

# PUBLIC HEALTH STUDIES, PH.D.

Saint Louis University's Ph.D. in Public Health Studies provides expertise in research design, methods and dissemination in an interdisciplinary setting. Students gain a solid understanding of public health science, including the distribution and determinants of health and disease across populations.

SLU's public health faculty use an apprenticeship model in which students are paired with a faculty member as a mentor from the start of the program. Doctoral students work with their mentors to forge their research pathways, as well as work collaboratively with other students and faculty. Our students are expected to produce high-quality manuscripts, participate in research and journal clubs and academic and professional programming outside of the classroom. Doctoral student research is showcased at local symposia, as well as at regional, national and international conferences.

## Curriculum Overview

SLU's public health Ph.D. program requires 72 credits. Students take 42 credits of coursework to train in their research concentration area, 18 credits of doctoral courses and 12 credits of dissertation research. Students may apply some of their master's degree coursework toward advanced standing (no more than 24 hours of advanced standing). The faculty mentor and doctoral director review prior coursework to ensure competencies at both doctoral and concentration core areas.

## Fieldwork and Research Opportunities

Students may choose from one of five concentrations: behavioral science and health education; biostatistics; epidemiology; health management and policy; and health outcomes research (in collaboration with SLU's Center for Health Outcomes Research (SLUCOR)).

### Behavioral Science and Health Education

This concentration focuses on behavioral science and how it interacts at individual, organizational, community or societal levels. The type of research occurs in community- and clinic-based environments, as well as domestically and internationally. Current areas of research for faculty include:

- Health disparities
- Health promotion, communication and disease prevention interventions for chronic diseases
- Injury prevention
- Maternal and child health
- Nutrition and physical activity
- Sexual and reproductive health
- Global health

### Biostatistics

The biostatistics concentration focuses on research for developing and testing statistical methods and responds to public health challenges using innovative computational and statistical programming. Current areas of research for faculty include:

- Methodology and application of causal inference
- Geospatial analyses to study associations between the built environment and chronic diseases
- Optimal experimental design
- Statistical modeling of genetic and environmental effects on co-morbidity

### Epidemiology

This concentration focuses on research about the distribution and determinants of health and disease in human populations. Current areas of research for faculty include:

- Cancer and chronic diseases
- Exposure assessment
- Global health
- Implementation research in public health settings
- Maternal child health

### Health Management and Policy

This concentration focuses on research about policy, health economics, health care access, delivery and quality of health services and their impact population and public health. Current areas of research for faculty include:

- Health insurance policy and its impact on health outcomes
- Quality of and access to care
- Policy change implications

### Health Outcomes Research

The health outcomes research concentration focuses on research about the design and evaluation of services, medications, devices and diagnostics that optimize health outcomes. SLUCOR areas of research:

- Health Data Science
- Cardiology
- Diabetes
- Health care quality

## Careers

In a recent alumni survey, 96% of graduates in public health studies stated they found a job in their field before graduation, or within six months of graduation. Graduates go on to work as academics in universities and researchers at medical centers, government, non-governmental health agencies or community-based organizations.

## Admission Requirements

This program is designed for individuals who already hold a master's degree in public health or a related field. The following criteria guide admission decisions.

- Evidence of exceptional intellectual ability, analytical and writing skills necessary to complete the doctoral program requirements.
- Evidence of interest in an area of research and commitment to pursue it through the completion of a dissertation research project.
- Presence of a willing and suitable faculty mentor in one of the concentration research areas.
- A minimum 3.50 GPA in graduate work and scored at least at the 50th percentiles for GRE verbal and/or quantitative reasoning.

## Application Requirements

- Application form and fee
- Transcript(s)
- Three letters of recommendation
- GRE scores
- Résumé or CV
- Professional goal statement

## Requirements for International Students

All admission policies and requirements for domestic students apply to international students along with the following:

- Demonstrate English Language Proficiency (<http://catalog.slu.edu/academic-policies/office-admission/undergraduate/english-language-proficiency>)
- Proof of financial support must include:
  - A letter of financial support from the person(s) or sponsoring agency funding the time at Saint Louis University
  - A letter from the sponsor's bank verifying that the funds are available and will be so for the duration of study at the University
- 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, 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.

## Application and Assistantship Deadlines

All students are required to submit an application, even students currently enrolled in other programs at Saint Louis University. The Ph.D. program only accepts applications for the fall semester.

The application deadline is January 15. Assistantships will be considered for top candidates.

## Review Process

All admission decisions will be finalized by the end of March.

## Assistantships

The doctoral program in public health has a limited number of graduate research assistantships, which are designed to allow students to work closely with a mentor on a research project. Assistantships are typically awarded for two years and provide a stipend, student health insurance and tuition waiver (up to 21 credits annually). Students will be informed about the terms and length of awards at the time acceptance to the program. Additional funding is either provided through undergraduate teaching assistantships or faculty research funded projects.

For more information, visit the student financial services office online at <http://finaid.slu.edu>.

## Scholarships and Financial Aid

The College for Public Health and Social Justice offers several ways to help finance graduate education. Opportunities include a limited number of merit-based scholarships and graduate research assistantships.

Awards are made to applicants with the highest combinations of GPAs and test scores who complete their applications by the priority deadlines.

For more information, visit the student financial services office online at <http://finaid.slu.edu>.

## Accreditation

The College for Public Health and Social Justice is fully accredited by the Council on Education for Public Health (CEPH).

Most recent CEPH Self-Study - August 2017

Self-Study (<https://www.slu.edu>)

## Learning Outcomes

SLU's Ph.D. program in Public Health Sciences continues to improve its curriculum to match the skills and competencies graduates should have. The overall Ph.D. competencies are listed below and additional competencies are described within the concentration areas.

### Domain 1: Critical Thinking

Critically evaluate, integrate and challenge existing scientific knowledge. Assess gaps in research to develop research questions.

### Domain 2: Analytical Skills

Plan, design and conduct research studies. Interpret the results using inferential statistical methods and methods of qualitative data analysis.

### Domain 3: Communication

Communicate clearly and effectively about scientific information for diverse audiences through scientific publications, grant applications, teaching/ training, etc. Develop partnerships in community, clinic, academic, and/or governmental settings to conduct research projects collaboratively.

### Domain 4: Management and Leadership

Apply leadership and management principles to assemble and cultivate effective teams and successful projects or studies, including the management of team members, budgets, and deliverables.

### Domain 5: Ethics and Professionalism

Adopt and apply ethical principles for public health research and decisions on social justice and equity in the global environment. Conduct research that requires Institutional Review Board approval.

### Domain 6: Community/Cultural Orientation

Evaluate the impact of cultural, structural, legal, political, and public health and social justice on health outcomes.

### Domain 7: Translation and Dissemination

Use innovative methods to communicate scientific findings and implications to diverse audiences, ensuring appropriate strategies

## Requirements

Code	Title	Credits
<b>Required Core Courses</b>		
BST 5100	Introduction to General Linear Modeling	3
PHS 6010	Design and Analysis in Public Health	3
PHS 6050	Science, Theory and Public Health	3
PHS 6040	Applied Research Skills I: Primary Data Collection	3

PHS 6060	Applied Research Skills II: Grant Writing	3
PHS 6900	Professional Development (as of 2019-20 3 credit hours taken during Fall Year 2)	3

**Concentration Courses**  
 Select 42 credits (Only 24 Credits are allowed from Advanced Standing-See Roadmaps) 42

**Dissertation Credits**  
 Select 12 credits 12

A prerequisite for entry into the program is a successfully completed graduate level introductory statistics course that has been taken in the past 5 years. Students without a prior graduate level public health introduction course or an MPH or MSPH degree may also be required to take PUBH 5010 Mission and Practice of Global Health.

Total Credits 72

### Continuation Standards

Students must maintain a cumulative grade point average (GPA) of 3.00 in all graduate/professional courses.

## Roadmap

Roadmaps are recommended semester-by-semester plans of study for programs and assume full-time enrollment unless otherwise noted.

Courses and milestones designated as critical (marked with !) must be completed in the semester listed to ensure a timely graduation. Transfer credit may change the roadmap.

This roadmap should not be used in the place of regular academic advising appointments. All students are encouraged to meet with their advisor/mentor each semester. Requirements, course availability and sequencing are subject to change.

### Behavioral Science and Health Education Concentration

Course	Title	Credits
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#### Year One

##### Fall

Participation in research symposia, conferences and journal clubs. Responsible Conduct of Research, CITI and IRB trainings

!PHS 6050	Science, Theory and Public Health	3
!BST 5100	Introduction to General Linear Modeling	3
!PUBH 5030	Methodological Approaches to Understanding Population Health	3
Credits		9

##### Spring

Participation in SLU Graduate Research Symposium, Participation in research symposia, conferences and journal clubs

!PHS 6040	Applied Research Skills I: Primary Data Collection	3
!PHS 6010	Design and Analysis in Public Health	3
!BSH 5450	Introduction to Qualitative Methods	3
! Quantitative Methods Course *		3
Credits		12

#### Year Two

##### Fall

Participation in Research Symposia (APHA) and Journal Clubs; Practice for Written Exam

!PHS 6060	Applied Research Skills II: Grant Writing	3
!PHS 6900	Professional Development	3
! Quantitative Methods Course *		3
! Quantitative Methods or Electives Course *		3
Credits		12

##### Spring

Participation in SLU Graduate Research Symposium, Other Professional Conferences; Take Written Comprehensive exam. If passed exam, may begin Dissertation Research and plan for Oral Exam

! Concentration Courses or Electives *		3
Electives or Advanced Standing Credits *		12
Credits		15

#### Year Three

##### Fall

Participation in Research Symposia, Professional Conferences. Take Written Comprehensive exam. If passed exam, may begin Dissertation Research and plan for Oral Exam

Electives or Advanced Standing Credits *		12
PHS 6990	Dissertation Research	3
Credits		15

##### Spring

Participation in Research Symposia, Professional Conferences. Plan or take Oral Exam

PHS 6990	Dissertation Research	3
Credits		3

#### Year Four

##### Fall

Participation in Research Symposia, Professional Conferences. Oral Exam

PHS 6990	Dissertation Research	3
Credits		3

##### Spring

Dissertation Defense

PHS 6990	Dissertation Research	3
Credits		3
Total Credits		72

**\* Concentration/Methods Courses**

Students must have a level of competency in core behavioral science and public health methods including:

- BSH 5400 - Assessment, Intervention Development, and Evaluation I
- BSH 5410 - Assessment, Intervention Development, and Evaluation II

Other quantitative courses should be taken in consultation with the mentor:

- Biostatistics, Outcomes Research and/or Health Data Courses (*multiple options each semester*)
- Epidemiology Courses (*multiple options each semester*)

**Elective Courses**

All electives must be taken at a graduate level and be pre-approved by the mentor.

**Dissertation Research Credits**

All 12 research credits must be taken at SLU and *only* after passing the written comprehensive exam.

**Advanced Standing Requirements No more than 24 hours of advanced standing** from previous master's work (except from SLU) can be substituted for requirements. Students will work with their mentor, program coordinator and doctoral director to review and petition for advanced standing. Students may not petition for advanced standing until second year.

**Biostatistics Concentration**

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
Participation in SLU Graduate Research symposium, Journal Clubs, Responsible Conduct of Research, CITI and IRB trainings		
!BST 5020	Theory of Biostatistics	3
!BST 5100	Introduction to General Linear Modeling	3
!PHS 6050	Science, Theory and Public Health	3
!PUBH 5030	Methodological Approaches to Understanding Population Health *	3
Credits		12
<b>Spring</b>		
Participation in SLU Graduate Research Symposium, CITI and IRB Trainings		
!BST 5025	Theory of Biostatistics II	3
BST 5030	Statistical Programming and Study Planning: SAS *	3
!PHS 6010	Design and Analysis in Public Health	3
!PHS 6040	Applied Research Skills I: Primary Data Collection	3
Credits		12
<b>Year Two</b>		
<b>Fall</b>		
Participation in Research Symposia, APHA and Professional Conferences, Journal Clubs; Practice for Written Exam		
!BST 5200	Survival Data Analysis	3
!BST 5210	Categorical Data Analysis	3
!BST 5400	Applied Data Management	3
!PHS 6060	Applied Research Skills II: Grant Writing	3

!PHS 6900	Professional Development *	3
Credits		15
<b>Spring</b>		
Participation in SLU Graduate Research Symposium, Other Professional Conferences, Journal Clubs; Practice for Written Exam		
!BST 5220	Multilevel and Longitudinal Data Analysis	3
! Concentration/Methods Courses or Electives or Advanced Standing Credits *		6
Credits		9
<b>Year Three</b>		
<b>Fall</b>		
Participation in Symposia and Other Professional Conferences; Take Written Comprehensive exam. If passed exam, may begin Dissertation Research and plan for Oral Exam		
! Concentration/Methods Courses or Electives or Advanced Standing Credits *		12
PHS 6990	Dissertation Research *	3
Credits		15
<b>Spring</b>		
Participation in Symposia and Other Professional Conferences; Plan Oral Exam		
PHS 6990	Dissertation Research	3
Credits		3
<b>Year Four</b>		
<b>Fall</b>		
Participation in Professional Conferences; Dissertation Research. Take Oral Exam		
PHS 6990	Dissertation Research	3
Credits		3
<b>Spring</b>		
Participation in Professional Conferences; Dissertation Research (if not yet complete); Plan for Dissertation Defense		
PHS 6990	Dissertation Research *	3
Credits		3
Total Credits		72

**\* Program Notes**

A prerequisite for entry into the program is a successfully completed graduate level introductory statistics course that has been taken in the past 5 years. Students without a prior graduate level public health introduction course or an MPH or MSPH degree may also be required to take PUBH 5010 Mission and Practice of Global Health.

**Concentration/Methods Courses**

Course Options should be discussed with and approved by mentor, including, but not limited to: BST 5960 Capstone in Biostatistics, PSY 6600 Structural Equations Modeling, ORES 5420 Clinical Trials Design and Analysis, ORES 5430 Outcomes Measurement, and ORES 5400 Pharmacoeconomics.

**Elective Courses**

All electives must be taken at a graduate level and be pre-approved by the mentor.

**Dissertation Research Credits**

All 12 research credits must be taken at SLU and *only* after passing the written comprehensive exam.

**Advanced Standing Requirements**

**No more than 24 hours of advanced standing from previous master's work** (except from SLU) can be substituted for requirements. Students will work with their mentor, program coordinator and doctoral director to review and petition for advanced standing. Students may not petition for advanced standing until second year.

**Epidemiology Concentration**

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
Participation in Research Symposia and Journal Clubs, Responsible Conduct of Research, CITI and IRB trainings		
!BST 5100	Introduction to General Linear Modeling	3
!PHS 6050	Science, Theory and Public Health	3
!PUBH 5030	Methodological Approaches to Understanding Population Health	3
Credits		9
<b>Spring</b>		
Participation in SLU Graduate Research Symposium, and Journal Clubs, Responsible Conduct of Research, CITI and IRB trainings		
!BST 5030	Statistical Programming and Study Planning: SAS	3
!EPI 5020	Epidemiology Methods II (! (or EPI 5960 Capstone))	3
!PHS 6010	Design and Analysis in Public Health	3
!PHS 6040	Applied Research Skills I: Primary Data Collection	3
Credits		12
<b>Year Two</b>		
<b>Fall</b>		
Participation in Research Symposia, APHA and Professional Conferences, Journal Clubs; Practice for Written Exam		
!BST 5200	Survival Data Analysis	3
!BST 5210	Categorical Data Analysis	3
!PHS 6060	Applied Research Skills II: Grant Writing	3
!PHS 6900	Professional Development	3
Credits		12

**Spring**

Participation in SLU Graduate Research Symposium, Other Professional Conferences, Journal Clubs; Practice for Written Exam		
!BST 5220	Multilevel and Longitudinal Data Analysis	3
!EPI 5960	Capstone in Epidemiology	3
Concentration/Methods Courses or Electives or Advanced Standing Credits *		9
Credits		15

**Year Three**

**Fall**

Participation in Symposia and Other Professional Conferences; Take Written Comprehensive exam. If passed exam, may begin Dissertation Research and plan for Oral Exam

Concentration Courses or Electives or Advanced Standing Credits *		12
PHS 6990	Dissertation Research	3
Credits		15

**Spring**

Participation in Symposia and Other Professional Conferences; Take Written Comprehensive exam. If passed exam, may begin Dissertation Research and Plan for Oral Exam

PHS 6990	Dissertation Research	3
Credits		3

**Year Four**

**Fall**

Participation in Professional Conferences; Dissertation Research. Take Oral Exam

PHS 6990	Dissertation Research	3
Credits		3

**Spring**

Year Four (Spring): (3-credits) Participation in Professional Conferences; Dissertation Research (if not yet complete); Plan for Dissertation Defense

PHS 6990	Dissertation Research	3
Credits		3

Total Credits		72
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**Concentration/Methods Courses**

Concentration Electives: Take at least **two courses** selected from EPI 5110 (Infectious Disease Epidemiology), EOH 5500 (Environmental and Occupational Epidemiology), EPI 5220 (Maternal and Child Health Epidemiology), EPI 5250 (Social Epidemiology), EPI 5120 (Chronic Disease Epidemiology), EPI 5270 (Cancer Epidemiology), or BST 5420 (Sampling Theory & Survey Design in Public Health)

**Elective Courses**

EPI Methods Electives: **One course** selected from EPI 5220 (Maternal and Child Health Epidemiology), EPI 5250 (Social Epidemiology), EPI 5120 (Chronic Disease Epidemiology), EPI 5270 (Cancer Epidemiology), or EOH 5500 (Environmental and Occupational Epidemiology)

**Dissertation Research Credits**

All 12 research credits must be taken at SLU and *only* after passing the written comprehensive exam.

**Advanced Standing Requirements**

**No more than 24 hours of advanced standing from previous master's work** (except from SLU) can be substituted for requirements.

Students will work with their mentor, program coordinator and doctoral director to review and petition for advanced standing.

Students may not petition for advanced standing until second year.

**Health Management & Policy Concentration**

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
Participation in Research Symposia and Journal Clubs, Responsible Conduct of Research, CITI and IRB trainings		
!BST 5100	Introduction to General Linear Modeling	3
!HMP 5000	Health Care Organization	3
!ORES 5160	Data Management	3
!PHS 6050	Science, Theory and Public Health	3
Credits		12
<b>Spring</b>		
Participation in SLU Graduate Research Symposium, and Journal Clubs, Responsible Conduct of Research, CITI and IRB trainings		
!BST 5030	Statistical Programming and Study Planning: SAS	3
!HMP 5200	Health Economics	3
!PHS 6010	Design and Analysis in Public Health	3
!PHS 6040	Applied Research Skills I: Primary Data Collection	3
!PUBH 5030	Methodological Approaches to Understanding Population Health	3
Credits		15

**Year Two****Fall**

Participation in Research Symposia, APHA and Professional Conferences, Journal Clubs; Practice for Written Exam

!HMP 5500	Health Policy	3
!PHS 6060	Applied Research Skills II: Grant Writing	3
!PHS 6900	Professional Development	3
!ORES 5430	Health Outcomes Measurement	3
Credits		12

**Spring**

Participation in SLU Graduate Research Symposium, Other Professional Conferences, Journal Clubs; Practice for Written Exam

!EPI 5020	Epidemiology Methods II	3
!ORES 5440	Comparative Effectiveness Research	3
Concentration Courses or Electives *		3
Credits		9

**Year Three****Fall**

Participation in Symposia and Other Professional Conferences; Plan Oral Exam

Concentration Courses or Electives or Advanced Standing Credits *		12
PHS 6990	Dissertation Research	3
Credits		15

**Spring**

Participation in Symposia and Other Professional Conferences; Plan Oral Exam

PHS 6990	Dissertation Research	3
Credits		3

**Year Four****Fall**

Participation in Professional Conferences; Dissertation Research. Take Oral Exam

PHS 6990	Dissertation Research	3
Credits		3

**Spring**

Participation in Professional Conferences; Dissertation Research (if not yet complete); Plan for Dissertation Defense

PHS 6990	Dissertation Research	3
Credits		3

Total Credits 72



**\* Program Notes**

A prerequisite for entry into the program is a successfully completed graduate level introductory statistics course that has been taken in the past 5 years. Students without a prior graduate level public health introduction course or an MPH or MSPH degree may also be required to take PUBH 5010 Mission and Practice of Global Health.

**Concentration/Methods Courses**

All courses should be decided upon in consultation with mentor.

**Elective Courses**

All electives must be taken at a graduate level and be pre-approved by the mentor.

**Dissertation Research Credits**

All 12 research credits must be taken at SLU and *only* after passing the written comprehensive exam.

**Advanced Standing Requirements**

**No more than 24 hours of advanced standing from previous master's**

**work** (except from SLU) can be substituted for requirements.

Students will work with their mentor, program coordinator and doctoral director to review and petition for advanced standing.

Students may not petition for advanced standing until second year.

**Health Outcomes Research Concentration**

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
Participation in Research Symposia and Journal Clubs, Responsible Conduct of Research, CITI and IRB trainings		
!BST 5100	Introduction to General Linear Modeling	3
!ORES 5300	Foundations of Outcomes Research I	3
!EPI 5000	Principles of Epidemiology	3
!PHS 6050	Science, Theory and Public Health	3
Credits		12
<b>Spring</b>		
Participation in SLU Graduate Research Symposium, and Journal Clubs, Responsible Conduct of Research, CITI and IRB trainings		
!BST 5030	Statistical Programming and Study Planning: SAS	3
!ORES 5210 or ORES 5260	Foundations of Medical Diagnosis and Treatment or Pharmacoepidemiology	3
!PHS 6010	Design and Analysis in Public Health	3
!PHS 6040	Applied Research Skills I: Primary Data Collection	3
Credits		12
<b>Year Two</b>		
<b>Fall</b>		
Participation in Research Symposia, APHA and Professional Conferences, Journal Clubs; Practice for Written Exam		
!BST 5200	Survival Data Analysis	3
!ORES 5430	Health Outcomes Measurement	3
!PHS 6060	Applied Research Skills II: Grant Writing	3
!PHS 6900	Professional Development	3
Credits		12

**Spring**

Participation in SLU Graduate Research Symposium, Other Professional Conferences, Journal Clubs; Practice for Written Exam

!EPI 5020	Epidemiology Methods II	3
!ORES 5210 or ORES 5260	Foundations of Medical Diagnosis and Treatment or Pharmacoepidemiology	3
Concentration Courses or Electives or Advanced Standing Credits *		6
Credits		12

**Year Three**

**Fall**

Participation in Symposia and Other Professional Conferences; Take Written Comprehensive exam. If passed exam, may begin Dissertation Research and Plan for Oral Exam

Concentration Courses or Electives or Advanced Standing Credits *		12
PHS 6990	Dissertation Research	3
Credits		15

**Spring**

Participation in Symposia and Other Professional Conferences; Plan Oral Exam

PHS 6990	Dissertation Research	3
Credits		3

**Year Four**

**Fall**

Participation in Professional Conferences; Dissertation Research. Take Oral Exam

PHS 6990	Dissertation Research	3
Credits		3

**Spring**

Participation in Professional Conferences; Dissertation Research, Plan for Dissertation Defense

PHS 6990	Dissertation Research	3
Credits		3
Total Credits		72

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**Concentration/Methods Courses**

All courses should be decided upon in consultation with your mentor. ORES 5400 Pharmacoeconomics (Spring), ORES 5420 Clinical Trials Design and Analysis (every other spring), ORES 5440 Comparative Effectiveness Research (alternate spring from ORES 5420), HDS 5210 Programming for Health Data Scientists (Fall), HDS 5310 Analytics and Statistical Programming (spring), HDS 5320 Inferential Modeling (summer), HDS 5330 Predictive Modeling and Machine Learning (spring).

**Elective Courses**

All electives must be taken at a graduate level and be pre-approved by the mentor.

**Dissertation Research Credits**

All 12 research credits must be taken at SLU and *only* after passing the written comprehensive exam.

**Advanced Standing Requirements**

**No more than 24 hours of advanced standing from previous master's work** (except from SLU) can be substituted for requirements.

Students will work with their mentor, program coordinator and doctoral director to review and petition for advanced standing.

Students may not petition for advanced standing until second year.

## Contact Us

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Apply for Admission (<https://sophas.liaisoncas.com>)

For additional admission questions please contact:

Bernie Backer

Director of Graduate Recruitment and Admissions

(314) 977-8144