

# GEOGRAPHIC INFORMATION SCIENCE GRADUATE PATHWAY (BEGINNING FALL 2027)

Saint Louis University's Geographic Information Science Graduate Pathway program prepares students to enter the next semester of the Master of Science in Geographic Information Science (<https://catalog.slu.edu/colleges-schools/science-engineering/earth-environmental-geospatial-sciences/geographic-information-science-ms/>) or Geoinformatics and Geospatial Analytics, Ph.D. (<https://catalog.slu.edu/colleges-schools/science-engineering/earth-environmental-geospatial-sciences/geoinformatics-geospatial-analytics-phd/>) degree program. Upon successfully completing the graduate pathway program and meeting SLU's requirements for matriculation, students may enter the next semester of graduate study.

## Program Entry Requirements

### One-Semester (Accelerated) Pathway

- Undergraduate degree or equivalent with 2.5 GPA on a 4.0 scale
- Professional goal statement
- Résumé
- Language requirement (one of the following):
  - TOEFL 75 (17 in reading and writing)
  - IELTS 6.0 (6.0 in reading and writing)
  - PTEA 50
  - Duolingo 105

### Two-Semester (Standard) Pathway

- Undergraduate degree or equivalent with 2.5 GPA on a 4.0 scale
- Professional goal statement
- Résumé
- Language requirement (one of the following):
  - TOEFL 70 (13 in reading and writing)
  - IELTS 6.0 (5.5 in reading and writing)
  - PTEA 48
  - Duolingo 95
  - Completion of Academic English Level 4

## Learning Outcomes

1. Students will be able to execute a variety of verbal tasks in academic settings using English that can be understood by those unaccustomed to non-native speakers.
2. Students will be able to execute a variety of written tasks in academic settings using English that can be understood by those unaccustomed to non-native writers.
3. Students will be able to apply a process-driven approach to completing verbal and written academic assignments in multiple disciplines and modes.
4. Students will be able to deploy reflective and self-regulated learning strategies.

## Requirements

### One-Semester (Accelerated) Pathway

| Code                 | Title                                                                  | Credits   |
|----------------------|------------------------------------------------------------------------|-----------|
| GIS 5010             | Introduction to Geographic Information Systems <sup>1</sup>            | 3         |
| or GIS 5090          | Introduction to Programming for GIS and Remote Sensing                 |           |
| GIS 5040             | Introduction to Remote Sensing (or GIS Required Course)                | 3         |
| EAS 4200             | Synoptic Meteorology I                                                 | 3         |
| EAP 4250             | Advanced Listening and Speaking for International Graduate Students II | 2         |
| <b>Total Credits</b> |                                                                        | <b>11</b> |

### Two-Semester (Standard) Pathway

| Code                 | Title                                                                           | Credits   |
|----------------------|---------------------------------------------------------------------------------|-----------|
| GIS 5010             | Introduction to Geographic Information Systems <sup>1</sup>                     | 3         |
| or GIS 5090          | Introduction to Programming for GIS and Remote Sensing                          |           |
| GIS 5030             | Geospatial Data Management                                                      | 3         |
| GIS 5040             | Introduction to Remote Sensing (or GIS Required Course)                         | 3         |
| GIS 5080             | Digital Cartography and Geovisualization (or GIS Required Course)               | 3         |
| EAP 4100             | Introduction to Reading and Writing for International Graduate Students I       | 3         |
| EAP 4150             | Listening and Speaking for International Graduate Students I                    | 2         |
| EAP 4200             | Advanced Reading and Writing as Researchers for International Graduate Students | 3         |
| EAP 4250             | Advanced Listening and Speaking for International Graduate Students II          | 2         |
| <b>Total Credits</b> |                                                                                 | <b>22</b> |

<sup>1</sup> Students pursuing the Geoinformatics and Geospatial Analytics, Ph.D. program will take GIS 5090 Introduction to Programming for GIS and Remote Sensing (3 cr) instead of GIS 5010 Introduction to Geographic Information Systems (3 cr).

## Continuation Standards

- Minimum 3.0 cumulative SLU GPA
- Grade of "B-" or better in all courses counting toward the degree
- No C-/D/F/W/I/P/NP/S/U grades

## Progression Requirements

- Minimum 3.0 cumulative SLU GPA
- Grade of "B-" or better in all courses counting toward the degree
- No C-/D/F/W/I/P/NP/S/U grades
- Successful completion of program portfolio

## Roadmap

This roadmap is just one example of a semester-by-semester plan of study for this program. There are other plans students can and do take. The plan of study for each particular student is established in consultation with each student's academic advisor; *this roadmap does not replace academic advising appointments.*

*Roadmap notes:*

- This Roadmap assumes full-time enrollment unless otherwise noted.
- Courses/Milestones marked with an "!" are critical and must be completed in the semester listed in the Roadmap to ensure a timely graduation.
- Course availability and sequencing are subject to change.

## One-semester (Accelerated) Pathway

| Course                  | Title                                                                                                       | Credits   |
|-------------------------|-------------------------------------------------------------------------------------------------------------|-----------|
| <b>Year One</b>         |                                                                                                             |           |
| <b>Fall</b>             |                                                                                                             |           |
| EAP 4200                | Advanced Reading and Writing as Researchers for International Graduate Students                             | 3         |
| EAP 4250                | Advanced Listening and Speaking for International Graduate Students II                                      | 2         |
| GIS 5010<br>or GIS 5090 | Introduction to Geographic Information Systems<br>or Introduction to Programming for GIS and Remote Sensing | 3         |
| GIS 5040                | Introduction to Remote Sensing (or GIS Required Course)                                                     | 3         |
| <b>Credits</b>          |                                                                                                             | <b>11</b> |
| <b>Total Credits</b>    |                                                                                                             | <b>11</b> |

## Two-semester (Standard) Pathway

| Course                  | Title                                                                                                       | Credits   |
|-------------------------|-------------------------------------------------------------------------------------------------------------|-----------|
| <b>Year One</b>         |                                                                                                             |           |
| <b>Fall</b>             |                                                                                                             |           |
| EAP 4100                | Introduction to Reading and Writing for International Graduate Students I                                   | 3         |
| EAP 4150                | Listening and Speaking for International Graduate Students I                                                | 2         |
| GIS 5010<br>or GIS 5090 | Introduction to Geographic Information Systems<br>or Introduction to Programming for GIS and Remote Sensing | 3         |
| GIS 5040                | Introduction to Remote Sensing (or GIS Required Course)                                                     | 3         |
| <b>Credits</b>          |                                                                                                             | <b>11</b> |
| <b>Spring</b>           |                                                                                                             |           |
| EAP 4200                | Advanced Reading and Writing as Researchers for International Graduate Students                             | 3         |
| EAP 4250                | Advanced Listening and Speaking for International Graduate Students II                                      | 2         |
| GIS 5030                | Geospatial Data Management                                                                                  | 3         |

|                      |                                                                      |           |
|----------------------|----------------------------------------------------------------------|-----------|
| GIS 5080             | Digital Cartography and Geovisualization<br>(or GIS Required Course) | 3         |
| <b>Credits</b>       |                                                                      | <b>11</b> |
| <b>Total Credits</b> |                                                                      | <b>22</b> |