



GEOGRAPHIC INFORMATION SCIENCE



Looking for a career that combines cutting-edge geospatial technologies with business management? Consider the Illinois Professional Science Master's (PSM) program in geographic information science (GIS). Geospatial technologies, ranging from GPS-enabled devices to satellite systems and imagery are an integral part of our interconnected world, and are applied in a wide range of industries including agriculture, healthcare, energy, and transportation.

PSM graduate students in GIS build a flexible, cross-disciplinary expertise around a strong GIS core, drawing upon the University of Illinois's renowned strengths in GIS, informatics, computer science, and related fields. PSM students will gain a firm foundation in GIS theory and applications, while acquiring business knowledge and professional skills. Additionally, the professional internship provides students with opportunities to apply their technical and business knowledge in an industrial/organizational setting.

Graduates will be prepared to apply their blended science and business education at companies that utilize GIS to enhance product sales, resource development, business efficiency, and service delivery. Many business functions rely on geospatial technologies, including:

- natural resource development
- marketing analysis
- site location analysis
- environmental risk assessment
- business intelligence operations
- logistics

The PSM's science core is complemented by a business curriculum that includes technology management, marketing, organizational management, entrepreneurship, process management, and more. A cross-disciplinary industry seminar series offers opportunities for personal interaction with industry and government leaders.

The program can be completed in 16 months of full-time study on the Urbana-Champaign campus, including required summer enrollment to complete the internship. A thesis is not required.

CAREER OPPORTUNITIES

- Energy and resource development
- Business and logistics planning
- Market analysis
- Location-based services

Faculty Coordinator

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Coordinated by the University of Illinois School of Earth, Society, and Environment in cooperation with the Graduate College.

ADMISSION REQUIREMENTS

- Bachelor's degree from a regionally accredited U.S. Institution, or a comparable degree from a recognized institution abroad,
- Grade point average of 3.0 or higher (4.0 scale) for the last 60 hours of undergraduate work and for any graduate work,
- Graduate Record Examination (GRE),
- Test of English as a Foreign Language (TOEFL) for non-native speakers of English, and
- Three (3) letters of recommendation.

SAMPLE PROGRAM OF STUDY

Year 1: Fall

Science Curriculum

GEOG 477 Introduction to Remote Sensing
GEOG 480 Principles of GIS
GEOG 595 Professional GIS Seminar

Business Curriculum

Two 2-credit hour courses in

- Business Fundamentals, and
- Management and Marketing

PSM 501 Industry Seminar I

*This is a **sample curriculum**; your courses will depend upon your individual interests and career plans.*

Year 1: Spring

Science Curriculum

GEOG 440 Business Applications of GIS
GEOG 479 CyberGIS
GEOG 595 Advanced Digital and Spatial Studies

Business Curriculum

Two 2-credit hour courses in

- Project Management, and
- Finance

PSM 502 Industry Seminar II

“Increasing demand for readily available, consistent, accurate, information and the widespread availability and use of advanced technologies offer great job opportunities for people with many different talents and educational backgrounds.”

--U.S. Geological Survey and U.S. Bureau of Labor Statistics

Summer Internship

PSM 555 PSM Internship

Year 2: Fall

Science Curriculum

GEOG 473 Digital Cartography and Map Design
GEOG 489 Programming for GIS
GEOG 595 GIS Project Management

Business Curriculum

One 2-credit hour course in Science and Regulatory Policy
PSM 503 Industry Seminar III

December Graduation

