health Epidemiology *or* EPI.528 Perinatal Epidemiology;
EPI.625 Capstone in Epidemiology;
MCH.500 Maternal and Child Health I: Foundations of Maternal Child Health;
MCH.501 Maternal and Child Health II: Programs, Policy and Advocacy;
PUBH.562 Politics and Public Health Advocacy; and
Six credits of advisor-approved electives.

M.P.H., Public Health Practice (M.P.H.-PRFP)

Prerequisites
A bachelor's or master's degree in a health or related field and substantial and relevant experience equivalent to three years in public health or health care.

Requirements (42 total credits)
The M.P.H.-PRFP requires the completion of the M.P.H. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (21 credits)
BSDP.570 Public Health and Disasters; HMP 500 Health Care Organization;
HMP.550 Health Policy;
PUBH.562 Politics and Public Health Advocacy;
PUBH.625 Capstone in Public Health Practice; and
Six credits of advisor-approved electives.

Dual M.P.H., Health Management and Policy & Juris Doctor (M.P.H.-HMP/J.D.)

The M.P.H.-HMP/J.D. dual degree program is offered in collaboration with the School of Law, which is accredited by the American Bar Association. This integrated program requires completion of professional law school requirements as well as the fulfillment of a complete M.P.H.-HMP degree (51 credits), which includes nine credits of coursework from the School of Law J.D. degree requirements.

Dual Degree Prerequisites
Students must meet the admission requirements and be admitted into both degree programs according to the processes of each of the participating academic units in order to pursue a dual degree program. Individuals may apply to the M.P.H.-HMP degree program concurrently with application to the School of Law or following admission to the School of Law; however, admission to the dual degree program is contingent upon admission to both the M.P.H.-HMP and the J.D. degree programs.

MHP-HMP Prerequisite
A bachelor's degree or the equivalent from an accredited college or university that includes completion of at least one college-level course in Microeconomics with a grade of B or higher.

MHP-HMP Requirements (51 total credits)
The M.P.H.-HMP requires the completion of the M.P.H. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (30 credits)
HMP.500 Health Care Organization;
HMP.520 Health Economics;
HMP.521 Economic Evaluation;
HMP.550 Health Policy;
HMP.553 Capstone Seminar in Health Policy;
HMP.572 Government Financing of Health and Health Care;
LAW.757 Health Care Law substitutes for HMP.551 Health Policy and Law; and
Nine credits of advisor-approved coursework from the School of Law J.D. degree requirements.

Dual M.P.H., Public Health Practice & Doctor of Medicine (M.P.H.-PRFP/M.D.)

The M.P.H.-PRFP/M.D. dual degree program is conducted under the joint auspices of the College for Public Health and Social Justice and the School of Medicine, which is accredited by the Liaison Committee for Medical Education (LCME). The M.P.H. is offered as an accelerated program that can be completed in three consecutive semesters (summer, fall, spring) devoted entirely to M.P.H. coursework. The program requires completion of professional medical-school requirements as well as the fulfillment of a complete M.P.H.-PRFP degree (42 credits), which may include up to nine credits of coursework from the School of Medicine M.D. degree requirements.

Dual Degree Prerequisites
Students must meet the admission requirements and be admitted into both degree programs according to the processes of each of the participating academic units in order to pursue a dual degree program. Individuals may apply to the M.P.H. degree program concurrently with application to medical school or following admission to the School of Medicine; however, admission to the dual degree program is contingent upon admission to both the M.P.H. and the M.D. degree programs.

M.P.H. Prerequisites
A bachelor's degree or equivalent of a professional degree from an accredited college or university.

M.P.H. Requirements (42 total credits)
The M.P.H.-PRFP requires the completion of the M.P.H. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (21 credits)
BSDP.570 Public Health and Disasters;
HMP.500 Health Care Organization;
HMP.550 Health Policy;
PUBH.562 Politics and Public Health Advocacy;
PUBH.625 Capstone in Public Health Practice; and
Six credits of advisor-approved electives.

Dual M.P.H., Public Health Practice & M.S. in Nutrition and Dietetics (M.P.H.-PRFP/M.S.)

The M.P.H./M.S. dual degree program is offered in collaboration with the Doisy College of Health Sciences Department of Nutrition and Dietetics. This integrated program requires completion of M.S. degree requirements as well as the fulfillment of a complete M.P.H.-PRFP degree (42 credits), which includes nine credits of coursework from the Doisy College of Health Sciences M.S. degree.

Dual Degree Prerequisites
Students must meet the admission requirements and be admitted into both degree programs according to the processes of each of the participating academic units in order to pursue a dual degree program. Individuals may apply to the M.P.H. degree program concurrently with application to or following their admission to the Doisy College of Health Sciences; however, admission to the dual degree program is contingent upon admission to both the M.P.H. and the M.S. degree programs.

M.P.H. Prerequisites
A bachelor's degree or equivalent of a professional degree from an accredited college or university.

M.P.H. Requirements (42 total credits)
The M.P.H. requires the completion of the M.P.H. core curriculum as revised and the concentration curriculum as follows:

Exceptions to the M.P.H. Core Curriculum
DIET-545 Patient/Client Nutrition Management Practicum (3 credits) substitutes for PUBH.594 Practice Experience in Public Health (zero credits) and increases the M.P.H. core curriculum credits to 24.

Concentration Curriculum (18 credits)
DIET.530 Community Nutrition;
HMP.538 Management of Human Resources in Health Care;
PUBH.562 Politics and Public Health Advocacy;
PUBH.625 Capstone in Public Health Practice; and
Six credits of advisor-approved electives.

Dual M.P.H., Public Health Practice & Master of Social Work (M.P.H.-PRFP/M.S.W.)

Please refer to the dual M.S.W./M.P.H. entry under the C.P.H.S.J. School of Social Work section.

Graduate Certificate in Biosecurity and Disaster Preparedness

Prerequisites
A bachelor's degree in any discipline. Experience in health-related fields is preferred, but is not required. Certificate may be completed concurrently with any M.P.H. degree other than the M.P.H.-BSDP (or a joint degree that includes BSDP). Certificate coursework can be applied towards an M.S. in BSDP if students matriculate into the M.S. program within 2 years of completing the Certificate and assuming that the Certificate courses were not part of a prior degree (such as an M.P.H.).

Curriculum (15 credits)
BSDP.566 Fundamentals of Disaster Planning;
BSDP.570 Public Health and Disasters;
BSDP.572 Communicable Diseases and Infection Control;
BSDP.573 Disaster Planning for Infectious Disease Disasters; and
BSDP.582 Disaster Management and Risk Analysis.

Master of Health Administration

The M.H.A. degree, which is accredited by the Commission on Accreditation Healthcare Management Education (CAHME), has as its foundation the areas of knowledge basic to health management and policy. The M.H.A. is offered as a resident program and, in order to meet the needs of working professionals, as an executive program (EM.H.A.) that blends distance learning with monthly face-to-face classes. For students wishing to specialize their training, the resident M.H.A. allows students to use electives to focus on one of two concentration areas: Finance or Operations.

Resident M.H.A. Prerequisites
A bachelor's degree or the equivalent from an accredited college or university that includes completion of at least one college-level course in Microeconomics with a grade of B or higher.

Resident M.H.A. Requirements
The resident M.H.A. degree requires the completion of the following curriculum as revised if a concentration is desired:

Resident M.H.A. Curriculum (60 credits)
HMP.500 Health Care Organization;
HMP.503 Introduction to Health Care Accounting;
HMP.511 Health Operations Management;
HMP.513 Health Information Systems;
HMP.519 Analytical Methods for Health Management;
HMP.520 Health Economics;
HMP.530 Management of Health Care Organizations;
HMP.534 Health Care Marketing;
HMP.538 Management of Human Resources in Health Care;
HMP.539 Ethical Leadership in Health Management and Policy;
HMP.540 Legal Aspects of Health Services Management;
HMP.550 Health Policy;
HMP.570 Health Care Financial Management;
HMP.571 Financial Aspects of Health Care;
HMP.580 Strategic Management in Health Care Organizations;
HMP.591 Health Management and Policy Rounds;
HMP.594 Internship;
HMP.595 Special Study for Examinations;
PUBH.501 Mission and Practice of Global Public Health; and

* Twelve credits of advisor-approved electives.
* Nine credits may be used to satisfy the optional concentration requirements.

Finance Concentration (9 credits)

HMP-XXX Advanced Healthcare Finance

Three accounting credits from the following courses:

ACCT.614 Seminar in Accounting and Social Responsibilities
ACCT.593 Special Topics: Managing Enterprise Risk
ACCT.603 Contemporary Financial Reporting
ACCT.619 Financial Statement Analysis
ACCT.621 Issues in Strategic Cost Management

Three finance credits from the following courses:

FIN.615 Financial Theory and Application
FIN.635 Advanced Corporate Finance

Non-course requirements:
Membership in Healthcare Financial Membership Association (HFMA)
Concentration-specific comprehensive exam (HMP-595 does not count towards this requirement)
Publishable paper *or* culminating project

Operations Concentration (9 credits)

HMP.510 Quality Improvement in Health Care Management

Six credits from the following courses:

HMP.516 Health Care Supply Management
HMP.581 Six Sigma Green Belt
HMP.584 Applied Management Projects II: Execution and Closure

Non-course requirements:

Concentration-specific comprehensive exam (HMP-595 does not count towards this requirement)

Publishable paper *or* culminating project

Executive Master of Health Administration

Executive M.H.A. (E.M.H.A.) Prerequisites
A bachelor's degree or the equivalent from an accredited college or university. The E.M.H.A. is limited to established professionals looking to advance their careers.

Executive M.H.A. (E.M.H.A.) Requirements (60 total credits)

The E.M.H.A. requires the completion of the following curriculum:

HMP.500 Health Care Organization;
HMP.503 Introduction to Health Care Accounting;
HMP.504 Fundamentals of Economics and Finance;
HMP.511 Health Operations Management;
HMP.513 Health Information Systems;
HMP.519 Analytical Methods for Health Management;
HMP.520 Health Economics;
HMP.530 Management of Health Care Organizations;
HMP.534 Health Care Marketing;
HMP.538 Management of Human Resources in Health Care;
HMP.539 Ethical Leadership in Health Management and Policy;
HMP.540 Legal Aspects of Health Services Management;
HMP.550 Health Policy;
HMP.570 Health Care Financial Management;
HMP.580 Strategic Management in Health Care Organizations;
HMP.583 Applied Management Projects I: Definition and Planning;
HMP.584 Applied Management Projects II; Execution and Closure;
PUBH.501 Mission and Practice of Global Public Health; and
Six credits of advisor-approved electives.

Dual M.H.A. & Juris Doctor (M.H.A./J.D.)

The M.H.A./J.D. dual degree program is offered in collaboration with the School of Law, which is accredited by the American Bar Association. This integrated program requires completion of professional law school requirements as well as the fulfillment of a complete resident M.H.A. degree (60 credits), which includes fifteen credits of coursework from the School of Law J.D. degree requirements. Dual degree students may elect to pursue a concentration in the resident M.H.A. degree program; however, the pursuit of a concentration may increase the time to degree and/or increase the total number of credits required.

Dual Degree Prerequisites
Students must meet the admission requirements and be admitted into both degree programs according to the processes of each of the participating academic units in order to pursue a dual degree program. Individuals may apply to the M.H.A. degree program concurrently with application to or following admission to the School of Law; however, admission to the dual degree program is contingent upon admission to both the M.H.A. and the J.D. degree programs.

Resident M.H.A. Prerequisites
A bachelor's degree or the equivalent from an accredited college or university that includes completion of at least one college-level course in Microeconomics with a grade of B or higher.

Resident M.H.A. Requirements (60 total credits)
The M.H.A. requires the completion of the resident M.H.A. curriculum as revised here:

Exceptions to Resident M.H.A. Curriculum
Fifteen credits of advisor-approved coursework from the School of Law J.D. degree requirements substitute for HMP.540 Legal Aspects of Health Services Management and twelve credits of advisor-approved electives.

Dual M.H.A. & Master of Business Administration (M.H.A./M.B.A.)

The M.H.A./M.B.A. dual degree program is offered in collaboration with the John Cook School of Business, which is accredited by the Association to Advance Collegiate Schools of Business (AACSB) International. This integrated program requires completion of professional business school requirements as well as the fulfillment of a complete resident M.H.A. degree (60 credits), which includes fifteen credits of coursework from the John Cook School of Business M.B.A. degree requirements. Dual degree students may elect to pursue a concentration in the resident M.H.A. degree program; however, the pursuit of a concentration may increase the time to degree and/or increase the total number of credits required.

Dual Degree Prerequisites
Students must meet the admission requirements and be admitted into both degree programs according to the processes of each of the participating academic units in order to pursue a dual degree program. Application to the individual programs should be made simultaneously; however, admission to the dual degree program is contingent upon admission to both the M.H.A. and the M.B.A. degree programs.

Resident M.H.A. Prerequisites
A bachelor's degree or the equivalent from an accredited college or university.

Resident M.H.A. Requirements

The resident M.H.A. degree requires the completion of the resident curriculum as revised here:

Exceptions to Resident M.H.A. Curriculum
MBA.631 Legal Aspects of Business, MBA.632 Financial Accounting and MBA.638 Managerial Accounting substitute for HMP.503 Introduction to Health Care Accounting;

MBA.642 Data and Decisions substitutes for HMP.519 Analytical Methods for Health Management; and

MBA.643 The Organization: Governance, Compliance and Strategy, MBA.653 Integrated Consulting Module and a three credit MBA elective substitute for nine credits of advisor-approved electives; and

Master of Science in Biosecurity and Disaster Preparedness (M.S.-BSDP)

The M.S.-BSDP program is offered in a distance-learning format.

Prerequisites
A bachelor's degree or the equivalent that includes at least 12 college-level credits in the biological, chemical or physical sciences in total, and three or more credits in mathematics such as college algebra, statistics or first-semester calculus; however, applicants will be considered on an individual basis in the absence of these prerequisites. Professional experience in a health-related field, law enforcement or emergency preparedness is recommended but not required. Strong writing and critical thinking skills are essential for success, especially given the distance-learning format of the program.

Requirements (42-45 total credits)
The M.S.-BSDP requires the completion of the M.S.-BSDP core curriculum and one concentration curriculum as follows:

Core Curriculum (24 credits)

BSDP.567 Introduction to Biostatistics and Decision Analysis;
BSDP.570 Public Health and Disasters;
BSDP.575 Epidemiological Methods and Infectious Disease Surveillance;
BSDP.578 Behavioral and Cultural Implications of Disasters;
BSDP.582 Disaster Management and Risk Analysis;
BSDP.583 Legal and Ethical Implications of Disasters;
BSDP.587 Facing the Challenge of International Bioterrorism; and
BSDP.625 Capstone in Biosecurity and Disaster Preparedness

General Concentration Curriculum (18 credits)

BSDP.566 Fundamentals of Disaster Planning;
BSDP.571 Terrorist Organizations and Their Motivations;
BSDP.572 Communicable Diseases and Infection Control;
BSDP.573 Disaster Planning for Infectious Disease Disasters;
BSDP.576 Disaster Communications and Media Relations; and
Three credits of advisor-approved electives

Infection Control Concentration Curriculum (21 credits)

BSDP.566 Fundamentals of Disaster Planning;
BSDP.572 Communicable Diseases and Infection Control;
BSDP.573 Disaster Planning for Infectious Disease Disasters;
BSDP.585 Public Health Ecology;
BSDP.586 Preparing for Disasters: Resiliency and Stress Inoculation;
BSDP.588 Emerging Infections: Epidemiology and Public Health Importance; and
BSDP.589 Business Continuity and Pandemic Planning

Medical and Public Health Intelligence Concentration Curriculum (21 credits)

BSDP.518 Writing for Intelligence
BSDP.564 Medical and Public Health Intelligence;
BSDP.571 Terrorist Organizations and Their Motivations;
BSDP.585 Public Health Ecology;
BSDP.588 Emerging Infections: Epidemiology and Public Health Importance; and
Six transfer credits from coursework at the Mercyhurst University, Erie, PA, Master of Science in Applied Intelligence program: Intelligence Theory Application (INTL510) and Advanced Analytical Techniques (INTL520).

Master of Science in Public Health, Behavioral Science and Health Education (M.S.P.H.-BSHE)

Prerequisites

A doctoral degree, e.g., M.D., Ph.D., in the field of health or a health-related social science. In the case of a medical degree, full eligibility for medical licensure in the United States is required.

Requirements (36 credits)

BSH.500 Behavioral Science and Public Health;
BSH.600 Health Promotion Program Evaluation;
BSH.625 Capstone in Behavioral Science and Health Education
BST.500 Principles of Biostatistics;
BST.510 Introduction to General Linear Modeling;
BST.540 Applied Data Management;
EPI.500 Principles of Epidemiology;
PUBH.501 Mission and Practice of Global Public Health;
PUBH.502 Ethical Issues in Public Health;
PUBH.596 Research Project; and
Nine credits of advisor-approved electives.

M.S.P.H., Epidemiology (M.S.P.H.-EPI)

Prerequisites

A doctoral degree, e.g., M.D., Ph.D., in the field of health or a health-related social science. In the case of a medical degree, full eligibility for medical licensure in the United States is required.

Requirements (36 credits)

BST.500 Principles of Biostatistics;
BST.503 Statistical Program and Study Planning: SAS;
BST.510 Introduction to General Linear Modeling;
BST.520 Survival Data Analysis;
BST.521 Categorical Data Analysis;
EPI.500 Principles of Epidemiology;
EPI.502 Epidemiology Methods II;
EPI.625 Capstone in Epidemiology;
PUBH.501 Mission and Practice of Global Public Health;
PUBH.596 Research Project; and
Nine credits of advisor-approved electives.

Dual M.S.P.H.-BSHE & Ph.D. in Clinical Psychology (M.S.P.H.-BSHE/Ph.D.)

The M.S.P.H./Ph.D. dual degree program is offered in collaboration with the College of Arts and Sciences Clinical Psychology Doctoral Program whose Ph.D. program has been accredited by The American Psychological Association since 1965. This integrated program requires completion of Ph.D. requirements as well as the fulfillment of a complete M.S.P.H.-BSHE degree (36 credits), which includes 12 credits of coursework from the College of Arts and Sciences Clinical Psychology Ph.D. degree requirements.

Dual Degree Prerequisites
Students must meet the admission requirements and be admitted into both degree programs according to the processes of each of the participating academic units in order to pursue a dual degree program. Applicants are required to be initially accepted to the Clinical Psychology program. Students must then apply for and fulfill all admission requirements for the M.S.P.H.-BSHE degree program in order to gain admission to the dual degree program.

M.S.P.H.-BSHE Prerequisites when taken as part of the dual degree
A bachelor's degree or equivalent from an accredited college or university.

M.S.P.H.-BSHE Requirements (36 total credits)
The M.S.P.H.-BSHE requires the completion of the M.S.P.H.-BSHE curriculum as revised here:

Exceptions to the M.S.P.H.-BSHE Curriculum
PSY.508 Advanced Quantitative Research Methods substitutes for 3 credits of advisor-approved electives;
PSY.579 Applied Univariate Statistics in Behavioral Science substitutes for BST.500 Principles of Biostatistics;
PSY.650 Applied Multivariable and Multivariate Statistics in Behavioral Science substitutes for BST.510 Introduction to General Linear Modeling;
PSY.680 Ethics and Professional Issues substitutes for PUBH.502 Ethical Issues in Public Health; and
PSY.699 Dissertation Research substitutes for PUBH.596 Research Project but no credits from PSY.699 are used towards the minimum total credits required for the M.S.P.H.-BSHE degree.

Doctor of Philosophy in Public Health Studies

Mario Schootman, Ph.D.

Steven Rigdon, Ph.D.
Doctoral Program Co-Directors

The doctoral program in public health studies at Saint Louis University College for Public Health and Social Justice allows students to choose from several different public health concentrations: behavioral science and health education; biosecurity and disaster preparedness; biostatistics: environmental and occupational health; epidemiology; health management and policy, and health services research.

The specific knowledge and skills provided within the doctoral program are based on a set of core and concentration-specific competencies. These competencies reflect the expectations of accrediting bodies as well as the faculty. There are three components to the doctoral studies curriculum.

The first is the core doctoral curriculum, shared across all concentrations and required of all students, comprised of a total of 12 credits. These are divided between four shared courses:

PHS.601 Design and Analysis in Public Health;
PHS.605 Science, Theory and Public Health;
PHS.606 Applied Research Skills; and
BST.510 Introduction to General Linear Modeling.

In addition, there is a required professional development course that provides students with the opportunity to build their unique professional skills outside of formal coursework or research with their mentor, e.g., obtaining a teaching certificate or learning a new methodology.

The second is the concentration curriculum comprised of courses totaling 48 credits. Within the concentration, some of these credits may be for specific required courses and some may be for courses that are tailored for students in order to provide the knowledge and skills needed to achieve their research and professional goals. The Doctoral Program Committee will be consulted on curricula decisions for their careers, and will provide guidance and direction to the Director(s).

The third component consists of the dissertation, including 12 dissertation credits.

SCHOOL OF SOCIAL WORK

Donald M. Linhorst, Ph.D.., M.S.W., ACSW
Director, School of Social Work

The School of Social Work at Saint Louis University began in 1930 and has a long-standing reputation of preparing professionals who excel in practice and have strong social justice commitments. The School offers three post-baccalaureate degrees: the Master of Social Work (M.S.W.), the Master of Science in Applied Behavior Analysis (M.S.ABA) and the Master of Science in Criminology and Professional Practice (M.S.CPP) degree.

Master of Social Work (M.S.W.)

Stephen McMillin, Ph.D.
Director of the M.S.W. Program

The M.S.W. degree prepares social work professionals for work with vulnerable populations facing health, social, and economic challenges. Social workers are educationally prepared to provide services including therapy, policy advocacy, case management, group work, crisis intervention, children and family practice, and leadership for nonprofit organizations. M.S.W.- level social workers work in a wide variety of human service organizations including family and community centers, mental health and treatment centers, hospitals, schools, nonprofit agencies, residential children's or adult centers, justice centers, and many more organizations. The M.S.W. Program has been accredited continuously by the Council on Social Work Education (CSWE).

The M.S.W. curriculum includes generalist foundation courses, advanced practice courses in an area of concentration, and field practicum. The generalist foundation courses provide the basic social work theory and methods for working with individuals, families, and groups, organizations, and communities. Students then select an advanced practice area of concentration and proceed with taking these courses. The School of Social Work offers three concentrations: Applied Behavior Analysis, Clinical, and Community and Organization. During the coursework, students will also be mentored by a M.S.W. field instructor while working in a social work capacity in the community. The M.S.W. degree is 57 credits, with full-time and part-time options available. Students with a Bachelor of Social Work degree from a CSWE accredited program many earn up to 18 credits of advanced standing toward the M.S.W. degree.

Prerequisites
A bachelor's degree from an accredited college or university with at least 24 credits in liberal arts and the social sciences. The Graduate Record Exam (GRE) is not required.

Requirements
The M.S.W. requires the completion of the M.S.W. core curriculum and the concentration curriculum as follows.

M.S.W. Core Curriculum (30 credits)

Foundation (12 credits)
SWRK.702 Social Policy
SWRK.725 Human Behavior and the Social Environment
SWRK.750 Social Work Practice with Individuals, Families, and Groups
SWRK.751 Social Work Practice with Communities and Organizations

Research (6 credits)
SWRK.787 Research Methods for Social Work Practice I
SWRK.788 Research Methods for Social Work Practice II

Hallmark (9 credits)
PUBH.501 Mission and Practice of Global Public Health
SWRK.700 Values and Ethics in Social Work Practice
SWRK.707 Policy Practice for Social Justice

Foundation Practica (3 credits)
SWRK.819 Foundation Integrative Seminar (1 credit)
SWRK.841 Foundation Practicum I (2 credits)

Applied Behavior Analysis Concentration

This concentration focuses on evidenced-based methods to assist children, adults, and organizations in changing behavior. Curriculum prepares students to be eligible to become a Board Certified Behavior Analyst.

Requirements (57 total credits)
The completion of the M.S.W. core curriculum as revised and the concentration curriculum as follows:

Exceptions to Core Curriculum
SWRK-749 Behavior Change and Ethics in Applied Behavior Analysis substitutes for SWRK.700; SWRK.788 Research Methods for Social Work Practice II is waived, which reduces the M.S.W. core to 27 credits.

Concentration Curriculum (30 credits):
SWRK.746 Principles and Concepts in Behavior Analysis
SWRK.747 Assessment and Selecting Interventions
SWRK.748 Behavior Change and Processes
SWRK.774 Measurement and Experimental Design
SWRK.792 Special Topics in ABA
SWRK.820 Concentration Integrative Seminar (1 credit)
SWRK.822 Concentration Practicum II (2 credits)
SWRK.823 Concentration Practicum III
SWRK.824 Concentration Practicum IV
SWRK.830 ABA Integrative Seminar (0 credits)
SWRK.840 ABA Integrative Seminar (0 credits)
Six credits of advisor-approved electives.

Clinical Concentration

This concentration focuses on assessment, intervention, and outcomes in clinical work with individuals, families, groups, or larger systems. Courses focus on working with diverse families and family systems across a developmental life span using core clinical approaches to engagement, assessment, intervention, and evaluation of outcomes in a variety of clinical practice settings.

Requirements (57 total credits)
The completion of the M.S.W. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (27 credits):
SWRK.731 Fall Inter-Professional Team Seminar (0 credit)
SWRK.732 Spring Inter-Professional Team Seminar (0 credit)
SWRK.733 Advanced Clinical Social Work Practice
SWRK.734 Human Behavior and the Social Environment Part II
SWRK.820 Concentration Integrative Seminar (1 credit)
SWRK.842 Clinical Practicum II (2 credits)
SWRK.843 Clinical Practicum III
15 credits of advisor-approved electives.

Community and Organization Concentration

The concentration courses focus on leadership, advocacy, and administration roles in social work. Students develop knowledge and skills in policy advocacy, nonprofit administration, or community organization and development.

Requirements (57 total credits)
The completion of the M.S.W. core curriculum and the concentration curriculum as follows:

Concentration Curriculum (27 credits):

SWRK.721 Community Theory and Practice
SWRK.785 Organizational Planning and Programming
SWRK.820 Concentration Integrative Seminar (1 credit)
SWRK.832 Concentration Practicum II (2 credits)
SWRK.833 Concentration Practicum III
15 credits of advisor-approved electives.

Specializations

M.S.W. students have the option to direct elective courses to a specialization. While not required, they provide students with additional, focused expertise. Options exist in the following areas: Specializations in Therapy with Individuals and Families, Community Mental Health Practice, Gerontology, School Social Work, Practice with Veterans and Military Families, Trauma-Informed Care, or Nonprofit Administration.

Dual Degree Programs with the M.S.W.

The School of Social Work has partnerships with other Saint Louis University departments and two other educational institutions to offer dual degrees with the M.S.W.. Students must apply separately for admission to both academic units. These dual degrees are designed to blend social work with another discipline to enable graduates to have additional preparation and expertise for certain career fields. These dual degrees have the advantage of fewer total credits than if each degree were taken separately and less expense as both degrees accept courses from the other to count for their degree as well. All programs except the M.S.W./M.P.A. require students pursue the clinical concentration; for the M.S.W./M.P.A., students pursue the community and organization concentration. The School of Social Work has seven dual degrees, all with the M.S.W. degree:

M.S.W./Juris Doctor (J.D.)

M.S.W./Master of Public Health (M.P.H.)

M.S.W./Master of Public Administration (M.P.A.)

M.S.W./Master of Arts in Pastoral Studies with Aquinas Institute (M.A.P.S.)

M.S.W./Master of Arts in Deaconess Studies with Concordia Seminary (M.Deac.)

M.S.W./Master of Arts in Theology with Concordia Seminary

M.S.W./Master of Divinity with Concordia Seminary (M.Div.)

Dual M.S.W., Clinical & Juris Doctor (M.S.W./J.D.)

The Master of Social Work, Clinical, and the Juris Doctor in the Saint Louis University School of Law remain separate degrees. For students who want to seek both degrees, 9 credits of each degree plan are accepted by each program as electives. In pursuit of these degrees, students are required to be admitted by both programs and they begin their first year as a full time law student.

Dual Degree Prerequisites
Students must meet the admission requirements and be admitted into both degree programs according to the processes of each of the participating academic units in order to pursue a dual degree program. Individuals may apply to the M.S.W. degree program concurrently with application to law school or following admission to the School of Law; however, admission to the dual degree program is contingent upon admission to both the M.S.W. and the J.D. degree programs.

M.S.W. Prerequisites
A bachelor's degree from an accredited college or university with at least 24 credits in liberal arts and the social sciences.

M.S.W. Requirements (57 total credits)
The M.S.W. requires the completion of the M.S.W. core curriculum and the concentration curriculum as follows,

Concentration Curriculum (27 credits)

SWRK.731 Fall Inter-Professional Team Seminar (0 credit)
SWRK.732 Spring Inter-Professional Team Seminar (0 credit)
SWRK.733 Advanced Clinical Social Work Practice
SWRK.734 Human Behavior and the Social Environment Part II
SWRK.820 Concentration Integrative Seminar (1 credit)
SWRK.842 Clinical Practicum II (2 credits)
SWRK.843 Clinical Practicum III
Fifteen credits of advisor approved social work electives

Exceptions to the Concentration Curriculum
In place of 9 credits of social work electives, dual degree J.D./M.S.W. students take 9 credits of School of Law J.D. courses.

Students will have Faculty Advisors in both schools to assist them in course planning to meet each school's degree requirements. In the School of Social Work, in addition to a Faculty Advisor, students have a field education Practicum Liaison to assist them in field education planning.

B.S.S.W. students granted full advanced standing for the M.S.W. complete 27 credits of the 57 required with M.S.W. courses. The remaining nine credits of M.S.W. electives are fulfilled with law courses.

The School of Law allows nine credits of M.S.W. courses to fulfill elective requirements for the J.D.. Students will need to speak directly with the School of Law regarding curriculum requirements for the J.D. and which M.S.W. courses fulfill their J.D. requirements.

The M.S.W. degree requirements for J.D./M.S.W. begin in the second year of law school and are taken throughout the rest of the matriculation over the next 3 years.

Dual M.S.W., Clinical & M.P.H., Public Health Practice (M.S.W./M.P.H.)

The Master of Social Work, Clinical, and Master of Public Health, Public Health Practice, is a dual degree program in the College for Public Health and Social Justice, which is accredited by the Council on Education for Public Health. This integrated program requires completion of both the M.S.W. and M.P.H. degree requirements.

Dual Degree Prerequisites
Students must meet the admission requirements and be admitted into both degree programs according to the processes of each of the participating academic units in order to pursue a dual degree program. Individuals may apply to the M.P.H. degree program concurrently with application to the School of Social Work or following their admission to the School of Social Work; however, admission to the dual degree program is contingent upon admission to both the M.P.H. and the M.S.W. degree programs.

M.S.W. Prerequisites
A bachelor's degree from an accredited college or university with at least 24 credits in liberal arts and the social sciences.

M.S.W. Requirements (57 total credits)

The M.S.W. requires the completion of the M.S.W. core curriculum and the concentration curriculum as follows,

Concentration Curriculum (27 credits)
SWRK.731 Fall Inter-Professional Team Seminar (0 credit)
SWRK.732 Spring Inter-Professional Team Seminar (0 credit)
SWRK.733 Advanced Clinical Social Work Practice
SWRK.734 Human Behavior and the Social Environment Part II
SWRK.820 Concentration Integrative Seminar (1 credit)
SWRK.842 Clinical Practicum II (2 credits)
SWRK.843 Clinical Practicum III
Fifteen credits of advisor approved social work electives

Exceptions to the Concentration Curriculum
In place of 12 credits of social work electives, dual degree M.P.H./M.S.W. students take:

BSH.500 Behavioral Science and Public Health
BST.500 Principles of Biostatistics
EPI.500 Principles of Epidemiology
PUBH.501 Mission and Practice of Global Public Health

M.P.H. Prerequisites
A bachelor's degree or equivalent of a professional degree from an accredited college or university.

M.P.H. Requirements
The M.P.H. requires the completion of the M.P.H. core curriculum as revised and the concentration curriculum as follows:

Exceptions to the M.P.H. Core Curriculum
SWRK-820 Concentration Integrative Practice Seminar, SWRK-842 Clinical Practicum II and SWRK-843 Clinical Practicum III (6 total credits) substitute for PUBH.594 Practice Experience in Public Health (zero credits), which increases the M.P.H. core curriculum credits to 27.

Public Health Practice Concentration Curriculum (15 credits)
BSDP.570 Public Health and Disasters
HMP.500 Health Care Organization
HMP.550 Health Policy
PUBH.562 Politics and Public Health Advocacy
PUBH.625 Capstone in Public Health Practice

Dual M.S.W., Community and Organization & Master of Public Administration (M.S.W./M.P.A.)

The Master of Social Work, Community & Organization, and the Master of Public Administration is a dual degree program that prepares students for careers in the non-profit or governmental sector primarily. Students will focus on administrative and management skills, social and public policy analysis, and advocacy strategies to improve social welfare. Students entering must meet the admission requirements of both programs. The combination of the M.S.W. and M.P.A. degrees require a minimum total of 72 credits.

Dual Degree Prerequisites
Students must meet the admission requirements and be admitted into both degree programs according to the processes of each of the participating academic units in order to pursue a dual degree program. Individuals may apply to the M.S.W. degree program concurrently with the M.P.A. degree program.

M.S.W. Prerequisites
A bachelor's degree from an accredited college or university with at least 24 credits in liberal arts and the social sciences.

M.S.W. Requirements (57 credits)
The M.S.W. requires the completion of the M.S.W. core curriculum and the concentration curriculum as follows.

Community & Organization Concentration Curriculum (27 credits)
SWRK.721 Community Theory and Practice
SWRK.785 Organizational and Program Planning
SWRK.832 Concentration Practicum II (2 credits)
SWRK.820 Concentration Integrative Seminar (1 credit)
SWRK.833 Concentration Practicum III
Fifteen credits of advisor-approved social work electives.

Exceptions to the Concentration Curriculum
In place of up to 12 credits of social work electives, dual degree M.P.A./M.S.W. students may choose to take 12 credits of public administration electives.

Dual M.S.W., Clinical & Master of Arts in Pastoral Studies with Aquinas Institute of Theology (M.S.W./M.A.P.S.)

The School of Social Work and the Aquinas Institute of Theology at Saint Louis University offer a dual Master of Social Work, Clinical (M.S.W.) and Master of Arts in Pastoral Studies (M.A.P.S.) program. Through a dual track of coursework and fieldwork, this program is designed to:

- Prepare students for professional social work practice while providing a solid foundation in theology, ministry, and biblical studies.
- Enable students to integrate the psychosocial, economic, political, and spiritual dimensions of societal and health care problems.
- Inspire students to serve individuals, families, and communities through social action for the common good.

The program provides the framework, skills, and resources for a spiritually sensitive social work practice while deepening professional commitment to social justice based upon the Gospels. The program also creates an opportunity for church ministers to obtain clinical professional licensure and develop micro and macro skills for community service. The combination of the M.S.W. degree and the M.A.P.S. degree requires a minimum total of 78 credits.

Dual Degree Prerequisites
Students must meet the admission requirements and be admitted into both degree programs according to the processes of each of the participating academic units in order to pursue a dual degree program. Individuals may apply to the M.S.W. degree program concurrently with the M.A.P.S. degree program at Aquinas Institute.

M.S.W. Prerequisites
A bachelor's degree from an accredited college or university with at least 24 credits in liberal arts and the social sciences.

M.S.W. Requirements (57 credits)
The M.S.W. requires the completion of the M.S.W. required courses and the concentration curriculum as follows:

Clinical Concentration Curriculum (27 credits)
SWRK.731 Fall Inter-Professional Team Seminar (0 credit)
SWRK.732 Spring Inter-Professional Team Seminar (0 credit)
SWRK.733 Advanced Clinical Social Work Practice
SWRK.734 Human Behavior and the Social Environment Part II
SWRK.820 Concentration Integrative Seminar (1 credit)
SWRK.842 Clinical Practicum II (2 credits)
SWRK.843 Clinical Practicum III
Fifteen credits of advisor-approved social work electives.

Exceptions to the Concentration Curriculum
In place of 12 credits of social work electives, dual degree M.A.P.S./M.S.W. students take 12 credits of M.A.P.S. courses.

Dual M.S.W., Clinical & Master of Arts in Deaconess Studies with Concordia Seminary (M.S.W./M.Deac.)

The Master of Social Work, Clinical, and Master of Arts in Deaconess Studies is a dual degree program with Concordia Seminary. With this dual degree, students are able to prepare to provide social work in Lutheran missions and social service agencies. Students gain knowledge and skills in blending Lutheran faith beliefs, spirituality, and religious service with the professional practice of social work.

Dual Degree Prerequisites
Students must meet the admission requirements and be admitted into both degree programs according to the processes of each of the participating academic units in order to pursue a dual degree program. Individuals may apply to the M.S.W. degree program concurrently with the M.Deac. degree program.

M.S.W. Prerequisites
A bachelor's degree from an accredited college or university with at least 24 credits in liberal arts and the social sciences.

M.S.W. Requirements (57 credits)
The M.S.W. requires the completion of the M.S.W. core curriculum and the concentration curriculum as follows.

Concentration Curriculum (27 credits)
SWRK.731 Fall Inter-Professional Team Seminar (0 credit)
SWRK.732 Spring Inter-Professional Team Seminar (0 credit)
SWRK.733 Advanced Clinical Social Work Practice
SWRK.734 Human Behavior and the Social Environment Part II
SWRK.820 Concentration Integrative Seminar (1 credit)
SWRK.842 Clinical Practicum II (2 credits)
SWRK.843 Clinical Practicum III
15 credits of advisor-approved social work electives.

Exceptions to the Concentration Curriculum
In place of 12 credits of social work electives, dual degree M.Deac./M.S.W. students take 12 credits of deaconess studies courses.

Dual M.S.W., Clinical & Master of Arts in Theology with Concordia Seminary (M.S.W./M.A.Th.)

The Master of Social Work, Clinical, and Master of Arts in Theology is a dual degree program with Concordia Seminary. With this dual degree, students are able to prepare to provide social work in Lutheran missions and social service agencies. Students gain knowledge and skills in blending Lutheran faith beliefs, spirituality, and religious service with the professional practice of social work.

Dual Degree Prerequisites
Students must meet the admission requirements and be admitted into both degree programs according to the processes of each of the participating academic units in order to pursue a dual degree program. Individuals may apply to the M.S.W. degree program concurrently with the M.A.Th. degree program.

M.S.W. Prerequisites
A bachelor's degree from an accredited college or university with at least 24 credits in liberal arts and the social sciences.

M.S.W. Requirements (57 credits)
The M.S.W. requires the completion of the M.S.W. core curriculum and the concentration curriculum as follows.

Clinical Concentration Curriculum (27 credits)
SWRK.731 Fall Inter-Professional Team Seminar (0 credit)
SWRK.732 Spring Inter-Professional Team Seminar (0 credit)
SWRK.733 Advanced Clinical Social Work Practice
SWRK.734 Human Behavior and the Social Environment Part II
SWRK.842 Clinical Practicum II (2 credits)
SWRK.820 Concentration Integrative Seminar (1 credit)
SWRK.843 Clinical Practicum III
Fifteen credits of advisor-approved social work electives.

Exceptions to the Concentration Curriculum
In place of 12 credits of social work electives, dual degree M.A.Th./M.S.W. students take 12 credits of theology courses.

Dual M.S.W., Clinical & Master of Divinity with Concordia Seminary (M.S.W./M.Div.)

The Master of Social Work, Clinical, and Master of Divinity is a dual degree program with Concordia Seminary. With this dual degree, students are able to prepare to provide social work in Lutheran missions and social service agencies. Students gain knowledge and skills in blending Lutheran faith beliefs, spirituality, and religious service with the professional practice of social work.

Dual Degree Prerequisites
Students must meet the admission requirements and be admitted into both degree programs according to the processes of each of the participating academic units in order to pursue a dual degree program. Individuals may apply to the M.S.W. degree program concurrently with the M.Div. degree program.

Dual Degree Prerequisites
Students must meet the admission requirements and be admitted into both degree programs according to the processes of each of the participating academic units in order to pursue a dual degree program. Individuals may apply to the M.S.W. degree program concurrently with the M.Div. degree program.

M.S.W. Prerequisites
A bachelor's degree from an accredited college or university with at least 24 credits in liberal arts and the social sciences.

M.S.W. Requirements (57 credits)
The M.S.W. requires the completion of the M.S.W. core curriculum and the concentration curriculum as follows.

Clinical Concentration Curriculum (27 credits)
SWRK.731 Fall Inter-Professional Team Seminar (0 credit)
SWRK.732 Spring Inter-Professional Team Seminar (0 credit)
SWRK.733 Advanced Clinical Social Work Practice
SWRK.734 Human Behavior and the Social Environment Part II
SWRK.842 Clinical Practicum II (2 credits)
SWRK.820 Concentration Integrative Seminar (1 credit)
SWRK.843 Clinical Practicum III
Fifteen credits of advisor-approved social work electives

Exceptions to the Concentration Curriculum
In place of 12 credits of social work electives, dual degree M.Div./M.S.W. students take 12 credits of M.Div. courses.

Master of Science in Applied Behavior Analysis (ABA)

Alyssa Wilson, Ph.D., BCBA-D
Director of ABA Programs

Applied Behavior Analysis is the scientific study of human behavior in relationship to the environment. The Master of Science in Applied Behavior Analysis (M.S.ABA) degree prepares students for professional practice using behavioral science to promote positive social change and learning in people with autism, intellectual disabilities, substance abuse problems, and other health and mental health conditions. Successful completion of the degree provides eligibility to complete the examination for national certification as a Board Certified Behavior Analyst (BCBA) and for licensure in Missouri and some other states.

The first six courses listed below must be taken in order of presentation throughout the year. That is, two courses in the fall, two courses in the spring, and two courses in the summer. Other requirements for the degree may be scheduled in collaboration between students and their advisor, with full-time and part-time options available. The M.S.ABA is a 39-credit degree.

Prerequisites
A bachelor's degree from an accredited college or university with some coursework in social sciences. The Graduate Record Exam (GRE) is not required.

Required Courses (39 credits)
ABA.746 Principles and Concepts in Behavior Analysis
ABA.774 Measurement and Experimental Design
ABA.747 Assessment and Selecting Interventions
ABA.748 Behavior Change and Processes
ABA.749 Behavior Change and Ethics
ABA.792 Special Topics I in ABA
ABA.826 Practicum I
ABA.820.48 Integrative Seminar
ABA.827 Practicum II
ABA.820.49 Integrative Seminar
ABA.828 Practicum III
ABA.820.50 Integrative Seminar
ABA.599 Thesis (6 credits)
ABA.595 Special Study for Exams
ABA.795 Special Topics II in ABA
PUBH 501 Mission and Practice of Global Public Health

Post-Master's Certificate in Applied Behavior Analysis

Students take seven regular classroom courses (21 credits), and may elect to engage in three practicum courses (9 credits). Successful completion of coursework and practicum experience provides eligibility to complete the examination for national certification as a Board Certified Behavior Analyst (BCBA) and for licensure in Missouri and some other states.

The first six courses listed below must be taken in order of presentation throughout the year. That is, two courses in the fall, two courses in the spring, and two courses in the summer. Special Topics II may be taken at any time at SLU. The practicum credit, if taken, may be scheduled in collaboration between students and their advisor, with full-time and part-time options available.

Prerequisites
A master's degree from an accredited college or university with a degree in behavior analysis, psychology or education. The Graduate Record Exam (GRE) is not required

Required Courses (21 credits)
ABA.746 Principles and Concepts in Behavior Analysis
ABA.774 Measurement and Experimental Design
ABA.747 Assessment and Selecting Interventions
ABA.748 Behavior Change and Processes
ABA.749 Behavior Change and Ethics
ABA.792 Special Topics I in ABA
ABA.795 Special Topics II in ABA

Optional Practicum Courses (9 credits)
ABA.826 Practicum I
ABA.820.48 Integrative Seminar
ABA.827 Practicum II
ABA.820.49 Integrative Seminar
ABA.828 Practicum III
ABA.820.50 Integrative Seminar

Master of Science in Criminology and Professional Practice (M.S.-CPP)

The Master of Science in Criminology and Professional Practice (M.S.-CPP) program allows students to select one of three concentrations offered: Administration of Justice, Treatment and Rehabilitation and Emergency Response. The program is offered in variable formats: most classes are offered on campus but one concentration is currently offered online.

Prerequisites
A bachelor's degree or the equivalent from an accredited college or university. A grade point average of 3.0 or above is preferred but not required. GRE scores are not required but may be submitted.

Requirements (33 credits)
The M.S.-CPP requires the completion of the M.S.-CPP core curriculum and one concentration curriculum as follows:

M.S.-CPP Core Curriculum (18 credits)
CCJ.500 Criminology and Professional Practice
CCJ.510 Ethics in the Administration of Justice
CCJ.520 Methodological and Statistical Literacy in CCJ
PUBH.501 Mission and Practice of Global Public Health

Six credits of advisor-approved electives, with at least 3 credits from the following courses:
CCJ.600 Issues in Law Enforcement
CCJ.610 Issues in Corrections
CCJ.620 Juvenile Justice Administration

Concentrations and Curricula (15 credits)

ADMINISTRATION OF JUSTICE

CCJ.640 Issues in Jurisprudence
HMP.538 Management of Human Resources in Health Care
SWRK.785 Organizational and Program Planning
SWRK.798 Introduction to Non-Profit Organization Management
SWRK.815 Introduction to Public Sector Budgeting

TREATMENT AND REHABILITATION

SWRK.734 Human Behavior and the Social Environment Pt. II
SWRK.742 Evidence-Based Practices in Community Mental Health
SWRK.744 Substance Abuse Interventions
SWRK.772 Cognitive Behavior Therapy for Social Work Practice
SWRK.778 Motivational Interviewing

EMERGENCY RESPONSE (ONLINE)

BSDP.566 Fundamentals of Disaster Planning
BSDP.570 Public Health and Disasters
BSDP.582 Disaster Management and Risk Analysis
Select two of the following:
BSDP.564 Medical and Public Health Intelligence
BSDP.571 Terrorist Organizations and Their Motivations
BSDP.572 Communicable Diseases and Infection Control
BSDP.576 Disaster Communication and Media Relations
BSDP.583 Legal and Ethical Implications of Disasters
BSDP.586 Preparing for Disasters: Resiliency and Stress Inoculation
BSDP.587 Facing the Challenge of International Bioterrorism

Doctor of Philosophy in Social Work (Ph.D.)

Michael G. Vaughn, Ph.D.
Doctoral Program Director

There are three components to the doctoral program in social work at Saint Louis University College for Public Health and Social Justice.

The **first is the core doctoral curriculum** required of all students, comprised of a total of 18 credits.

SWRK 600 Foundations of Social Work Theory Development
SWRK 601 Principles of Statistics and Data Analysis
SWRK 602 Research Design and Measurement
SWRK 603 Multivariate Data Analysis
SWRK 604 Research Area Synthesis
PUBH 501 Mission and Practice of Global Public Health

In addition, students are required to participate in teaching practicums that prepare students to teach their own course in either the B.S.S.W. or M.S.W. program or in the Applied Behavior Analysis and Criminology degree programs. Further, there are required professional development workshops that provide students with the opportunity to build their unique professional skills outside of formal coursework or research.

The **second is the elective curriculum** comprised of courses totaling 42 credits. Some of these credits may be for specific required methods courses and some may be for courses that are tailored for students in order to provide them with the knowledge and skills needed to achieve their research and professional goals. *Students can petition to have up to 24 credits of electives count toward the 72 credit total from an approved M.S.W. or closely related master's degree.*

The third component consists of the dissertation, including 12 dissertation credits.

The objective of the first component is to develop a strong foundation in the interrelated nature of theory, research, and analysis. An additional objective is to develop a dissertation topic. The objectives of the second component of the program are to build on the foundation established in the first component by developing knowledge and skills that are directly linked to the dissertation topic and specific to career goals. An additional objective is to add breadth and depth in a specialization area through the use of elective coursework. The objectives of the third component are to deepen and integrate the knowledge and skills obtained in the first and second components as demonstrated by tangible progress on the dissertation, passing of a written exam, and writing and orally defending a dissertation.

SCHOOL FOR PROFESSIONAL STUDIES

Beth Winfrey Freeburg, Ph.D.
Dean

John P. Buerck, Ph.D
Associate Deans of Academic Development

Matthew J. Grawitch, Ph.D.
Associate Deans of Academic Development

Steven Winton, Ph.D.
Director, Leadership and Organizational Development Program

Srikanth Mudigonda, Ph.D
Director, Applied Analytics Program

As a Jesuit institution, Saint Louis University has a longstanding, nearly 200-year-old tradition of serving students of all ages. Saint Louis University enhanced its focus on adult students in 1963, when it launched one of the first schools in the country dedicated to adult learners. Since then, the School for Professional Studies has evolved into one of the most innovative, adult-focused programs in the country.

SPS Mission
The School for Professional Studies offers globally accessible, academic, professional, and continuing education programs for adult learners and working students in Saint Louis University's Jesuit tradition of excellence. Our faculty and staff promote a student-centered, innovative, and enterprising environment built on a foundation of integrity, accountability, and collaboration.

Master of Arts in Leadership & Organizational Development

Available Online
The Leadership and Organizational Development (LOD) master's degree is a 36 credit program designed for working professionals wishing to pursue a professional master's degree while maintaining part- or full-time employment. With courses offered in online and blended formats in an accelerated 8-week term, this program makes advanced education more accessible for working professionals.

The program develops **12 competencies through project-based learning** in the areas of leadership and organizational development, with specific emphases at the personal, interpersonal/group and organizational levels.

At the **Personal level**, students within this management training program at Saint Louis University will be able to:

- Make sound, ethical decisions
- Effectively leverage their current leadership competencies and manage their future leadership development
- Apply innovation and creativity to leadership situations
- Engage in evidence-based decision making

At the **Interpersonal/Group level**, students will be able to:

- Provide coaching and mentoring to assist in employee development
- Effectively facilitate group and interpersonal interactions
- Create and sustain a culture that promotes collaborative learning and performance across a diverse work environment

At the **Organizational level**, students will be able to:

- Effectively engage in strategic visioning, with an emphasis on future-focused leadership
- Apply a systems thinking framework in work settings
- Implement projects in a way that integrates project management logistical needs with interpersonal leadership needs
- Lead change initiative efforts in an organization
- Apply the consultation skills necessary to develop high-impact, results-focused initiatives

Project-Based Indicators of Success
At the end of the LOD program, students will produce a variety of artifacts that document both their success and their commitment to future development and lifelong learning.

Assessment of Leadership Competencies. During the program, students gain knowledge, skills and abilities that make them effective leaders. To evaluate their educational experience, students reflect on their own personal and professional development in the 12 competency areas.

Leadership Development Plan. Students develop their own personal leadership development plan that includes a formal leadership philosophy, specific strengths and developmental opportunities identified by students, and clear action plans for future development.

Action Research Project. A capstone experience requires that students plan and execute an action research project within their organization. This allows students to demonstrate program competencies while completing a project that adds value to their organization.

With the Leadership & Organizational Development Master's Degree, you will develop a portable set of knowledge and skills that are not about how to perform your job, but how to be a leader as it applies to your professional and personal life.

Admissions Criteria
Minimal qualifications for obtained acceptance into the program are the following:

- Work Experience: Applicants must have at least 3 years of work experience
- Undergraduate grade point average: 3.0 or higher on a 4.0 scale - Students with a grade point average less than 3.00 will be considered for probationary admission. They must obtain a minimum grade of "B" in each of the first two classes to become a fully classified student. The grade point average requirement also applies to students bridging from the School for Professional Studies Organizational Studies Program.
- Course work in the following areas:
    - At least 1 undergraduate leadership or organizational theory course
    - At least 1 basic statistics or research methods course
    - At least 1 psychology course, General Psychology accepted
    - At least 1 business-related course
    - Students missing any of the Prerequisites will be permitted to fulfill those at SPS prior to acceptance into the LOD program
- It is expected that incoming students have a basic, working knowledge of a standard word processing program (e.g., Microsoft Word), a standard spreadsheet or database program (e.g., Microsoft Excel, Microsoft Access, SPSS) and a standard presentation program (e.g., Microsoft PowerPoint).
- At least 2 letters of recommendation from reputable sources (e.g., faculty, employer, co-workers).
- The Personal Potential Index (PPI) is highly recommended as part of your application. The PPI is free for those who have taken the GRE; however, for those applicants who have not taken the GRE there is a fee associated. The PPI requires that you provide e-mail contact information for up to five references (you can use the same ones who wrote your letters but you can also use employers and other individuals who can judge your personal attributes). The PPI can be found at http://www.ets.org/ppi. Please let us know if you have any questions.
- Transcripts from all undergraduate and post-baccalaureate work.
- A 3-5 page goal statement describing: (a) why a Master's degree in Leadership and Organizational Development is needed within the applicant's job or career area, (b) why the applicant feels the M.A. program will help meet that need, and (c) evidence to support student assertions, along with appropriate citations.
- All applicants will be required to submit a current resume or curriculum vitae with application materials.

Careers in Leadership & Organizational Development
Leadership is a competency that can make an impactful, positive contribution at all levels of any organization. The benefits to you, your organization, and your career increase significantly with a Master's degree from our Leadership & Organizational Development program when your work role involves any of the following requirements.

1) **Does your role involve managing the talent of an organization?**
   Most supervisory and management roles in an organization involve finding ways to identify talented workers and create an engaging work environment. In the Leadership & Organizational Development Program, you will learn how to better motivate and inspire others as a way to increase engagement and optimize results.

2) **Does your role involve human resource functions?**
Human resource roles involve working with employees across the organization, from sales and marketing to production and finance. These roles focus on improving the way employees interface with the organization. In many cases, human resource professionals also design and deliver training throughout the organization. In the Leadership & Organizational Development Program, you will take leadership and management courses at Saint Louis University, as well as learn how to create a work environment that supports employee development - one that optimizes both organizational effectiveness and employee well-being.
3) **Does your role involve developing a strategy and seeking commitment to that strategy?**
Key decision makers in organizations are required to think and act strategically. Strategic thinking and action requires attention to the long-term, or the big picture, so to speak. Unfortunately, most people are not naturally inclined to think and act strategically, and many key decision makers have never had the opportunity to develop their strategic competencies. In the Leadership & Organizational Development Program, you will be provided developmental opportunities to sharpen your strategic leadership skills, emphasizing such areas as visioning, empowerment, scenario planning and strategic planning.
4) **Does your role involve designing, overseeing or leading change initiatives in the organization?**
Many roles within an organization require involvement in change initiatives. Organizational development functions often have the primary responsibility for change management; however human resource professionals, managers, and executives often are required to develop, oversee, lead and obtain buy-in for new change initiatives. In the Leadership & Organizational Development Program you will learn the skills and competencies necessary to effectively lead change initiatives through leadership and management courses. Whether those changes are small (such as a departmental training program) or large (such as organizational re-structuring), the program will provide you with opportunities to improve the way you think about, plan and execute change in your organization.

Course Listing

All courses offered online
ORLD.500 Organizational Dynamics (3)
ORLD.501 Contemporary Organizational Leadership (3)
ORLD.502 Applied Research Methods (3)
ORLD.503 Applied Analytics (3)
ORLD.510 Professional Leadership Development (3)
ORLD.515 Talent Management and Development (3)
ORLD.525 Leading a Healthy Organization (3)
ORLD.535 Team Leadership (3)
ORLD.545 Leading Organizational Change (3)
ORLD.565 Future-Focused Leadership (3)
ORLD.575 Contemporary Issues in Leadership (3)
ORLD.590 Action Research I (3)
ORLD.595 Action Research II

Master of Science in Applied Analytics

Available Online

Our Applied Analytics degree combines the interaction of technology with the human and organizational structures to support the discovery, management, and dissemination of knowledge that results from analyzing and interpreting data drawn from different aspects of business operations.

The online Applied Analytics program at Saint Louis University provides education in 12 competencies through project-based learning, with an emphasis on personal, interpersonal/group, organizational management, business informatics and technological competencies.

At the **Personal** level, students will be able to:

- Make sound, ethical decisions; and
- Practice evidence-based decision making.

At the **Interpersonal/Group** level, students will be able to:

- Create and sustain a culture that promotes collaborative learning and performance across diverse work environments.

At the **Organizational and Management** level, students will be able to:

- Apply a systems-thinking framework in work settings; and
- Lead change initiative efforts in an organization.

In the **Technological** domain, students will be able to:

- Demonstrate knowledge and understanding of essential facts, concepts, principles, and theories relating to Analytics in different business and organizational domains;
- Examine and apply the principles of effective information organization and management of information to support discovery and dissemination of knowledge;
- Demonstrate an ability to effectively integrate the skills of inquiry, critical thinking, problem solving and logical assessment;
- Understand and explain the quantitative and qualitative dimensions of an organizational problem through applied research;
- Analyze and evaluate the ethical considerations that are associated with Analytics initiatives in organizations; and
- Develop the awareness to keep abreast of current trends and advances within the Analytics field.

Admissions Criteria

Student applications will be evaluated by the admission committee. Minimal qualifications for obtained acceptance into the program are the following:

- An undergraduate degree from an accredited institution.
- Work Experience: Applicant must be employed on at least a part-time basis (20 hours or more per week) and have at least 3 years of work experience
- Undergraduate grade point average: 3.0 or higher on a 4.0 scale - Students with a grade point average less than 3.00 will be considered for probationary admission. They must obtain a minimum grade of "B" in each of the first two classes to become a fully classified student. The grade point average requirement also applies to students bridging from the School for Professional Studies Computer Information Systems undergraduate degree program.
- Course work in the following areas:
    - At least 1 course in information systems, information technology or a programming language.
    - At least 1 basic statistics or research methods course.
- It is expected that incoming students have a basic, working knowledge of a standard word processing program (e.g., Microsoft Word), standard spreadsheet and database programs (e.g., Microsoft Excel, Microsoft Access), and a standard presentation program (e.g., Microsoft PowerPoint).
- At least 3 letters of recommendation from reputable sources (e.g., faculty, employer, co-workers). This requirement will be waived for students bridging from the SPS undergraduate Computer Information Systems Program.
- A 300-500 word personal statement describing the applicant’s interest in the program and how the applicant plans to use the degree, by specifically addressing the following points:(1) why a Master's degree in Applied Analytics is needed within the applicant's job or career area; (2) why the applicant feels that the M.S. program will help meet that need; (3) evidence to support student assertions, along with appropriate citations
- All applicants will be required to submit a current resume or curriculum vitae with application materials.

Careers in Applied Analytics

A Master's Degree in Applied Analytics prepares you to pursue careers in today's dynamic multi-disciplinary work place. Through our organizational development program, you will combine the use of technology with organizational leadership to support knowledge discovery and dissemination, assisting the decision maker across a variety of academic disciplines and professional fields and preparing you for jobs in:

Business & Industry
Private for Profit and Not-for-Profit
Government
Information Technology
Health Care
Life Sciences
Education
Security & Intelligence
Military

Career opportunities for graduates include:

- Information Officers
- Project Managers
- Clinical Informatics Analyst/Manager
- Data Analysis Manager
- Research Analyst/ Manager
- Compliance Manager
- Business Systems Analyst
- Information Security Analyst/Manager
- Assessment System Administrator

Course Listing

All courses offered online

IF.500 Foundations of Applied Analytics (3)
IF.505 Programming & Problem Solving (3)
IF.510 Information Retrieval (3)
IF.515 Evidence-Based Decision-Making (3)
IF.520 Information Visualization & Presentation (3)
IF.525 Project Management (3)
IF.575 Contemporary Issues in Analytics (3)
IF.590 Applied Informatics Project I (3)
IF.591 Applied Informatics Project II (3)
ORLD.500 Organizational Dynamics (3) or
ORLD.501 Contemporary Organizational Leadership (3)
ORLD.502 Organizational Informatics (3)
ORLD.503: Applied Analytics (3)

COLLEGE OF EDUCATION AND PUBLIC SERVICE

Ann M. Rule, Ph.D.
Interim Dean

Established in 1998, the College is the academic home for all post-baccalaureate programs in education in the University. As a College within a Catholic, Jesuit institution, the College of Education and Public Service offers its students an excellent professional education and a sound background within the broad and liberal curriculum of the Graduate School. The main objective of the college is to prepare dedicated, reflective practitioners who exhibit the knowledge, skills and dispositions embedded in the conceptual framework of the college. The shared values (or the 5Cs) that guide the programs include competence, conscience, compassion, commitment and community. Students are prepared to be reflective educators who are able to implement educational programs consistent with their areas of expertise

The College offers degree programs in Educational Leadership, Higher Education Administration, Curriculum and Instruction, Educational Foundations, and Special Education; the curricula for each program are detailed below. Graduate work in the College of Education and Public Service is designed for those individuals interested in pursuing advanced degrees in the specialties of Curriculum and Instruction, Educational Foundations, Educational Leadership, Higher Education Administration, Special Education, or Teacher Education. The College offers the M.A., M.A./M.B.A., M.A.T., Ed.S., Ed.D., and Ph.D. In addition, certification for the principalship, director of special education, and superintendency are offered through the programs. The following programs are accredited by the Missouri Department of Elementary and Secondary Education and the National Council for the Accreditation of Teacher Education (NCATE): elementary-, middle-, and secondary-school principal, director of special education, and superintendent of schools. All programs must be planned with an advisor.

Graduate Program Directors
Susan Everson, Ph.D.
Educational Leadership

Nikki Murdick, Ph.D.
Curriculum & Instruction, Educational Foundations, and Special Education

Karen A. Myers, Ph.D.
Higher Education Administration

Ronald Rebore, Ph.D.
International Programs

John James, Ed.D.
Catholic Education

Programs of Study

Curriculum and Instruction

M.A., M.A.T., Ed.D., Ph.D.
Students accepted into this specialty focus, on curriculum and related instructional processes and tools (including technology). Students who choose this area typically plan to pursue jobs as professional curriculum specialists or training specialists. The typical program in curriculum and instruction includes curriculum theory, curriculum design, instructional design, and curriculum and/or program evaluation. Students in the Curriculum and Instruction program may select an area of emphasis outside the College of Education and Public Service.

Educational Foundations

M.A., Ed.D., Ph.D.
Foundations of Education is a program designed to support critical inquiry into the nature of education. Graduate students typically study the disciplines of psychology, theory, history, philosophy, and sociology to analyze issues in education.

Educational Leadership

M.A., Ed.S., Ed.D., Ph.D.
The professional and certification programs in Educational Leadership prepare individuals for leadership positions at the school and school district level. The Ph.D. program also prepares students for academic positions in universities and research institutions. Certification programs are offered for the following positions: Director of Special Education; School Principal; Superintendent of Schools. Those in non-certification programs focus on trends and issues in educational leadership. Programs in Catholic School Leadership are also available.

Higher Education Administration

Student Personnel Administration (M.A.)
Higher Education Administration (M.A., Ph.D.)
The goal of the higher education administration program is to prepare students for leadership positions at the university and/or colleges. Areas of concentration include academic administration, financial administration and student personnel administration. The higher education administration programs integrate theoretical and experiential learning.

Special Education

M.A., Ph.D.
The professional programs in Special Education are designed to provide individuals with skills in policy development and/or expanded knowledge in a specific disability area: Early Childhood Special Education; Behavior Disorders; Learning Disabilities; or Intellectual Disability.

Graduate degree programs

Doctor of Philosophy

The Doctor of Philosophy (Ph.D.) program in the College of Education and Public Service emphasizes the interplay of theory and practice in education as well as a strong emphasis on research. Graduate students may choose an area of concentration in Curriculum and Instruction, Educational Foundations, Special Education, Educational Leadership, or Higher Education Administration.

Prerequisites
A Master's degree in Education or a related field and research requirements for the M.A. degree in the College of Education and Public Service.

Required Courses
A minimum of 72 credits beyond the baccalaureate with a minimum of 42 credits beyond the Master's Degree including 12 credits of dissertation research and 30 credits. Three advanced research courses approved by the College are required; demonstrated competency in a foreign language (not students' native tongue) may substitute for one of the required advanced research courses. Students must also pass written exams, preliminary oral examination of the dissertation proposal, and public oral defense of the dissertation.

Additional Requirements
Doctoral Residency is required for each program and should be arranged with an advisor on a contract basis to extend personal and professional development.

Doctor of Education

The Doctor of Education (Ed.D.) program emphasizes a practical problem-oriented curriculum. Students may choose an area of concentration in Curriculum and Instruction, Educational Foundations, Educational Leadership.

Prerequisites
A Master's degree in Education or a related field and 6 credits of research preparation (the same courses as those required for the Master of Arts degree or their equivalents).

Required Courses
A minimum of 70 credits of academic work beyond the baccalaureate, including 40 credits in education, an internship or practicum, and 3 credits of Project Guidance for the Ed.D. in Educational Leadership. A minimum of 72 credits of academic work beyond the baccalaureate including 38 credits in education and 4 credits of Project Guidance for Curriculum & Instruction, and Educational Foundations. Research requirements include those required for the Master of Arts degree (6 credits) and 1 advanced research course selected from those approved by the College. A minimum of 38 credits, excluding assigned prerequisites (if any), must be taken at

Saint Louis University. The Ed.D. degree program encourages students to begin their projects early in their program-tenure. Three to 4 Project Guidance credits will be included in the total credit requirement. Students should consult their advisors for course requirements, which differ in each of the programs (Educational Leadership, Curriculum and Instruction, and Educational Foundations).

Additional Requirements
Doctoral Residency is program dependent and should be arranged with an advisor on a contract basis to extend personal and professional development. Students must also take and pass written and oral exams.

Master of Arts

The Master of Arts degree is designed for those individuals seeking a degree in school leadership leading to certification as an elementary, middle, or high school principal, or post-baccalaureate work with an area of concentration in curriculum and instruction, educational foundations, student personnel administration, educational leadership or special education.

Prerequisites for Curriculum & Instruction, Educational Foundations, Special Education, and Educational Leadership
Eighteen credits of advanced undergraduate coursework in education or related areas approved by the College of Education and Public Service.

Prerequisites for Student Personnel Administration
A bachelor's degree in education or related fields approved by the College of Education and Public Service.

Required Courses
Coursework in educational leadership, higher education administration, curriculum and instruction, special education, and/or educational foundations; 6 credits in research-preparation coursework selected from those approved by the College.

Additional Requirements
A theme paper or written examination (program dependent)
A one-hour Oral Examination (program dependent)
Total required credits: 32

M.A./M.B.A. Dual Degree

The College of Education and Public Service and the John Cook School of Business jointly administer a dual degree program leading to the degrees of Master of Arts in Educational Administration and Master of Business Administration. These programs provide an awareness of the functional relationships between the educational system and business administrative organizations. Prospective students must apply separately to each program. This program includes scholarship opportunities

Prerequisites
Eighteen credits of advanced undergraduate coursework in education or related areas approved by the College of Education and Public Service and the prerequisites for the M.B.A. in the John Cook School of Business.

Required Courses
See a sample curriculum on the John Cook School of Business website (http://business.slu.edu/uploads/2012/10/26/graduate-business-ma-mba-curriculum-2012-2013.pdf)

Master of Arts in Teacher Education

The Master of Arts in teacher education is designed to offer classroom teachers three broad areas of development: knowledge in subject-matter areas; current educational developments; and the processes of teaching and learning. The course of study is for classroom teachers interested in professional growth.

Prerequisites
Eighteen credits of advanced undergraduate coursework in education or related areas approved by the College of Education and Public Service.

Required Courses
A carefully constructed program, including not more than six credits from outside the College of Education and Public Service, planned with an advisor.

Additional Requirements
A theme paper
An oral examination
Total credits: 32

Specialist in Education

The Specialist in Education degree program is offered for persons interested in developing competencies necessary for certification as superintendents of schools or advanced certification as elementary, middle, or high school principals.

Required Courses
A minimum of 30 credits at SLU beyond the Master's Degree and 6 credits of research-preparation (the same courses as those required for the Master of Arts degree or their equivalents).

Course Listing

CURRICULUM AND INSTRUCTION

Upper-Division Undergraduate Courses

EDI.421 Instructional Technology (2)
EDI.425 Elementary School Curriculum and Instruction (3)
EDI.426 Middle School Curriculum and Instruction (3)
EDI.427 Secondary School Curriculum and Instruction (3)
EDI.429 Mathematics for Diverse Learners (3)
EDI.430 Methods in Remedial Reading (3)
EDI.433 Methods in Advanced Reading (3)
EDI.442 Assessing Classroom Performance (3)
EDI.444 Assessment in Early Childhood (3-4)
EDI.445 Perceptual Motor Development (2)
EDI.448 Integrated Early Childhood Curriculum I (3)
EDI.449 Integrated Early Childhood Curriculum II (3)
EDI.451 Counseling in Early Childhood (3)
EDI.452 Principles of Early Childhood Education (3)
EDI.454 Practicum: Early Childhood Education (5)
EDI.455 Practicum: Elementary Education (4)
EDI.456 Practicum: Middle School (4)
EDI.457 Practicum: Secondary Education (4)
EDI.461 Health for Education Majors (2)
EDI.462 Cultural Diversity in the Classroom (3)
EDI.472 Home, School, Community Resources in Early Childhood Education (3)
EDI.479 Seminar: Early Childhood (3)
EDI.480 Educational Institute (2)

Post-baccalaureate courses

EDI.524 Seminar: Innovations in Elementary Math Methods (3)
EDI.539 Psychology of Reading (3)
EDI.543 Basic Human Anatomy for Teachers (3)
EDI.544 Human Physiology for Teachers (2)
EDI.560 Models of Teaching (3)
EDI.562 The Changing Roles of the Classroom Teacher (3)
EDI.570 Math for the Exceptional Child (3)
EDI.583 Techniques of Teaching Reading in the Content Area (3)
EDI.595 Special Study for Exams (0)
EDI.598 Graduate Reading Course (1-3)
EDI.601 Doctoral Residency (0-3)
EDI.604 Seminar: Children's Literature (3)
EDI.623 Seminar in Instruction (3)
EDI.625 Practicum: Curriculum and Instruction (3)
EDI.631The Supervisory Process in the Elementary School (3)
EDI.632 The Supervisory Process in the Secondary School (3)
EDI.641 The Elementary School Curriculum (3)
EDI.642 The Secondary School Curriculum (3)
EDI.643 Middle School Curriculum and Instruction (3)
EDI.644 Curriculum Development in Parochial Schools (3)
EDI.645 Curriculum Development (3)
EDI.646 Curriculum Theory (3)
EDI.648 Seminar in Curriculum (3)
EDI.650 Seminar: Religious Education (Advanced) (3)
EDI 655 Principles of Assessment for Education Settings (3)
EDI.695 Special Study for Exams (0)
EDI.696 Project Guidance (0-4)
EDI.697 Research Topics (1-3)
EDI.698 Graduate Reading Course (1-3)
EDI.699 Dissertation Research (0-12)

EDUCATIONAL LEADERSHIP

EDL.510 Foundations of Educational Administration (2-3)
EDL.515 Special Dimensions of Educational Administration (3)
EDL.520 School-Community Relations (2-3)
EDL.530 School Law (2-3)
EDL.545 Managing the Building Level Curriculum (3)
EDL.550 Seminar: Legal Issues in Higher Education (2-3)
EDL.560 Program Evaluation (3)
EDL.563 The Principalship I (3)
EDL.566 The Principalship II (3)
EDL.573 Professional Staff Development and Evaluation (2-3)
EDL.583 Internship: Building Principal (1-6)
EDL.584 Internship:Ed Admin-Superintendency,General Admin(3-6)
EDL.593 Special Topics (2-3)
EDL.595 Special Studies for Exams (0)
EDL.598 Graduate Reading Course (1-3)
EDL.5CR Master's Degree Study (0)
EDL.600 Professional Writing in Educational Leadership (3)
EDL.601 Doctoral Residency (0)
EDL.602 Case Studies: Org. & Admin. of Higher Education (3)
EDL.606 Research Design and Analysis (3)
EDL.608 Program Evaluation (3)
EDL.609 Qualitative Research for Educational Leaders (3)
EDL.610 Theory of Administration (3)
EDL.611 School District Administration (3)
EDL.614 The Politics of Educational Leadership (2-3)
EDL.615 Organization and Administration of Higher Education (3)
EDL.620 Ethics of Educational Leadership (3)
EDL.625 Seminar:School Admin Public and Non-Public School Relationships (2)
EDL.630 Advanced School Law (2-3)
EDL.639 Seminar: Gateway Leadership Institute (2-3)
EDL.640 Seminar: Human Resources Administration (2-3)
EDL.641 Professional Negotiations (2-3)
EDL.645 Managing the District Curriculum (3)
EDL.647 Planning and Maintaining School Facilities (2-3)
EDL.648 Advanced School Finance and Facilities (3)
EDL.650 School Finance (2-3)
EDL.659 Administration of Media (2-3)

EDL.665 Technology in Educational Administration (2-3)
EDL.693 Special Topics (1-3)
EDL.695 Special Study for Exams (0)
EDL.696 Project Guidance (0-3)
EDL.697 Research Topics in Educational Leadership (3)
EDL.698 Graduate Reading Course (1-3)
EDL.699 Dissertation Research (0-12)
EDL.6CR Doctor of Education Degree Study (0)
EDL.669 School Business Administration (2-3)

HIGHER EDUCATION ADMINISTRATION

EDH.525 History of Higher Education (2-3)
EDH.535 Student Development Theory I (3)
EDH.536 Student Development Theory II (3)
EDH.540 Law and Higher Education (3)
EDH.547 Legal and Ethical Issues In Student Personnel Admin (3)
EDH.560 Student Personnel Administration (3)
EDH.564 The Student in Higher Education (3)
EDH.565 Intervention Skills for Student Personnel Admin (3)
EDH.570 Internship: Higher Education Administration (1-3)
EDH.571 Internship: Student Personnel Admin in Higher Ed (1-3)
EDH.572 Internship: College Teaching (1-3)
EDH.575 Current Issues in Higher Education (3)
EDH.593 Special Topics (2-3)
EDH.595 Special Studies for Exams (0)
EDH.598 Graduate Reading Course (1-3)
EDH.5CR Master's Degree Study (0)
EDH.601 Doctoral Residency (0)
EDH.605 Disability in Higher Education and Society (3)
EDH.607 Evidence Based Decision Making in Education (3)
EDH.615 Org & Admin of Higher Ed (3)
EDH.658 Financial Administration in Higher Education (3)
EDH.660 Higher Education Curriculum (3)
EDH.670 College Teaching (3)
EDH.677 Seminar: Academic Administration (1-3)
EDH.693 Special Topics (1-3)
EDH.695 Special Study for Exams (0)
EDH.698 Graduate Reading Course (1-3)
EDH.699 Dissertation Research (0-12)
EDH.6CR Doctor of Education Degree Study (0)

SPECIAL EDUCATION

Upper-Division Undergraduate Courses

EDSP.424 Behavior Management: EC, EL, or SpEd. (2)
EDSP.425 Behavior Management: Mid, Sec, or SpEd. (2)
EDSP.431 Education and Psychology of the Exceptional Individual (3)
EDSP.438 Supervised Practicum in Early Childhood Special Education: Practice Teaching (6-10)
EDSP.439 Institute in Special Education (1-3)
EDSP.440 Speech and Language Development of the Exceptional Child (2-4)
EDSP.447 Teaching Methods for Inclusive Classrooms: EC and E1 (3)
EDSP.448 Teaching Methods for Inclusive Classrooms: Mid and Sec (3)
EDSP.451 Counseling in Special Education (2)
EDSP.453 Curriculum, Methods, and Materials in Early Childhood Special Education – Advanced (3)
EDSP.456 Special Education Process (2)
EDSP.460 Medical Implications in Special Education (3)
EDSP.464 Seminar in Early Childhood Special Education (3)
EDSP.465 Education of the Gifted (3)

Post-baccalaureate courses

EDSP.526 Practicum in Special Education (1-3)
EDSP.530 Teaching the Gifted (3)
EDSP.531 Advanced Studies in Psychology and Education of the Exceptional Individual (3)
EDSP.545 Advanced Counseling in Special Education (3)
EDSP.553 Fundamentals of Neurology (3)
EDSP.554 Individual Intelligence Testing (3)
EDSP.555 Advanced Assessment Procedures in Special Education (3)
EDSP.560 Seminar: Special Education (3)
EDSP.561 Seminar: Intellectual Disability (3)
EDSP.562 Seminar: Learning Disabilities (3)
EDSP.563 Seminar: Behavioral Disorders (3)
EDSP.564 Seminar in Early Childhood Special Education (3)
EDSP.594 Special Education Internship (3)
EDSP.595 Special Study for Exams (0)
EDSP.598 Graduate Reading Courses (1-3)
EDSP.601 Doctoral Residency (0-3)
EDSP.611 Special Education Administration (3)
EDSP.615 Advanced Professional Development (3)
EDSP.650 Advanced Seminar: Special Education (3)
EDSP.695 Special Study for Exams (0)
EDSP.698 Graduate Reading (0-3)
EDSP.699 Dissertation Research (0-12)

EDUCATIONAL FOUNDATIONS

Upper-Division Undergraduate Courses

EDF.423 Psychology of Teaching and Learning (3)
EDF.470 Human Growth and Development (3)
EDF.471 Early Childhood Growth and Development (3)

Post-baccalaureate courses

EDF.500 Theory of Education (2)
EDF.520 The Learning Process (2)
EDF.521 Individual Differences in Ability (2)
EDF.523 Motivation in Learning (2)
EDF.527 Personality Development and Adjustment (3)
EDF.530 Advanced Educational Psychology (3)
EDF.560 Foundations of Urban Education (3)
EDF.561 Foundations of Catholic Education (2-3)
EDF.570 Advanced Growth and Development (3)
EDF.595 Special Study for Exams (0)
EDF.598 Graduate Reading Course (1-3)
EDF.601 Doctoral Residency (0-3)

EDF.605 Multicultural Issues for Public Service Settings:Theory & Practice (3)
EDF.610 Studies in Educational Philosophy (3)
EDF.611 Seminar: Philosophy of Education (3)
EDF.620 Reading in Educational Classics (3)
EDF.630 Studies: Catholic Education (3)
EDF.631 Seminar: Catholic Education (3)
EDF.640 History of European Ed Through the Sixteenth Century (3)
EDF.641 History of European Ed Since the Sixteenth Century (3)
EDF.642 Seminar: History of European Education (3)
EDF.645 History of American Education to 1865 (3)
EDF.646 History of American Education Since 1865 (3)
EDF.650 Seminar: Education Psychology (3)
EDF.655 Principles of Assessment in Educational Settings (3)
EDF.660 Education in American Culture (3)
EDF.665 Seminar: History of American Education (3)
EDF.685 Seminar: Comparative Education (3)
EDF.687 Seminar: Current Educational Problems (3)
EDF.695 Special Study for Exams (0)
EDF.696 Project Guidance (0-4)
EDF.697 Research Topics (1-3)
EDF.698 Graduate Reading Course (1-3)
EDF.699 Dissertation Research (0-6)

RESEARCH

Post-baccalaureate courses

EDR.510 Intro to Inferential Statistics for Educators (3)
EDR.520 Test Construction Techniques (3)
EDR.540 Qualitative Research in Education (3)
EDR.550 Evaluation of Educational Programs (3)
EDR.560 General Research Methods for Educators (3)
EDR.595 Special Study for Examinations (0)
EDR.598 Graduate Reading Course (1-3)
EDR.599 Thesis Research (0-6)
EDR.5CR Master's Degree Study (0)
EDR.5CR Specialist Degree Study (0)
EDR.600 Professional Writing (3)
EDR.601 Doctoral Residency (0-3)
EDR.610 Intermediate Applied Statistics for Educators (3)
EDR.623 Action Research (3)
EDR.625 Curriculum Evaluation
EDR.640 Intermediate Qualitative Research for Educators (3)
EDR.665 Seminar: Reading Research (3)
EDR.671 Seminar: Current Research in Educational Psychology (3)
EDR.695 Special Study for Examinations (0)
EDR.696 Project Guidance (0)
EDR.697 Research Topics (1-3)
EDR.698 Graduate Reading Course (1-3)
EDR.699 Dissertation Research (0-6)
EDR.6CR Doctor of Education Degree Study (0)
EDR.6CR Doctor of Philosophy Degree Study (0)

ALBERT GNAEGI CENTER FOR HEALTH CARE ETHICS

Jeffrey P. Bishop, M.D., Ph.D.
Center Director and Department Chair

Erica K Salter, Ph.D.
Ph.D. Program Director

Doctor of Philosophy Health Care Ethics

The Doctor of Philosophy (Ph.D.) program presents an integrated, interdisciplinary curriculum in Health Care Ethics that prepares students to work as scholars, clinicians, and corporate ethicists. Students may tailor aspects of their coursework and their dissertation research to focus on biotechnological, clinical, organizational, or research ethics. Students pursuing the J.D./Ph.D., M.D./Ph.D., or the M.A./Ph.D. follow a modified curriculum. Students entering the Ph.D. program from baccalaureate studies pursue additional coursework as described below or can be found on our webpage www.slu.edu/bioethics/Ph.D.-program.

Admissions

Prerequisites for Admission to PH.D. Program through the M.D./PH.D. Program
M.D./Ph.D. students must have completed a graduate-level foundation of ethics course and applied ethics course. Students may satisfy these requirements as directed reading courses during the summer between the first and second years of medical school. Applicants to the health care ethics program must provide a sample of writing in health care ethics that demonstrates the ability to do doctoral level coursework.

Prerequisites for Admission to PH.D. Program through the Postgraduate Track
Students must have completed a Master's degree in a field relevant to health care ethics or a professional degree in a field of health care or law. Ordinarily, students whose Master's level curriculum did not include the following items will need to complete additional prerequisite course work to satisfy the following items:

1. Foundations in Philosophical Ethics (graduate-level, 3 credits).
2. Applied Ethics (graduate-level, 3 credits).
3. Logic or Critical Thinking (undergrad/graduate, 3 credits).
4. M.A. thesis in ethics or six credits of humanities studies which included essays.

Prerequisites for Admission to PH.D. Program through the Post-Baccalaureate Track
Post-baccalaureate: Applicants are required to possess a bachelor's degree with a major or a minor in a field related to ethics in the humanities (e.g., philosophy or religious studies) and their writing sample and statement of aims must evidence the maturity needed to complete a Ph.D. in health care ethics. Basic competencies in philosophical and applied ethics are developed within the doctoral curriculum.

Students entering the Ph.D. program directly from baccalaureate studies complete an additional 12 credits of coursework, as described in the following section. Students pursuing the J.D./Ph.D. or the M.D./Ph.D. complete a modified version of the Masters-level Ph.D. program curriculum described here. .

Required Courses
Students register for courses in five areas: Foundations, Context of Health Care, Topics and Scholars, Practica, and Dissertation Research

Foundations of Health Care Ethics (12 credits)
The Foundations courses establish the research competencies required for the scholarly analysis of health care ethics. These required courses examine philosophical (HCE.601), religious (HCE.602), and interdisciplinary (HCE.604) methods in health care ethics. Additionally, students are required to complete 1 of the following 3 foundations courses: HCE.605 Philosophical Foundations in Ethics, HCE.606 Psychosocial Foundations in Ethics, HCE.607 Foundations of Catholic Morality.

Context of Health Care (12 credits)
Five Context courses are required: Medicine for Ethicists (HCE.611, 1 credit) and Bioethics and the Law (HCE.660, 2 credits), HCE.618 Clinical Ethics, HCE-639 Research Ethics, and HCE.641 Practicum. These courses provide practical knowledge and skills relevant to the various real world contexts of health care ethics.

Topics and Scholars in Health Care Ethics (12 credits)
Students will complete 12 credits of Topics and Scholars courses. Preferably some electives will be in areas related to students' anticipated dissertation research.

Dissertation Research (12 credits)
After passing the comprehensive examinations, students prepare a dissertation proposal and write a dissertation while registered for 12 credits of dissertation research (HCE.699).

Additional requirements in the curriculum include the following:

Research Tools
These competencies are essential for success in health care ethics. Students may develop these competencies through different mechanisms.

1. Competency in medical terminology
2. Competency in library database skills
3. Competency in reading statistics and study design

Comprehensive Examinations
The comprehensive examinations occur after completing all course work and practica. For more information about comprehensive examinations, go to http://www.slu.edu/bioethics/Ph.D.-program/curriculum/comp-exams. You may 'click' on the website listed above or on the highlighted 'comprehensive examinations' text to link directly to the relevant web page.

Dissertation Proposal
After passing the oral and written comprehensive examinations, students prepare a formal dissertation proposal. The dissertation proposal is a distinct requirement of the program and it must be approved in writing by all members of the dissertation committee and the Center Director. In their dissertation proposals, Ph.D. candidates must present substantial evidence of their ability to extend the knowledge base in the major field and demonstrate how the research competencies in the program are to be integrated with the proposed research of the dissertation.

Oral Defense of the Dissertation
Upon completion of the dissertation, students publicly present and defend their dissertation before their dissertation committee, CHCE faculty and doctoral students.

Additional coursework requirement for students entering directly from baccalaureate studies
Students entering the Ph.D. Program directly from baccalaureate studies additionally complete 12 credits of coursework.

HCE.605 Philosophical Foundations of Ethics (3 credits) or an equivalent 3-credit graduate-level foundations of ethics course
HCE.606 Psychosocial Foundations in Ethics or a suitable 3-credit graduate-level applied ethics course available in another department
HCE.607 Catholic Foundations of Morality or a suitable 3-credit graduate-level applied ethics course available in another department
CMHC.502 Ethical Issues in Public Health or a suitable 3-credit graduate-level applied ethics course available in another department
And 1 upper level ethics elective either within HCE or another department.
Note: This lists 5 courses; however, one of the first 3 courses listed is required as a selective for all Ph.D. students and does not count toward the additional 12 credits required.

Concentration in Catholic Tradition

Students enrolled in the Ph.D. program in health care ethics may take 15 credits with an emphasis on health care ethics in the Catholic tradition and write a dissertation (12 credits) in the Catholic tradition to develop expertise in the area of Catholic health care ethics. *Note:* The Catholic Health Association has recommended that ethicists working in Catholic health care with an interdisciplinary Ph.D. degree should additionally hold an M.A. in Theology. We strongly recommend that students who do not already hold an M.A. in theology complete our dual degree program, offered in collaboration with the Aquinas Institute of Theology. Alternately, students should plan on completing an M.A. prior to commencing work in Catholic health care. The concentration requirements are outlined below.

Prerequisite

As a prerequisite, students must complete HCE.607 Foundations of Catholic Morality or demonstrate that they have completed an equivalent course at the 500 or 600 level.

HCE.602 Religious Methods in Health Care Ethics (3 credits)

Concentration students will focus their paper and receive special mentoring in the Catholic tradition.

HCE.631 Health Care Ethics in the Catholic Tradition (3 credits)

HCE.698 Graduate Reading Course (3 credits)

Students will complete at least one directed reading course on the Catholic tradition in health care ethics.

Elective related to Health Care and the Catholic Tradition (3 credits)

Concentration students would be required to take a course in an area relevant to health care and the Catholic tradition. [Note: This will be treated as one of the Topics and Scholars electives required as part of the Ph.D. program.]

Practicum (3 credits)

Students will complete a practicum in Catholic health care.

Dissertation (12 credits)

Students will write a dissertation on health care ethics in the Catholic Tradition.

Please refer to the CHCE website for course descriptions: http://bioethics.slu.edu/Ph.D._Course_Descriptions.html

Concentration in Empirical Research Methods

Students enrolled in the Ph.D. program in health care ethics may take 15 credits with an emphasis on health care ethics in the Catholic tradition and write a dissertation (12 credits) in the Catholic tradition to develop expertise in the area of Catholic health care ethics.

The Ph.D. Program was designed to produce graduates who are competent in *normative* health care ethics. Completion of the Empirical Research Methods concentration is meant to indicate special research competencies over and above those gained in the Ph.D. program. These specific competencies pertain to empirical research in the field of bioethics.

The Certificate Program has two tracks: Quantitative and Qualitative. Both tracks require the completion of 15 hours of coursework.

The capstone course for this concentration, HCE.652 Directed Empirical Research in Bioethics, requires students to gather original data that will be incorporated into the doctoral dissertation. The course will provide students with the mentoring necessary to integrate this data into the doctoral dissertation proposal in a way that is sensitive to the interdisciplinary nature of this endeavor.

COURSE OF STUDY FOR THE QUALITATIVE TRACK

- SOC.560 Research Methodology (or equivalent, such as SW.S775 Social Work Research)
- SOC.580 Survey Research Methods [Topics and Scholars Elective]
- NR-N610 Qualitative Methods in Nursing Research (or an equivalent post-baccalaureate level, introduction to qualitative methods course, such as SW-S776)
- A suitable course on Intermediate Qualitative Research
- HCE.652 Directed Empirical Research in Bioethics [Topics requirement]
- Dissertations Incorporating Original Empirical Research

COURSE OF STUDY FOR THE QUANTITATIVETRACK

- SOC.560 Research Methodology (or equivalent, such as SW-S775 Social Work Research)
- SOC.580 Survey Research Methods [Topics and Scholars Elective]
- PSY.625 Analysis of Variance and Experimental Design
- PSY.650 Multivariate Statistical Analysis
- HCE.652 Directed Empirical Research in Bioethics [Topics requirement]
- Dissertations Incorporating Original Empirical Research

As most courses build upon each other, course work is ordinarily to be completed in the order indicated above.

Please refer to the CHCE website for course descriptions: http://bioethics.slu.edu/Ph.D._Course_Descriptions.html

Concentration in Research Ethics

Students enrolled in the Ph.D. program in health care ethics may take 15 credits with an emphasis in research ethics and write a dissertation (12 credits) in research ethics to develop expertise in the area of human research ethics.

The concentration requirements are outlined below:

- HCE.603 Applied Methods in Health Care Ethics (3 credits) or HCE.604 Interdisciplinary Research in Health Care Ethics (3 credits)
    - Concentration students will focus their paper in the area of human subjects research. [Note: Both courses are required for the Ph.D. program. Students in the Human Research concentration would be required to focus on research ethics in at least one of the two classes.]
- HCE.639 Research Ethics (3 credits)
- HCE.698 (3 credits)
    - Students will complete at least one directed reading course in research ethics.
- Elective in Research Methodology (3 credits)
    - Concentration students would be required to take a class in research methodology or would be required to demonstrate advanced standing in this area. [Note: This will be treated as one of the Topics and Scholars electives required as part of the Ph.D. program.]
- Practicum (3 credits)
    - Students will complete their practicum in the area of human subjects research.
- Dissertation (12 credits)
    - Students will write a dissertation in research ethics.

J.D./Ph.D. Dual Degree

Students begin their dual degree studies at the School of Law as traditional first-year students. In their second and third years of study, students are primarily law students but take six credits of courses at the Center for Health Care Ethics. In addition to the six credits at the CHCE, students enroll in a three credit directed research course that is cross-listed by both programs. The directed research project is supervised by faculty from both programs and is treated as a traditional law school directed research project.

Dual degree students ordinarily graduate with the J.D. in three years of full-time study. It is recommended that they sit the bar exam in the summer following their graduation.

Beginning in the fall following their graduation from the School of Law, all academic work is dedicated to the Ph.D. program. The Ph.D. program recognizes 9 credits of law school courses towards the Ph.D.. (See details below.) Additionally, students will have completed 9 credits of Health Care Ethics classes during the J.D. program. Thus it is expected that students will complete their Ph.D. coursework in two semesters following their J.D. program. Comprehensive exams and the dissertation ordinarily require an additional three semesters.

During the entire time that students are enrolled in the dual degree program, it is expected that they will be engaged in both programs. Starting with their second year of law school, students will take part in Ph.D. seminars and other extracurricular programs offered by the doctoral program. Once they have completed their J.D. and are enrolled in the doctoral program, it is expected that they will remain engaged in relevant health law activities at the School of Law.

Prerequisites for Admission to PH.D. Program through the J.D./PH.D. Program
Ordinarily, J.D./Ph.D. students are required to satisfy the same prerequisites as students admitted to the Ph.D. program on the postgraduate admission track.

Curricular detail
Students complete the usual curriculum in both the Juris Doctor (J.D.) and Ph.D. programs. However, as indicated below, 18 credits of coursework satisfies requirements in both of the dual degree programs.

Law Courses Counted toward Ph.D. Degree (7 credits)
LAW.757 Health Care Law [3 credits; replaces Topics and Scholars Elective]
LAW.758 Bioethics and the Law [2 credits; Context Requirement]
LAW.86H22 Research Ethics [2 credits; replaces HCE 639 Research Ethics]

Ph.D. Courses Counted toward J.D. Degree (9 credits)
HCE.653 Directed Research in Health Law and Ethics [Cross listed with LAW-885: Directed Research (3)] [Required]

Plus two of the following five additional Ph.D. courses:
HCE.604 Interdisciplinary Research in Health Care Ethics (3)
HCE.605 Philosophical Foundations of Ethics (3)
HCE.606 Psychosocial Foundations in Ethics (3)
HCE.607 Catholic Foundations of Morality (3)
HCE.634 Health Care Reform (3)

* Note: Dual degree students complete the Masters-level Ph.D. program track, not the more extensive B.A.-level track.

M.D./Ph.D. Dual Degree

Students begin their dual degree studies as traditional first year students in the School of Medicine. After the second year of medical school, students begin full-time study in Health Care Ethics. Students are expected to complete the Ph.D. in three years, after which they return to the School of Medicine to complete the third and fourth years of medical studies.

A minimum of 48 credits is required for the Ph.D.. This ordinarily includes 33 credits of course work, three credits of practicum, and 12 credits of dissertation research. CHCE accepts 7 credits from Phase 1 and Phase 2 of the M.D. curriculum. The required courses HCE.611 Introduction to Medicine for Ethicists, one 3-credit Topics and Scholars elective and the HCE.641 Practica are waived based on medical school coursework in Patient, Physician, and Society I and II, and in Fundamentals of Biomedical Science. M.D./Ph.D. students will be recognized as having satisfied all three Research Tools requirements based on trainee knowledge of medical terminology, biostatistics, and library database searches. The remaining 27 credits of Ph.D. coursework, comprehensive exams, the dissertation, and the public defense of the dissertation must be completed during the three years of Ph.D. study.

* Note: Dual degree students complete the Masters-level Ph.D. program track, not the more extensive B.A.-level track.

M.A./Ph.D. Dual Degree

Ordinarily, students begin their M.A. studies at Aquinas Institute of Theology (AIT) during their first year of the program. In year 1, students will complete 30* credits of 36 credits required for the M.A. from AIT:

- 6 credits Biblical Studies
- 3 credits Historical Studies
- 12 credits Systematic Theology
- 9 credits Moral Theology

During the second year, students enter the Ph.D. program at Saint Louis University and follow the Ph.D. curriculum for students who already hold Master's degrees. In Year 2, dual degree students become eligible for assistantship funding. AIT will count 6 credits from the Ph.D. coursework completed in Year 2 toward completion of the M.A..

The following Ph.D. courses may be used to fulfill the final 6 credits toward the M.A.:
HCE.602 (Religious Methods in Health Care Ethics) or HCE.631 (Health Care Ethics in the Catholic Tradition) [Dual degree students must enroll in both of these courses during their time in the Ph.D. program. Completion of 1 of the courses is required for completion of the M.A. These courses are offered in alternating spring semesters. Therefore, students will complete only one of them in Year 2 of the dual degree program.]

A 3-credit elective in HCE

A total of 6 credits taken toward the M.A. at AIT will count towards fulfillment of the Topics and Scholars elective requirements in the Ph.D. program.

Two of the following M.A. courses may be treated as Topics and Scholars electives for the Ph.D.:
Justice and Catholic Social Teaching
Ethics of Human Sexuality
Christian Anthropology
(Any substitutions to these courses must be approved by the M.A. advisor and the Center Director.)

After the end of Year 2 and completion of the major paper and comprehensive exams required for the M.A. degree, students are awarded the M.A. in Theology from AIT. The timing for completion of the major paper and the comprehensive exams is to be determined in consultation with the M.A. advisor at AIT.

In Year 3, students begin the coursework required for the Ph.D.

CENTER FOR ADVANCED DENTAL EDUCATION (CADE)

John F. Hatton, D.M.D.
Executive Director

The Center for Advanced Dental Education (CADE) at Saint Louis University is the academic division through which advanced training in dentistry is administered. The Center is committed to advancing the science and the art of all dental specialties through outstanding education, patient care, and research while promoting a multidisciplinary focus. At the present time, CADE is comprised of three post-baccalaureate dental training programs: Endodontics, Orthodontics, and Periodontics. The Orthodontic program is wholly based at Saint Louis University, while the Endodontic and Periodontic programs are offered in close affiliation with Southern Illinois University School of Dental Medicine, Alton, Illinois. All advanced dental training programs are fully accredited by the Commission on Dental Accreditation of the American Dental Association.

The prerequisite for matriculation in any CADE dental training program is possession of a D.D.S., D.M.D., or equivalent general dental degree. Selection for admission is based upon the completed application file and a personal interview. Successful completion of all CADE dental program requirements results in a Master of Science in Dentistry degree and a specialty certificate of completion of didactic and clinical requirements. Each individual specialty program demands full-time participation at SLU. The three programs vary in length and differ in educational goals. Requirements include courses from the core listings below, as well as specialty courses unique to the individual discipline (listed subsequently). The goal of the core curriculum is to provide advanced concepts in the sciences that comprise the foundation of post-baccalaureate dental education.

Post-baccalaureate courses

CAD.501 Pain: Anatomy, Physiology, Psychology, Diagnosis & Treatment (1)
CAD.503 Advanced Oral Microbiology (2)
CAD.504 Molecular Biology of the Cell (2)
CAD.505 Introduction to Statistical Inference (3)
CAD.506 Ethics in Dental Research and Practice (0)
CAD.508 Multidisciplinary Diagnosis and Treatment Planning I (1)
CAD.509 Research in Graduate Dentistry (1)
CAD.510 Dental Therapeutics (1)
CAD.511 Principles of Practice Management (1)
CAD.514 TMJ Disorders (0-1)
CAD.516 Advanced Oral Medicine (1)
CAD.517 Advanced Oral Pathology (1)
CAD.519 Advanced Head and Neck Anatomy (2)
CAD.522 Clinical Immunology (1)
CAD.524 Implants & Temporary Anchorage Devices (1)
CAD.G595 Special Study for Examinations (0)
ORES.510.02 Research Methods in Health and Medicine (3)

ENDODONTICS

John F. Hatton, D.M.D.
Program Director

The Center for Advanced Dental Education at Saint Louis University offers a 24-month program in the specialty of Endodontics that leads to a Master of Science in Dentistry degree. The didactic and clinical phases of the program are conducted at both Saint Louis University and Southern Illinois University School of Dental Medicine, Alton, Illinois. Focus of the training program is three-fold: a comprehensive clinical experience involving diagnosis and treatment of all categories of nonsurgical and surgical endodontic cases; the didactic core and specialty courses encompassing biomedical and clinical concepts; and research related to the discipline of endodontics. The program is fully accredited by the Commission on Dental Accreditation of the American Dental Association. Following completion of the program, graduates are educationally qualified for certification by the American Board of Endodontics.

Master of Science in Dentistry

Prerequisites
D.D.S., D.M.D., or equivalent general dental degree.

Required Courses
All core courses described under the section entitled Center for Advanced Dental Education, except CAD.514 and CAD.524. In addition, endodontic specialty courses include all courses described below.

Additional Requirements
Supervised clinical endodontic treatment of patients; comprehensive endodontic specialty examinations utilizing written, oral, and practical clinical formats; teaching practicum. Total required credits: 52

No formal minor is permitted.

Post-baccalaureate courses
ENDG.500 Preclinical Endodontic Technique (1)
ENDG.520 Literature Review (1)
ENDG.521 Literature Review II (1)
ENDG.522 Literature Review III (1)
ENDG.523 Literature Review IV (1)
ENDG.524 Literature Review V (1)
ENDG.530 Preclinical Teaching Practicum (0)
ENDG.531 Clinical Teaching Practicum (0)
ENDG.541 Pulp Biology (1)
ENDG.547 Concepts in Biomedical Science (1)
ENDG.551 Principles of Endodontic Surgery (1)
ENDG.552 American Board of Endodontics Review (1)
ENDG.560 Clinical Endodontics (1)
ENDG.561 Clinical Endodontics II (2)
ENDG.562 Clinical Endodontics III (2)
ENDG.563 Clinical Endodontics IV (1)
ENDG.564 Clinical Endodontics V (2)
ENDG.565 Clinical Endodontics VI (2)
ENDG.566 Clinical Endodontics VII (1)
ENDG.591 Endodontic Journal Club (0-1)
ENDG.595 Special Study for Examinations (0)
ENDG.599 Thesis Research (0-6)
ENDG.5CR Master's Degree Study (0)

ORTHODONTICS

Rolf G. Behrents, D.D.S., M.S., Ph.D.
Program Director

The Center for Advanced Dental Education at Saint Louis University offers a post-baccalaureate training program in Orthodontics that is 30 months in length. The program offers three basic areas of training: an extensive and comprehensive clinical experience that involves diagnosis, treatment planning, active treatment and retention of patients representing a variety of malocclusions and craniofacial deformities; a didactic core and specialty education that encompasses biomedical sciences as well as clinical concepts; and research related to the discipline. The program is fully accredited by the Commission on Dental Accreditation of the American Dental Association. Following completion of the program, graduates are educationally qualified for certification by the American Board of Orthodontics.

Master of Science in Dentistry

Prerequisite
D.D.S., D.M.D., or equivalent general dental degree.

Required Courses
All core courses described under the section entitled Center for Advanced Dental Education are required except for CAD.503, CAD.510, and CAD.522. In addition, specialty courses required include all courses described below.

Additional Requirements
Supervised active and retention clinical orthodontic treatment of patients; comprehensive orthodontic specialty examinations utilizing written, oral, and practical clinical formats. Total required credits: 85.

No formal minor is permitted.

Post-baccalaureate courses

ORTH.501 Fundamentals of Orthodontics (2)
ORTH.503 Facial Development (2)
ORTH.510 Biomechanics (2)
ORTH.525 Clinical Cephalometrics (2)
ORTH.535 Surgical Orthodontics (1)
ORTH.537 Orthodontic Problems Related to Cleft Palate Patient (1)
ORTH.539 Speech Problems Related to the Oral Mechanism (1)
ORTH.540 History of Orthodontics (1)
ORTH.549 Diagnostic Procedures in Orthodontics (1)
ORTH.550 Diagnosis and Treatment Planning I (1)
ORTH.553 Clinical Diagnosis I (1)
ORTH.554 Clinical Diagnosis II (1)
ORTH.555 Orthodontic Analysis and Treatment Modalities (1)
ORTH.556 Clinical Case Conference (0-1)
ORTH.558 Clinical Specialty Seminars (1)
ORTH.560 Introduction to Clinical Orthodontics (1)
ORTH.561 Introduction to Clinical Orthodontics II (1)
ORTH.562 Principles of Orthodontic Techniques (2)
ORTH.563 Principles of Orthodontic Techniques II (2)
ORTH.570 Clinical Procedures (1)
ORTH.571 Clinical Orthodontics I (2)
ORTH.572 Clinical Orthodontics II (3)
ORTH.573 Clinical Orthodontics III (1)
ORTH.574 Clinical Orthodontics IV (3)
ORTH.575 Clinical Orthodontics V (3)
ORTH.576 Clinical Orthodontics VI (1)
ORTH.577 Clinical Orthodontics VII (3)
ORTH.578 Clinical Orthodontics VIII (0-3)
ORTH.580 Seminar: Child and Adolescent Psychology (1)
ORTH.584 Diagnostic Seminars on Early & Mixed Dentition Treatment (1)
ORTH.585 Diagnostic Seminars on Adult & Interdisciplinary Treatment (2)
ORTH.589 Review for the ABO Examination (0)
ORTH.591 Literature Review (1)
ORTH.595 Special Study for Examinations (0)
ORTH.597 Research Topics (1-2)
ORTH.599 Thesis Research (0-6)

PERIODONTICS

D. Douglas Miley, D.M.D., M.S.D.
Program Director

The 36-month program in Periodontics, offered by the Center for Advanced Dental Education, leads to the Master of Science in Dentistry degree. Didactic and clinical education in periodontics occurs at the host institution, Saint Louis University, as well as at an affiliate institution, Southern Illinois University School of Dental Medicine, Alton, Illinois. Focus of the training program is three-fold: an extensive and comprehensive clinical experience involving diagnosis and treatment of patients representing a wide variety of periodontal problems; the didactic component that encompasses the biomedical sciences as well as clinical concepts; and research related to the study of periodontology. The program is fully accredited by the Commission on Dental Accreditation of the American Dental Association. Following completion of the program, graduates are educationally qualified for certification by the American Board of Periodontology.

Master of Science in Dentistry

Prerequisites
D.D.S., D.M.D., or equivalent general dental degree.

Required Courses
All CADE core courses described within the section entitled Center for Advanced Dental Education, except CAD.511 and CAD.524. In addition, required periodontal specialty courses include all courses described below.

Additional Requirements
Supervised clinical periodontal treatment of patients; comprehensive periodontal specialty examinations utilizing written, oral, and practical clinical formats; teaching practicum; oral defense of the thesis. Total required credits: 63.

No formal minor is permitted.

Post-baccalaureate courses

PERI.500 Principles of Periodontics (1)
PERI.501 Periodontal Literature Reviews I (1)
PERI.502 Periodontal Literature Reviews II (1)
PERI.503 Periodontal Literature Reviews III (1)
PERI.504 Periodontal Literature Reviews IV (1)
PERI.505 Periodontal Literature Reviews V (1)
PERI.506 Periodontal Literature Reviews VI (1)
PERI.510 Conscious Sedation I (1)

PERI.511 Conscious Sedation II (1)
PERI.520 Introduction to Graduate Implant Dentistry I (1)
PERI.521 Introduction to Graduate Implant Dentistry II (1)
PERI.522 Advanced Implant Surgery I (1)
PERI.523 Advanced Implant Surgery II (1)
PERI.530 Clinical Teaching Practicum (0)
PERI.540 Periodontal Case Presentation Seminar (1)
PERI.560 Clinical Periodontics I (1)
PERI.561 Clinical Periodontics II (2)
PERI.562 Clinical Periodontics III (2)
PERI.563 Clinical Periodontics IV (1)
PERI.564 Clinical Periodontics V (2)
PERI.565 Clinical Periodontics VI (2)
PERI.566 Clinical Periodontics VII (1)
PERI.567 Clinical Periodontics VIII (2)
PERI.568 Clinical Periodontics IX (2)
PERI.570 Periodontal Systemic Interrelationships (0)
PERI.580 Orthodontic-Periodontic Interrelationships (0)
PERI.591 Current Literature in Periodontics (1)
PERI.595 Special Study for Examinations (0)
PERI.599 Thesis Research (0-6)
PERI.5CR Master's Degree Study (0)

CENTER FOR SUSTAINABILITY

John Woolschlager,
Ph.D., Director

Sustainability focuses on meeting the social, economic, and environmental needs of present-day society and future generations without damaging the planet's regenerative capacity. Inherent in this description is a focus on service to others, which aligns with Saint Louis University's Jesuit mission.

Saint Louis University's Center for Sustainability was established in 2010 by a grant from the Alberici Foundation. The program offers in-demand degrees and expertise on critical environmental, social, and economic challenges. Through innovative academic programs, applied research, and community engagement, the Center for Sustainability's students and faculty develop creative, collaborative solutions to improve the world around them.

In 2012, the Center expanded its academic and research capacity with the addition of the Urban Planning and Development (UPD) program and a certificate in Geographic Information Systems (GIS). These programs provide education, community dialogue, and research to support urban growth, revitalization, and environmental assessment in the St. Louis region and around the world.

Master of Science in Sustainability

The Master of Science (M.S.) degree in Sustainability trains students to be leaders who understand the cascading issues surrounding our increasing use of decreasing resources. Core courses provide students with an integrated view of sustainability that incorporates cross-disciplinary knowledge in environmental and social science, technology, business, and policy. Given the unique interdisciplinary nature of sustainability, the Center for Sustainability and its partner schools offer a variety of electives.

Because sustainability is an expansive field of study, we have built a flexible program that caters to each student's interests and career goals. We encourage students to set up advising appointments with faculty and staff, who can help them navigate their choices and craft a program of study. The M.S. is a 30-credit degree program that students can pursue on a part-time or full-time basis.

Required Courses (18 credits)
MOS.502 Sustainability Foundations (3)
UPD.501 Research Methods (3)
MOS.505 Sustainable Business Practices (3)
MOS.506 Environmental Aspects of Sustainability (3)
MOS.511 Sustainability in Society and Cultures (3)
MOS.582 Capstone (3)

Electives
Students select 12 credits in consultation with an advisor.

Thesis option
Students may take 6 credits of MOS.599 Thesis Research in lieu of MOS.582 and 3 credits of electives (9).

Accelerated Master of Science

Undergraduate students can complete up to one full year of post-baccalaureate coursework (15 credits) before entering the masters program by taking courses offered through the Center for Sustainability. More information and a list of requirements are available at http://www.slu.edu/sustainability/graduate-programs/accelerated-masters-program.

Dual Degree M.B.A. and M.S. in Sustainability

Master of Business Administration and Master of Science in Sustainability
This dual-degree program is one of the first of its kind offered by an AACSB-accredited institution. It provides broad coverage of business and sustainability concepts. The Master of Business Administration (M.B.A.) degree prepares students to be effective leaders in a global economy, and the M.S. in Sustainability provides insights into how businesses can enhance economic, social, and environmental performance. This is a full-time program in which it is expected that students will complete both degrees in 18 months.

Required Courses – M.B.A. (38 credits)

MBA.621 Information Technology in Organizations (1)
MBA.622 Operations Management of Sustainability (2)
MBA.623 Supply Chain Management (1)
MBA.625 Essentials of Marketing Strategy (2)
MBA.627 Foundations in Strategy and Management (2)
MBA.628 Integrated Decision Making (2)
MBA.630 Applied Statistics (2)
MBA.631 Legal Aspects of Business (1)
MBA.632 Financial Accounting (1)
MBA.633 Managerial Economics (2)
MBA.634 Nexus I (1)
MBA.636 Financial Management (3)
MBA.637 Ethical Environment of Business (1)
MBA.638 Managerial Accounting (1)
MBA.641 Global Business Integration (2)
MBA.642 Data and Decisions (3)
MBA.643 The Organization: Governance, Compliance, and Strategy (3)
MBA.644 Nexus II (1)
MBA.651 Study Abroad (3)
MBA.653 Integrated Consulting Module (3)
MBA.654 Nexus III (1)

Additional Electives

Students select 6 credits in consultation with advisor.

Required Courses – M.S. in Sustainability (18 credits)

MOS.502 Sustainability Foundations (3)
UPD.501 Research Methods (3)
MOS.505 Sustainable Business Practices (3)
MOS.506 Environmental Aspects of Sustainability (3)
MOS.511 Sustainability in Society and Cultures (3)
MOS.582 Capstone (3)

Additional Electives

Students select 12 credits in consultation with an advisor.

Master of Arts in Urban Planning and Development

In 2009, *U.S. News and World Report* chose urban planning as a top career with high job satisfaction and staying power. Urban planners play pivotal roles in improving communities, often working with residents, local business owners, and other professionals to plan for the future and implement successful policies and programs. They are trained as problem solvers and frequently draw on knowledge of economics, architecture, real estate, sociology, finance, politics, history, and law. Urban planners understand the complexities of cities and recognize the short- and long-term impacts of policies. Our students also gain an understanding of real estate and land transactions that is unique to the program.

The Master of Arts (M.A.) degree in Urban Planning and Development (UPD) is the only degree of its kind in Missouri or at a Jesuit university. The program is interdisciplinary and operates in conjunction with the John Cook School of Business and the School of Law. Our intimate classes emphasize skill building, discussion, and debate. The learning experience offered by Saint Louis University and the Center for Sustainability allows UPD graduates to become leaders in the public and private sectors and make positive impacts in planning and development.

The M.A. is a 45 credit degree program that students can pursue on a full- or part-time basis. Students who attend full-time, including the summer session, can complete the degree in two years. Those who attend part-time, with a minimum participation of six credits per semester, can complete the degree in 3.5 years.

Required Courses (27 credits)

UPD.500 Urban and Regional Development Theory (3)
UPD.501 Planning Methods (3)
UPD.510 Local Economic Development Policy and Practice (3)
UPD.525 Infrastructure Planning and Processes (3)
UPD.530 Theory and Foundations of Planning (3)
UPD.531 Land Use Planning and Analysis (3)
LAW.768 Land Use Control (3)
UPD.533 Real Estate Finance (3)
UPD.544 Planning and Development Studio (3)
UPD.585 Capstone/Project (3)

Additional Requirements

UPD.594 Internship for pre-service students (3)

Electives

Students select 12 credits in consultation with an advisor. We encourage students to use electives to pursue one of the following specializations:

- Community Development
- Economic Development
- Geographic Information Systems (GIS)
- Real Estate Development
- Environmental and Sustainability Planning

Dual Degree J.D. and M.A. in Urban Planning and Development

Juris Doctor of Law and Master of Arts in Urban Planning and Development
This dual-degree program combines the rigorous legal education of the juris doctorate (J.D.) of law program with training in spatial and policy analysis unique to urban planning and development. We expect students to complete the requirements of this dual degree in four years.

Required Courses – J.D. (39 credits)
LAW.720 Contracts I (3)
LAW.721 Contracts II (2)
LAW.740 Torts (4)
LAW.760 Property (4)
LAW.768 Land Use Control (3)
LAW.770 Real Estate Transactions (3)
LAW.800 Civil Procedure I (2)
LAW.801 Civil Procedure II (3)
LAW.819 Constitutional Law (3)
LAW.822 Criminal Law (3)
LAW.835 State and Local Government Law (3)
LAW.880 Legal Research Writing (3)
LAW.881 Legal Research Writing II (3)

Electives
Students select a total of 52 credits of electives—including a professional ethics elective (3), a professional skills elective (3), UPD electives (9), and general law electives (37)—in consultation with an advisor.

Required Courses – M.A. in Urban Planning and Development (36 credits)
UPD.500 Urban and Regional Development Theory (3)
UPD.501 Planning Methods (3)
UPD.510 Local Economic Development Policy and Practice (3)
UPD.530 Theory and Foundations of Planning (3)
UPD.531 Land Use Planning and Analysis (3)
UPD.533 Real Estate Finance (3)
UPD.544 Planning and Development Studio (3)
UPD.585 Capstone Project (3)
GIS.535 Introduction to GIS (3)
LAW.768 Land Use Control (3)
LAW.770 Real Estate Transactions (3)
LAW.835 State and Local Government Law (3)

Electives
Students select 9 credits in consultation with an advisor.

Internship
Students may be required to complete a 3-credit internship depending on professional or practicum experience.

Certificate in Advanced Remote Sensing and G.I.S.

We developed the certificate program in Advanced Remote Sensing and Geographic Information Systems (G.I.S.) to fill a growing demand for geospatial science skills in today's job market. The program trains students to become expert G.I.S. users who are well grounded in theoretical knowledge and have practical skills to develop new applications in various disciplines of geospatial analysis and remote sensing.

The program emphasizes applying advanced remote sensing and G.I.S. methods and technologies to spatial problems. Students are required to complete 15 credits of courses.

Required Courses (9–12 credits)
GIS.501 Introduction to GIS (3)
GIS.502 Intermediate GIS (3)
GIS.504 Introduction to Remote Sensing (3)
GIS.585 GIS Capstone (3)

Electives
Students select 3 to 6 credits in consultation with an advisor.

CENTER FOR OUTCOMES RESEARCH (SLU*COR*)

Thomas Burroughs, Ph.D.,
Executive Director SLUCOR

Leslie Hinyard, Ph.D., M.S.W.,
Associate Director of Academic Affairs

Health outcomes research is a rapidly expanding, interdisciplinary field that provides evidence and guidance for understanding the endpoints of treatments, interventions, and health care practices, be they clinical, functional, quality of life, or economic. It builds evidence about benefits, risks, and results of treatments, as well as cost and quality of care, that allow clinicians and patients to make informed health care decisions and for policy makers to implement best practices.

The Center for Outcomes Research (SLU*COR*) embraces the university's educational mission through courses, student mentorship, training programs for School of Medicine residents and fellows, and directing the health services research/health outcomes research concentration in the public health studies doctoral program (offered through the College for Public Health and Social Justice). SLU*COR* offers a Master of Science in Health Outcomes Research and Evaluation Sciences and a dual degree program with the School of Law (M.S./J.D.). The center also offers a certificate in Health Outcomes Research.

Master of Science in Health Outcomes Research and Evaluation Sciences

The Masters of Science (M.S.) in Health Outcomes Research and Evaluation Sciences program is an entirely online program created in response to the current healthcare climate and need for researchers trained in the areas of health outcomes research, health services research, and program evaluation to meet the changing needs of our healthcare system. The primary goal of the program is to enhance the regional and national workforce with analytical capabilities and expertise necessary to conduct health outcomes research. An M.S. in Health Outcomes Research and Evaluation Sciences positions students to become leaders in the diverse areas of health outcomes research. Students receive a solid foundation in research methodology, data management and statistical analysis, and scientific writing and presentation.

The mission of the Saint Louis University Center for Outcomes Research (SLU*COR*) is to be a national resource that informs health care and policy decisions with scientific information about quality and effectiveness. We solve complex design and analysis problems in medicine and public health. We are engaged in state-of-the-science evaluations of the services, medications, devices, and diagnostics that can optimize individual health and well-being. SLU*COR* is also committed to translating research into policies and practices that improve health outcomes across the population. SLU*COR* offers a Master of Science in Health Outcomes Research and Evaluation Sciences degree, a dual degree (M.S./J.D.) with the School of Law, and a certificate in Health Outcomes Research and Evaluation.

All SLU*COR* programs are offered in a distance-learning (web-based) format to provide scheduling flexibility and to meet the needs of working professionals. The M.S. and the certificate may be completed on a part-time or full-time basis. The M.S./J.D. dual degree program must be completed as a full-time student. The M.S. and the M.S./J.D. require the completion of a capstone research project.

The M.S. in Health Outcomes Research and Evaluation Sciences has two available concentrations: 1) General Health Outcomes Research and 2) Clinical Investigation. Both concentrations require completion of the Core Curriculum (24 credits), the concentration-specific curriculum (12 credits), and the completion of a capstone research project. Students complete a total of 36 credits of coursework. The program may be completed on a full-time or part-time basis.

Requirements
ORES-530 and ORES-531 must be taken consecutively in the first year of study.

Required Core Coursework (24 credits):
ORES 501 Introduction to Biostatistics for Health Outcomes Research (3)
ORES 530 Foundations of Outcomes Research I (3)
ORES 531 Foundations of Outcomes Research II (3)
ORES 532 Scientific Writing and Communication (2)
ORES 533 Research Ethics (1)
ORES 515 Multivariate Analysis for Health Outcomes Research (3)

ORES 516 Data Management (3)
ORES 540 Pharmacoeconomics (3)
ORES 590 Health Outcomes Research Capstone (3)

General Concentration

Requirements
Students must complete the core curriculum and the concentration curriculum as follows:

Concentration Curriculum (12 credits)
Students choose 4 of the following electives:
ORES 521 Foundations of Medical Diagnosis and Treatment (3)
ORES 526 Pharmacoepidemiology (3)
ORES 541 Evaluation Sciences (3)
ORES 542 Clinical Trials Design and Analysis (3)
ORES 543 Health Outcomes Measurement (3)
ORES 544 Comparative Effectiveness Research (3)
ORES 545 Biomedical Informatics (3)
ORES 546 Drug and Device Development (3)

Clinical Investigation Concentration

Requirements
Students must complete the core curriculum and the concentration curriculum as follows:

Concentration Curriculum (12 credits)
Students must complete:

ORES 542 Clinical Trials Design and Analysis (3)

And 3 of the following courses:

ORES 543 Health Outcomes Measurement (3)
ORES 544 Comparative Effectiveness Research (3)
ORES 545 Biomedical Informatics (3)
ORES 546 Drug and Device Development (3)

Master of Science/Juris Doctor Dual Degree

The M.S./J.D. dual degree program is offered in collaboration with the School of Law, which is accredited by the American Bar Association. This integrated program requires completion of the professional law school requirements as well as fulfillment of a complete M.S. degree (36 credits), which includes 9 credits from the School of Law J.D. degree requirements.

Dual Degree Prerequisites
Students must meet the admission requirements and be admitted into both degree programs according to the processes of each of the participating academic units in order to pursue the dual degree program. Individuals may apply to the M.S. program concurrently with application to the School of Law or following admission to the School of Law; however, admission into the dual degree program is contingent upon admission into both the M.S. and J.D. programs.

Requirements
Students must complete the M.S. core curriculum as revised here:

Required Core Coursework (21 credits):
ORES 501 Foundations of Medical Diagnosis and Treatment (3)
ORES.530 Foundations of Outcomes Research I (3)
ORES.531 Foundations of Outcomes Research II (3)
ORES.515 Multivariate Analysis for Health Outcomes Research (3)
ORES.516 Data Management (3)
ORES.540 Pharmacoeconomics (3)
ORES.590 Health Outcomes Research Capstone (3)

Concentration Curriculum (6 credits):
Students must complete at least 6 credits from the following:
ORES.541 Evaluation Sciences (3)
ORES.542 Clinical Trials Design and Analysis (3)
ORES.544 Comparative Effectiveness Research (3)

Three credits from the following electives:
ORES.521 Foundations of Medical Diagnosis and Treatment (3)
ORES.526 Pharmacoepidemiology (3)
ORES.543 Health Outcomes Measurement (3)
ORES.545 Biomedical Informatics (3)

Students complete:
Nine credits of advisor-approved coursework from the School of Law J.D. degree requirements

Certificate in Health Outcomes Research

Requirements
A bachelor's degree from an accredited college or university

Prerequisite Coursework
Post-baccalaureate level inferential statistics (may be taken concurrently with first semester in the program)

Curriculum (18 credits)
Students must complete the following core courses (12 credits):

ORES 501 Introduction to Biostatistics for Health Outcomes Research (3)
ORES.530 Foundations of Outcomes Research I (3)
ORES.531 Foundations of Outcomes Research II (3)
ORES.515 Multivariate Analysis for Health Outcomes Research (3)

Choose 6 credits from the following electives:

ORES.526 Pharmacoepidemiology (3)
ORES.540 Pharmacoeconomics (3)
ORES.541 Evaluation Sciences (3)
ORES.542 Clinical Trials Design and Analysis (3)
ORES.543 Health Outcomes Measurement (3)
ORES.544 Comparative Effectiveness Research (3)
ORES.545 Biomedical Informatics (3)
ORES.546 Drug and Device Development (3)

Additional Post-baccalaureate coursework offered by SLU*COR*

In addition to the courses and electives offered for the SLU*COR* programs, SLU*COR* also offers post-baccalaureate level courses in research methods and statistics for students across the university. Courses offered by SLU*COR* that are not part of a SLU*COR* degree program are as follows:

ORES.501 Introduction to Biostatistics for Health Outcomes Research (3)
ORES.510 Research Methods in Health and Medicine (3)
ORES.512 Practical Applications of Statistical Methods (open only to M.S. in Nutrition and Dietetics students) (3)
ORES.520 Introduction to Statistics in the Biomedical Sciences (3)
ORES.555 SAS Programming I (3)