

Geographic Information Systems PSM

COLLEGE OF LIBERAL ARTS

Learn more about the Professional Science Master's in Geographic Information Systems.

About the Program

The Professional Science Master's (PSM) degree in Geographic Information Systems (GIS) combines advanced training in GIS core skills with professional development and business ethics to prepare students to enter the GIS workforce. Our courses introduce students to a variety of cutting-edge spatial analysis technology and mapping software. The Department of Geography, Environment and Urban Studies faculty have expertise in a range of GIS applications, including business, environment, geovisualization, health, location analysis, remote sensing and urban. The program curriculum is informed by an advisory board of industry professionals and incorporates real-world experiences through project-based learning and an internship capstone requirement. Graduates are well prepared to pursue certification as a GIS professional (GISP).

Time Limit for Degree Completion: 3 years

Campus Location: Main

Full-Time/Part-Time Status: Students complete the degree program through classes offered after 4:30 p.m. The degree program can be completed on a full- or part-time basis. Full-time students can complete the program in one calendar year. Part-time students are expected to complete the program in 3 years.

Affiliation(s): The program is an affiliated Professional Science Master's program.

Areas of Specialization: The program specializes in Geographic Information Systems and offers coursework in cartography, geospatial programming, geovisualization, spatial database design, spatial statistics, web mapping, and several applied areas. The Department offers students the opportunity to learn in research laboratory settings equipped with the latest technologies.

Job Prospects: The program trains a workforce that is highly competent to meet the challenges faced by public, regulated and private sector industries and also adaptable to the future needs of the industries. It provides access to a professional career, requiring both technical skills and professional development training in areas related to business, ethics and policy. The program enables students to match their specialized training in GIS with substantive fields that utilize such training, including criminology, epidemiology, national security, natural and environmental sciences, and urban and regional planning.

Non-Matriculated Student Policy: Non-matriculated students may take up to 9 credits prior to matriculation. If accepted into the program, these credits may be applied toward the degree.

Funding Opportunities: Typically, the Department does not provide financial assistance to students at the master's level. Teaching and Research Assistantships are reserved for PhD students.

Admission Requirements and Deadlines

Application Deadline:

Fall:

- March 1 – Application Deadline
- July 1 – Late Application Deadline

Spring:

- November 1 – Application Deadline
- December 7 – Late Application Deadline

Summer:

- April 15 – Application Deadline

Applications are processed as they are received. Late applications may be considered for admission.

APPLY ONLINE to this graduate program.

Letters of Reference:

Number Required: 3

From Whom: Letters of recommendation should be obtained from college/university faculty members or professional references familiar with the applicant's academic competence.

Coursework Required for Admission Consideration: No specific coursework is required as applicants are drawn from a variety of disciplines.

Bachelor's Degree in Discipline/Related Discipline: A baccalaureate degree in any field is appropriate. An undergraduate GPA of 3.0 or an undergraduate GPA of 2.5 with 2 to 4 years of relevant professional experience is preferred. Transcripts can be submitted to psmgis@temple.edu.

Statement of Goals: In approximately 500 to 1,000 words, share why you are interested in this program, your research and academic goals, future career goals, academic and research achievements, and any other information that you believe will be helpful in evaluating your application.

Standardized Test Scores:

Applicants who earned their baccalaureate degree from an institution where the language of instruction was other than English, with the exception of those who subsequently earned a master's degree at a U.S. institution, must report scores for a standardized test of English that meet these minimums:

- TOEFL iBT: 88
- IELTS Academic: 6.5
- PTE Academic: 60

Resume: Current resume required.

Transfer Credit: Applicable graduate coursework may be transferred from outside the University, provided that the credits were obtained no more than five years prior to the student's matriculation at Temple and the grades are "B" or better. The credits must be equivalent to coursework offered at Temple. The maximum number of credits a student may transfer is 6.

Program Requirements

General Program Requirements:

Number of Credits Required Beyond the Baccalaureate: 30

Required Courses:

Code	Title	Credit Hours
Core Courses		
GUS 5031	GIS Programming	3
GUS 5162	Advanced Statistics for Urban Applications	3
GUS 8065	Cartographic Design	3
GUS 8067	Spatial Database Design	3
GUS 8069	GIS Ethics and Professional Practice	3
Electives ¹		12
Capstone Course		
GUS 9187	GIS Capstone	3
Total Credit Hours		30

¹ In consultation with the faculty advisor, students select four electives from a wide array of courses in cartography, GIS, remote sensing, and spatial analysis. It is recommended that students who are interested in advanced programming take GUS 8066 Application Development for Geographic Information Systems as one of their four electives.

Culminating Event:

GIS Capstone:

The GIS Capstone course (GUS 9187) provides an experiential and industry-relevant learning experience for students matriculated in the GIS Professional Science Master's program at Temple. Students engage in a structured internship experience (140 hours during the term) identified with the guidance of PSM faculty at Temple and a prospective employer. The student completes a GIS-oriented project during the internship that draws on the GIS science and professional skills developed through the PSM curriculum.

Accelerated Programs

Undergraduate students may opt to pursue an accelerated +1 program, enabling them to complete both a bachelor's degree and master's degree in less time than the traditional route.

The accelerated pathway for the Geographic Information Systems PSM is available to qualified undergraduate students. Students pursuing a Geography and Urban Studies BA or an Environmental Studies BA may use two graduate level GUS courses to satisfy undergraduate requirements.

Cohort Code: XPSMGIS

Minimum Cumulative GPA: 3.25

Graduate Courses Approved to Count for Both Undergraduate and Graduate Degrees

Code	Title	Credit Hours
GUS 5031	GIS Programming	3
GUS 8067	Spatial Database Design	3
Two GUS 5000+ electives		6

¹ Students pursuing a Geography and Urban Studies BA or an Environmental Studies BA may use two graduate level GUS courses to satisfy major requirements.

Suggested Academic Plan

Course	Title	Credit Hours
Year 3		
Fall		
One GUS 5000+ elective		3
Credit Hours		3
Spring		
One GUS 5000+ elective		3
Credit Hours		3
Year 4		
Fall		
GUS 8067	Spatial Database Design	3
Credit Hours		3
Spring		
GUS 5031	GIS Programming	3
Credit Hours		3
Total Credit Hours		12

Admissions Criteria

Candidates for the +1 program must:

- have a minimum 3.25 cumulative GPA in at least 60 credits or more towards their undergraduate degree and, if a junior status entrant, must be able to complete their baccalaureate degree within two years of program entry; if a senior status entrant, must be able to complete their undergraduate degree within one year of program entry.
- have passed with a B or higher:
 - GUS 3062
 - GUS 3161
- provide a Statement of Goals (500 to 1,000 words).
- have two letters of support from full-time faculty who can vouch for the student's readiness for graduate work.
- have approval from the student's academic advisor that the student can use the 12 graduate credits towards their undergraduate degree for non-major electives.
- be able to complete the graduate degree in one additional year.

Application: <https://apply.temple.edu/CLA/Pages/Welcome.aspx>

Contact Information

Chiara Veia
 chiara.vea@temple.edu

Learn more about the +1 programs in the College of Liberal Arts.

Contacts

Program Web Address:

<https://www.temple.edu/academics/degree-programs/geographic-information-systems-psm-la-gis-psm>

Department Information:

Dept. of Geography, Environment, and Urban Studies
308 Gladfelter Hall
1115 W. Polett Walk
Philadelphia, PA 19122-6089
psmgis@temple.edu
215-204-7692

Submission Address for Application Materials:

<https://apply.temple.edu/CLA/>

psmgis@temple.edu

Department Contacts:

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