

GEOGRAPHICAL INFORMATION SYSTEMS & SPATIAL ANALYSIS, CERTIFICATE

The Certificate in Geographical Information Systems (GIS) and Spatial Analysis is aimed at graduate students desiring knowledge of how to apply advanced techniques of GIS and spatial analysis to issues of design, planning, urban policy, the environment, and other related fields.

For more information: <https://www.design.upenn.edu/all-degrees-certificates/gis-and-spatial-analysis-certificate> (<https://www.design.upenn.edu/all-degrees-certificates/gis-and-spatial-analysis-certificate/>)

Curriculum

A total of 5 course units are required to complete the Certificate program.

Code	Title	Course Units
Required Courses ¹		
<i>Introductory Courses</i> ²		
Select one of the following:		1
CPLN 5030	Modeling Geographical Objects	
CPLN 6320	Modeling Geographic Space	
<i>Applications and Advanced Courses</i>		
Select three of the following:		3
CPLN 5920	Public Policy Analytics	
CPLN 6320	Modeling Geographic Space	
CPLN 6710	Spatial Statistics and Data Analysis	
CPLN 6750	Land Use and Environmental Modeling	
<i>GIS Capstone Project</i>		
CPLN 6800		1
Total Course Units		5

1

Substitutions must be approved in writing by the Director and submitted to the Weitzman School of Design Office of Student Services.

2

Students who have previously taken an introductory GIS course in another department (e.g. URBS 5300, SWRK 7300, or HSPV 7410) may use it to meet this requirement subject to the permission of the Certificate director.

3

Students who have completed CPLN 5030 may take CPLN 6320 as an advanced course.

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2022 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.
