

GEOSPATIAL INTELLIGENCE APPLICATIONS POSTBACCALAUREATE CREDIT CERTIFICATE PROGRAM

Person-in-Charge	Greg Thomas
Program Code	GEOAPP
Campus(es)	World Campus

The postbaccalaureate certificate in Geospatial Intelligence Applications provides a foundation in geospatial intelligence thought and technology for the aspiring professional with little knowledge of the intelligence discipline, the geographic information sciences, or geospatial technologies. The program applies tools, methodologies, and tradecraft in the defense, law enforcement, civil security, and business domains while synergistically integrating geospatial information science and investigative analysis.

Effective Semester: Summer 2021
Expiration Semester: Summer 2026

Admission Requirements

Applicants apply for admission to the program via the Graduate School application for admission (<https://gradschool.psu.edu/graduate-admissions/how-to-apply/>). Requirements listed here are in addition to Graduate Council policies listed under GCAC-300 Admissions Policies (<https://gradschool.psu.edu/graduate-education-policies/>). International applicants may be required to satisfy an English proficiency requirement; see GCAC-305 Admission Requirements for International Students (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-300/gcac-305-admission-requirements-international-students/>) for more information.

Certificate Requirements

Requirements listed here are in addition to requirements listed in Graduate Council policy GCAC-212 Postbaccalaureate Credit Certificate Programs (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/gcac-212-postbaccalaureate-credit-certificate-programs/>).

All candidates must take 13 credits, which includes a 3-credit course in geographic fundamentals of geospatial intelligence, a 3-credit course in the nature of geographic information course, 6 credits of geospatial information science and technology courses, and a 1-credit capstone course.

Code	Title	Credits
Required Courses		
GEOG 479	Spatial Data Science for Cyber and Human Social Networks	3
or GEOG 480	Exploring Imagery and Elevation Data in GIS Applications	
GEOG 482	Making Maps That Matter With GIS	3
GEOG 483	Problem-Solving with GIS	3

or GEOG 850	Location Intelligence for Business	
GEOG 882	Geographic Foundations of Geospatial Intelligence	3
GEOG 594A	Culminating Experiences in Geospatial Intelligence (Capstone Course)	1

Total Credits 13

Courses

Graduate courses carry numbers from 500 to 699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

Learning Outcomes

- Demonstrate conduct in alignment with professional standards in interpersonal communication, mediation, and respect for diversity while recognizing appropriate team roles in professional, community and education-based activities.
- Combine accepted geospatial intelligence techniques and prior knowledge of geospatial information to create new solutions for previously unencountered situations.
- Apply geospatial information science and technology, knowledge of spatial relationships, and cognitive processes to address challenges in the private, commercial and societal geospatial intelligence sectors.
- Communicate and articulate the nuances of complex spatial relationships with text, voice, and visual products to broadly inform professional and non-technical audiences in a range of contexts.
- Create viable solutions using maps, applications and analytical tools to address new challenges in the geospatial intelligence community.
- Objectively analyze and evaluate a situation in the context of geospatial intelligence theories, methodologies, techniques in support of further analysis, problem solving, and decision making.
- Demonstrate knowledge of cultural norms that are respectful of diversity and inclusion to establish a positive and professional work environment.
- Demonstrate ethical conduct by producing quality work, contributing to the community, managing professional relationships by establishing honest and respectful interactions among individuals and organizations.
- Apply knowledge of spatial information and relationships using appropriate geospatial intelligence techniques in a variety of contexts to educate, solve problems and make decisions.

Contact

Campus	World Campus
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Program Website	View (https://gis.education.psu.edu/geointel/)