MASTER OF SCIENCE IN GEOGRAPHIC INFORMATION SCIENCE

Admission to the Program
For admission to the graduate program, a student must meet the general University requirements as stated in the Bulletin. An applicant must have a baccalaureate degree from an accredited institution with a GPA of 3.25 or better in geography or a related discipline, with emphasis or experience in spatial data analysis, and have earned a grade of B or better in GEOG 603, or equivalent.

Please submit applications through Cal State Apply (https://www2.calstate.edu/apply/). Transcripts, a Statement of Purpose, and two letters of recommendation are required. Personal interviews with graduate advisors and the appropriate department faculty are recommended.

Program Learning Outcomes
a. Demonstrate skills appropriate to master's-level work in Geography.
b. Understand the use of appropriate methods of inquiry in GIScience research.
c. Quantitatively analyze a geographic research question.
d. Develop and formulate research questions from literature or internship experience.
e. Use skills and knowledge to answer research questions through a thesis or research project.

Written English Proficiency Requirements
The University has a requirement for written English proficiency that is to be assessed at two different levels.

Level One
Written English proficiency will be assessed on the basis of the Statement of Purpose. Students who demonstrate a need for additional writing support will be required to take a graduate-level writing class.

Level Two
Satisfactory completion of GEOG 895 or GEOG 898.

Advancement to Candidacy
In addition to fulfilling all University requirements, students must complete the required curriculum outlined below. All graduate seminars and all courses used on the Advancement to Candidacy (ATC) with the exception of Geography 895 and 898 must be taken on a letter grade basis and have earned a B– or better. Not more than three units of Special Study (GEOG 899) and 1 unit of Special Study (GEOG 699) may be included on the ATC. Each student must consult with their graduate advisor regularly and design an individual program leading towards the culminating experience requirement (thesis or research paper). For advancement to candidacy, the student must select a culminating experience committee comprised of two or three members, at least two of whom must be full-time faculty in geography at SF State, and must present a research proposal to the department.

Geographic Information Science (M.S.)

Prerequisites as Needed (0-3 units)

Core Courses (24 units)

Culminating Experience (3 units)

Select one:

Upper-division courses offered by the department may be included with the approval of the graduate advisor. Depending on a student's background and/or objective, additional courses in geography or a related field may be required on advisement. Note: A maximum of 30% undergraduate-only courses may be used in a graduate program.
Comprehensive Oral Examination (GEOG 895)
A two-hour oral examination is required of all students using this option. One hour is devoted to the research topic (GEOG 895) and a second hour of comprehensive oral examination on the theory and applications of GIScience. The examination or either of its parts may be repeated only once. Students must have completed all coursework prior to taking the oral examination, which can be scheduled only during the fall and spring semesters. Examination guidelines are available from the graduate advisor.

Research Proposal
The department requires all graduate students to present a proposal of their research for culminating experience to faculty and peers within a semester of filing the Proposal for Culminating Experience. The object is to provide students with useful feedback in the critical developmental stage of the research experience. Students present a twenty-minute synopsis of their research ideas to faculty and fellow graduate students focusing particularly on linking the research to a broader theoretical framework and presenting a methodology design to achieve the stated objectives. This is followed by twenty minutes (maximum) for questions and comments. Proposal presentations are scheduled as needed.