SPATIAL ANALYSIS FOR PUBLIC HEALTH

OVERVIEW
Please note: this program can ONLY be completed via fully online courses.
The Johns Hopkins Bloomberg School of Public Health offers fully online, part-time master's degree and certificate programs, designed for working professionals. Our Online Programs for Applied Learning (https://www.jhsph.edu/academics/online-programs-and-learning/online-programs-for-applied-learning/) (OPAL) focus on emergent industry sectors that have a resounding need for highly skilled professionals, with one of these sectors being Global Health.

Spatial analysis is an emerging field with applications evolving that are vast and paramount, impacting public health at the local and global level. The carefully sequenced courses of the certificate program in Spatial Analysis for Public Health introduce and reinforce a unifying comprehensive spatial science paradigm, to include components of Spatial Data, GIS and Spatial Statistics.

EDUCATIONAL OBJECTIVES
Upon completion of the certificate program in Spatial Analysis for Public Health the individual will be able to:

1. Synthesize how geography affects public health;
2. Obtain and transfer information from spatial data technologies into a database appropriate for mapping;
3. Utilize a geographic information system to map and spatially integrate public health related databases;
4. Analyze maps using tools from the field of spatial statistics to describe and interpret distributions of health outcomes in a population;
5. Design and implement a spatial analysis protocol for addressing a public health problem.

LinkedIn Group
We have established a LinkedIn group for each of the OPAL program areas in order to strengthen connections between current students, faculty, and alumni of OPAL programs, as well as to facilitate student-to-student peer networking.

Participation is voluntary, but we encourage you to join this professional networking community.


JHU OpenCourseWare
JHSPH OpenCourseWare makes JHSPH course materials used in the teaching of actual courses freely and openly available on the Web. OCW can be used to supplement learning on a particular topic, or provide background material. You are free to review the information on an OpenCourseWare Website (https://ocw.jhsph.edu/) at your own pace, free of charge.

For a brush up on statistical skills:

• Introduction to Biostatistics (http://ocw.jhsph.edu/index.cfm/go/viewCourse/course/introbiostats/coursePage/index/)
• Statistical Reasoning I (http://ocw.jhsph.edu/index.cfm/go/viewCourse/course/StatisticalReasoning1/coursePage/index/)
• Methods in Biostatistics I (http://ocw.jhsph.edu/index.cfm/go/viewCourse/course/MethodsInBiostatistics1/coursePage/index/)

For a general introduction to the field of health policy and public health:

• Introduction to Health Policy (http://ocw.jhsph.edu/index.cfm/go/viewCourse/course/IntroHealthPolicy/coursePage/index/)
• Introduction to Methods for Health Services Research and Evaluation (http://ocw.jhsph.edu/index.cfm/go/viewCourse/course/HSRE/coursePage/index/)
• JHSPH Faculty Interviews (http://ocw.jhsph.edu/index.cfm/go/viewCourse/course/facultyinterviews/coursePage/index/)
• Ethical Issues in Public Health (http://ocw.jhsph.edu/index.cfm/go/viewCourse/course/EthicalIssuesPublicHealth/coursePage/index/)

Additional options are available through the Open Education Global (https://www.oeglobal.org/), including courses on

• Democracy in America,
• Introduction to American Politics, and
• Introduction to the American Political Process.

Certificate in Spatial Analysis Contact Information
Certificate Program Advisers
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For Program-wide Issues
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Director, Online Programs for Applied Learning (OPAL)
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Complete information about applying to the certificate program is available on the certificate program page (https://www.jhsph.edu/academics/certificate-programs/certificates-open-to-non-degree-students-only/spatial-analysis-for-public-health.html) on the JHSPH website.

Program Requirements
Students should follow the plan outlined below if they wish to complete the Certificate program in one year. Courses can be taken at a slower pace if needed, so long as course prerequisites are met. Students should check the course directory (http://www.jhsph.edu/courses/) to confirm when the courses are offered for students in OPAL programs.
The certificate program requires a minimum of 18 term credits and a minimum grade point average (GPA) of 2.75. Students must earn a minimum grade on a set of required program-specific core courses: “Pass” for courses offered only on a pass/fail basis; “C” or higher for courses offered for letter grading. The certificate program length is flexible; it can be completed in as little as one year, and must be completed within three years.

### Course of Study

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
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<td><strong>First Term</strong></td>
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<td>PH.550.860</td>
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<td>Spatial Data Technologies for Mapping</td>
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<td><strong>Third Term</strong></td>
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<td>Applied Spatial Statistics</td>
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<td><strong>Fourth Term</strong></td>
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<td><strong>Total Credits</strong></td>
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### Notification of Certificate Program Completion

Students in OPAL certificate programs must complete and submit the Notification of Certificate Program Completion (https://e-catalogue.jhu.edu/public-health/certificates/Notification_of_Certificate_Program_Completion6-4-2019.pdf) form to the OPAL program office before the end of the add/drop period of the term of your last certificate course; certificate program completions cannot be processed retroactively.

It is preferable to complete the form electronically. Send the completed form to the OPAL program office as an email attachment. Certificates will be ordered for students approximately one month after the end of the term in the summer, spring, and fall. A template form for each of the OPAL certificates can be found in the Online Library of the OPAL Student Resources site in CoursePlus. The blank form can be found on the School’s website as well. Please send the completed Notification form to OPAL-Office@jhu.edu by the deadline noted above. Be sure to complete all personal information on the first page, and the year, term and grade for all completed courses. If needed, we can update the pending grades when they are submitted at the end of the term.