GEOSPATIAL HEALTH, POST-BACCALAUREATE CERTIFICATE

Saint Louis University's Geospatial Health Certificate is a 15-credit training program that provides students the public health and geographic information systems (GIS) coursework to identify and better understand the role that location has on health behaviors and outcomes. Students will develop skills in mapping, analyzing data and using spatial data to answer some of public health's most challenging problems. This certification is for graduate students from a variety of health and social science disciplines, working professionals seeking geospatial analysis skills and students taking a 'gap year.'

Curriculum Overview

SLU's Geospatial Health Certificate is a 15-credit program that includes core public health and GIS courses with a capstone course, Place and Health.

Fieldwork and Research Opportunities

Students will have opportunities to work with faculty and advisors focused on research projects in community- and government-based health care and public health settings.

Careers

Students who complete SLU's Geospatial Health Certificate will be well-positioned for jobs in data science, health planning and public health research and practice, as well as other fields that intersect with GIS, including hospital and health care administration and urban planning.

Admission Requirements

Applicants should have a bachelor's degree, preferably with a 3.00 grade point average. Applications are reviewed on a holistic and rolling basis. Applicants will apply through SOPHAS Express (https://sophasexpress.liaisoncas.com/applicant-ux/#/deeplink/programSearch/organization/5077527303125433344), the common application system for public health schools and programs.

Tuition

Tuition	Cost Per Credit
Graduate Tuition	$1,310

Additional charges may apply. Other resources are listed below:

Net Price Calculator (https://www.slu.edu/financial-aid/tuition-and-costs/calculator.php)

Information on Tuition and Fees (https://catalog.slu.edu/academic-policies/student-financial-services/tuition/)

Miscellaneous Fees (https://catalog.slu.edu/academic-policies/student-financial-services/fees/)

Information on Summer Tuition (https://catalog.slu.edu/academic-policies/student-financial-services/tuition-summer/)

Scholarships and Financial Aid

For more information about Saint Louis University scholarships and financial aid, please visit the Office of Student Financial Services online at www.slu.edu/financial-aid (https://www.slu.edu/financial-aid/).

Accreditation

Saint Louis University's College for Public Health and Social Justice is fully accredited by the Council on Education for Public Health (CEPH). To see our most recent accreditation documentation, please visit the College for Public Health and Social Justice website (https://www.slu.edu/public-health-social-justice/). (https://www.slu.edu/public-health-social-justice/about/accreditation.php)

Learning Outcomes

1. Graduates will be able to develop a final project consisting of finding data, compiling the data into a geodatabase, performing analysis, producing GIS output, and modeling lattice and spatial point data.
2. Graduates will be able to design, implement and present a health-focused GIS-based research project.
3. Graduates will be able to critically analyze research findings and health and social policies to better understand how to improve problem-solving and decision-making about health and community resources.

Requirements

Code	Title	Credits
GIS 5010	Introduction to Geographic Information Systems	3
SOC 5670	Spatial Demography − Applied Spatial Statistics	3
PUBH 5500	Place and Health	3
Elective		
Choose one of the following:		3
GIS 5030	Geospatial Data Management	
GIS 5080	Digital Cartography and Geovisualization	
GIS 5090	Introduction to Programming for GIS and Remote Sensing	
GIS 5092	Machine Learning for GIS and Remote Sensing	
Choose one of the following:		3
HMP 5000	Health Care Organization	
or PUBH 5050	Health Care Across the Life Course: From Policy to Practice	
EPI 5250	Social Epidemiology	
Total Credits		**15**

Program Notes

Alternatively, this certificate can be completed part-time over two years, taking one course per semester plus one course during the summer between Years 1 and 2.

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.

Course	Title	Credits
Year One		
Fall		
GIS 5010	Introduction to Geographic Information Systems	3
HMP 5000 or PUBH 5050 or EPI 5250	Health Care Organization or Health Care Across the Life Course: From Policy to Practice or Social Epidemiology	3
	Credits	**6**
Spring		
SOC 5670	Spatial Demography – Applied Spatial Statistics	3
PUBH 5500	Place and Health	3
GIS 5030 or GIS 5080 or GIS 5090 or GIS 5092	Geospatial Data Management or Digital Cartography and Geovisualization or Introduction to Programming for GIS and Remote Sensing or Machine Learning for GIS and Remote Sensing	3
	Credits	**9**
	Total Credits	**15**

Contact Us

Apply for Admission (https://sophas.liaisoncas.com/applicant-ux/#/deeplink/programSearch/organization/6425937835738032128)

For additional admission questions, please contact:
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