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 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 particularly 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, Health and Place.

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

For current SLU students, admission requirements will be the same as for the existing Master of Public Health (https://catalog.slu.edu/colleges-schools/public-health-social-justice/graduate-programs/public-health-mph/7_ga=2.91477080.397525369.1599588563-12929777971.1599588563/) program. For working professionals, we will not require the GRE, nor will there be prerequisites to begin the coursework. Applicants outside of the University who are non-M.P.H. or enrolled in a graduate program at Saint Louis University will apply through SOPHAS Express, the common application system for public health schools and programs. Applicants will be able to include this as part of their interest during their application process. Current and incoming students will inform the M.P.H. program coordinator and work with the faculty advisor.

Scholarships and Financial Aid

For more information about student loans, please 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).

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

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>GIS 5010</td>
<td>Introduction to Geographic Information Systems</td>
<td>3</td>
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<tr>
<td>SOC 5670</td>
<td>Spatial Demography: Applied Statistics for Spatial Data</td>
<td>3</td>
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<tr>
<td>PUBH XXXX</td>
<td>Place and Health</td>
<td>3</td>
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<tr>
<td>Elective</td>
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<td>GIS 5020</td>
<td>Intermediate Geographic Information Systems</td>
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<tr>
<td>HDS 5330</td>
<td>Predictive Modeling and Machine Learning</td>
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<tr>
<td>HMP 5000</td>
<td>Health Care Organization</td>
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<tr>
<td>or PUBH 505</td>
<td>Health Care Across the Life Course: From Policy to Practice</td>
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<tr>
<td>EPI 5250</td>
<td>Social Epidemiology</td>
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<td>Total Credits</td>
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Program Notes

Alternatively, this certificate can be completed part-time over two years, taking one course per semester plus one course during the summer in-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.
### Year One

#### Fall

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<td>GIS 5010</td>
<td>Introduction to Geographic Information Systems</td>
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<tr>
<td>HMP 5000 or PUBH 5050 or EPI 5250</td>
<td>Health Care Organization or Health Care Across the Life Course: From Policy to Practice or Social Epidemiology</td>
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#### Spring

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<td>SOC 5670</td>
<td>Spatial Demography: Applied Statistics for Spatial Data</td>
<td>3</td>
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<tr>
<td>PUBH XXXX</td>
<td>Place and Health</td>
<td>3</td>
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<tr>
<td>GIS 5020 or HDS 5330</td>
<td>Intermediate Geographic Information Systems or Predictive Modeling and Machine Learning</td>
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### Contact Us

Apply for Admission ([https://sophas.liaisoncas.com](https://sophas.liaisoncas.com))

For additional admission questions please contact:
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