The graduate credit certificate in Geospatial Intelligence Analytics is for aspiring geospatial intelligence professionals as well as those with experience in the field who are only able to participate part-time and at a distance, while maintaining professional responsibilities. Students can take foundational or advanced courses depending on their level of expertise. The program promotes sound theory, methodologies, techniques, ethics, and best practices in the professional application of geospatial intelligence. The 15-credit curriculum integrates the geospatial information science and intelligence disciplines in a synergistic manner. The program is well suited for the geospatial intelligence professional serving outside the continental U.S.

Effective Semester: Fall 2023
Expiration Semester: Fall 2028

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/).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GEOG 571</td>
<td>Intelligence Analysis, Cultural Geography, and Homeland Security</td>
<td>3</td>
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<tr>
<td>or GEOG 882</td>
<td>Geographic Foundations of Geospatial Intelligence</td>
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<tr>
<td>GEOG 884</td>
<td>Spatial Data Science and Intelligence Analysis</td>
<td>3</td>
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<td>or GEOG 483</td>
<td>Problem-Solving with GIS</td>
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<tr>
<td>GEOG 883</td>
<td>Remote Sensing Image Analysis and Applications</td>
<td>3</td>
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<tr>
<td>or GEOG 479</td>
<td>Spatial Data Science for Cyber and Human Social Networks</td>
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</tbody>
</table>

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
• Combine advanced geospatial information science & technology knowledge and cognitive processes including theories, methodologies, techniques, ethics, and best practices to resolve complicated situations.
• Integrate professional experience, science, analytics, and the intelligence disciplines to create effective solutions.

Contact
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