

The below curriculum outlines the requirements of the GIS certificate program. Exceptions must be approved by the GIS certificate program coordinator.

<b>Course</b>	<b>Title</b>	<b>Credits</b>
<b>Required Core (choose one)</b>		<b>3.0</b>
PAF 571	Geographic Information Systems (GIS) and Analysis	
PUP 576	GIS Workshop for Planners	
<b>Other Requirement (choose two)</b>		<b>6.0</b>
ABS 485	GIS in Natural Resources	
GIS 571	Spatial Stats for Geography and Planning	
GIS 521	GIS Programming	
GIS 561	Fundamentals of Spatial Optimization	
GIS 562	Location Analysis and Modeling	
GIS 591	Data Mining and Data Driven Geography	
GIS 563	Local Statistical Modeling	
<b>Approved graduate elective</b>		<b>3.0</b>
<b>Approved graduate elective</b>		<b>3.0</b>
<b>Total credits required for GIS certificate:</b>		<b>15.0</b>

### Course Requirements

A maximum of 6.0 credits of 400-level elective coursework may be included on the plan of study but must be approved by the GIS certificate program coordinator.

### Pre-admission Credit

No more than 6.0 credits taken prior to admission into the GIS certificate program may be included on the plan of study.

### Approved Electives

Refer to the list of pre-approved electives while planning your coursework. Some courses are offered outside of SGSUP and therefore are subject to change. View the [Schedule of Classes](#) for the most current course offerings. Courses listed in the Other Requirement section may also be taken as electives. Other courses may be taken, but must be approved by the department if they are not on the Approved Electives list. Submit the *Petition for Transfer or Interdisciplinary Elective Courses* form to request approval.

Graduate Student Forms are available at

<https://sgsup.asu.edu/student-life/graduate-resources/graduate-student-forms>

Approved Elective Course list is available at

<https://sgsup.asu.edu/student-life/graduate-resources/plans-study-and-graduate-programs-handbook>