

GEOSPATIAL INTELLIGENCE (ONLINE) (Z135)

Graduate Certificate Program
College: Behavioral and Social Sciences

ABSTRACT

The Graduate Certificate in Geospatial Intelligence (GC GEOINT) program provides workforce-focused technical training that gives graduates the skills and expertise to lead new initiatives in the rapidly shifting landscape of GEOINT applications, data collection systems, analytic methods, and mission support.

The GC GEOINT program will provide state-of-the-art training in the geospatial technologies (e.g., web mapping, mobile applications, geospatial programming), geographical knowledge (e.g., geostatistics, geospatial networks, spatial reasoning), and scientific methods to address issues of public administration and policy analysis; public safety; criminology; military intelligence; emergency response and preparedness; project and workflow management; environmental applications; urban studies and regional sciences; and transportation geography. Students are provided with knowledge and practical skills in geographic information science & technology (GIS&T), remote sensing, mapping and geo-visualization, computer programming to tackle geospatial intelligence problems such as pattern recognition and feature extraction, big geospatial computing, developing source-to-screen workflows, and communicating uncertainty to decision-makers. These skills range from project design, data collection and interoperability, software development, algorithm implementation, data-mining, analytic processing and management, visualizing results and reporting. Technical skills are closely intertwined with substantive topics in a range of applied geospatial intelligence contexts, from defense and homeland security to humanitarian response and emergency management.

The GC GEOINT program encompasses a 12-credit (4 units of 3-credit courses) course structure comprised of two core courses and two elective courses that can be taken on a flexible schedule.

FINANCIAL ASSISTANCE

Teaching Assistantships are offered depending on availability and students' qualifications.

CONTACT

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Courses: GEOG (<https://academiccatalog.umd.edu/graduate/courses/geog/>)

Relationships: Geographical Sciences (GEOG) (<https://academiccatalog.umd.edu/graduate/programs/geographical->

[sciences-geog/](https://academiccatalog.umd.edu/graduate/programs/geospatial-intelligence-gein/)) Geospatial Intelligence (GEIN) (<https://academiccatalog.umd.edu/graduate/programs/geospatial-intelligence-gein/>) Geospatial Intelligence (MPGI) (<https://academiccatalog.umd.edu/graduate/programs/geospatial-intelligence-mpgi/>) Geospatial Information Sciences (MPGS) (<https://academiccatalog.umd.edu/graduate/programs/geospatial-information-sciences-mpgs/>) Geospatial Information Sciences (Z035) (<https://academiccatalog.umd.edu/graduate/programs/geospatial-information-sciences-z035/>)

ADMISSIONS

GENERAL REQUIREMENTS

- Statement of Purpose
- Transcript(s)
- TOEFL/IELTS/PTE (international graduate students (<https://gradschool.umd.edu/admissions/english-language-proficiency-requirements/>))

PROGRAM-SPECIFIC REQUIREMENTS

- CV/Resume
- Supplementary Application (<https://gradschool.umd.edu/sites/gradschool.umd.edu/files/uploads/admissionsforms/umdsupplementaryapplicationgeinz109ginoz135.pdf>)

***Visa Eligibility:** This program is not eligible for I-20 or DS-2019 issuance by the University of Maryland.

APPLICATION DEADLINES

Type of Applicant	Fall Deadline	Spring Deadline	Summer Deadline
Domestic Applicants			
US Citizens and Permanent Residents	July 2, 2025	January 23, 2025	
	May 1, 2025 (priority for no GIS background)	November 15, 2024 (priority for no GIS background)	
International Applicants			
F (student) or J (exchange visitor) visas: A,E,G,H,I and L visas and immigrants	July 2, 2025	January 23, 2025	
	May 1, 2025 (priority for no GIS background)	November 15, 2024 (priority for no GIS background)	

Other Deadlines: Please visit the program website at <https://geospatial.umd.edu/education/master-science-geospatial-intelligence> (<https://geospatial.umd.edu/education/master-science-geospatial-intelligence/>)

REQUIREMENTS

- Geospatial Intelligence, Post-Baccalaureate Certificate (P.B.C.)
(<https://academiccatalog.umd.edu/graduate/programs/geospatial-intelligence-z135-online/geospatial-intelligence-pbc/>)