APPLIED SCIENCE FOR NATIONAL SECUIRITY AND INTELLIGENCE, CAS

Contact

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Faculty

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Program Description

The Applied Science for National Security and Intelligence certificate integrates STEM disciplines with the special needs of the intelligence community. Graduates will gain deep insights into how the intelligence community operates, apply the scientific method of critical thinking and problem solving to address national security questions, aid in intelligence gathering and communicate scientific findings to make informed decisions. This program is tailored to preparing students for roles in defense sectors and other intelligence related fields.

Admission

For students already admitted to Syracuse University as graduate students, an internal application for the CAS is required. For students not already at SU, the graduate school application with undergraduate transcript and one recommendation letter will be required, through which the applicant must show either that he or she holds a position for which the certificate is relevant or is aiming to obtain such a position and has a good undergraduate background.

1. Development and application of STEM competencies: Graduates will gain expertise in advanced technical concepts within relevant STEM areas and apply them for problem-solving and real-time decision making to address issues faced by the U.S. Intelligence Community.

2. Comprehending stages of the Intelligence Cycle: Students will develop an in-depth understanding of the intelligence process, including their operation, data collection & analysis followed by communication of results.

3. Interdisciplinary Communication and Collaboration: Students will master the tools needed to effectively communicate technical and non-technical information to diverse stakeholders, fostering interdisciplinary collaboration essential to national intelligence.

Code	Title	Credits
I. Required Courses: 6 credits		
FSC 606	Advanced Forensic Science	3
PAI 738	US Intelligence Community: Governance & Practice	3
II. Electives: 6 credits required		
FSC 633	Quality Assurance and Ethics	3
FSC 641	Forensic Analysis of Biological Evidence with lab	3
FSC 679	Microbial Forensic Science	3
IST 623	Introduction to Information Security	3
IST 707	Applied Machine Learning	3
LAW 700	National Security Law	3
PAI 710	International Actors and Issues	3
PAI 738	US Intelligence Community: Governance & Practice	3
PHP 668	Applied Epidemiology	3
PHP 704	Infectious Disease: Epidemiology and Control	3