

INFORMATION SYSTEMS CYBERSECURITY GRADUATE CREDIT CERTIFICATE PROGRAM

Person-in-Charge	Carleen Maitland
Program Code	ISSEC
Campus(es)	World Campus

This graduate credit certificate is designed to provide students with a foundation in information systems cybersecurity. The certificate will enable those completing the program to market to academic institutions, government, and technology-based businesses. Students will be exposed to principles, models, tools, and applications in information security that specifically focus on network security, security and risk management, digital forensics, knowledge management, crisis and disaster management, and web security and privacy.

The certificate program is an attractive option for those seeking a career change or for individuals working in the industry who have no formal undergraduate academic education in information systems cybersecurity. The certificate is also attractive for individuals who do not wish a full master's degree program or for individuals who might wish to take a certificate to determine if they are interested in a complete postbaccalaureate degree program in Cybersecurity Analytics and Operations.

Courses taken in the certificate program may be applied toward a graduate degree, subject to restrictions outlined in GCAC-309 Transfer Credit (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-300/gcac-309-transfer-credit/>). Certificate students who wish to have certificate courses applied towards a graduate degree must apply and be admitted to that degree program. Admission to a graduate degree program is a separate step and is not guaranteed.

Effective Semester: Spring 2022
Expiration Semester: Spring 2027

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/>).

To be awarded the certificate, students must successfully complete 15 credits of course work. A 3.0 GPA must be obtained in order to successfully complete the certificate.

Code	Title	Credits
Required Courses		
IST 803	Cybersecurity Foundations	3
IST 805	Cybersecurity Forensics and Management	3
IST 554	Network Management and Security	3
IST 815	Foundations of Information Security and Assurance	3
Electives		
Select 3 credits from a list of approved electives available from the program office.		3
Total Credits		15

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

1. **APPLY/CREATE:** Integrate the use of disciplinary methods, techniques, and knowledge to solve practical problems.
2. **PROFESSIONAL PRACTICE:** Make use of ethical standards and principles of integrity as a foundation in decision-making.
3. **THINK:** Search, evaluate, and synthesize literature to integrate cyber security principles into disciplines and professional fields.

Contact

Campus	World Campus
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Program Website	View (http://www.worldcampus.psu.edu/degrees-and-certificates/information-systems-security-certificate/overview/)