INFORMATION SYSTEMS CYBERSECURITY POSTBACCALAUREATE CREDIT CERTIFICATE PROGRAM

Person-in-Charge: Mary Beth Rosson
Program Code: ISSEC
Campus(es): World Campus

This postbaccalaureate certificate program is designed to provide students with both a breadth and depth of training in information 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, crisis and disaster management, and web security and privacy. A distance education format is used to accommodate the needs of professionals already active in this area. The certificate program is an attractive option not only for those who desire advanced education but do not wish a full master’s degree program, but also for students who might wish to take a certificate to determine if they are interested in a complete postbaccalaureate degree program in Information Sciences and Technology (IST).

Effective Date: Spring 2017
Expiration Date: Spring 2022

Admission Requirements
Applicants apply for admission to the program via the Graduate School application for admission (http://gradschool.psu.edu/prospective-students/how-to-apply). Requirements listed here are in addition to Graduate Council policies listed under GCAC-300 Admissions Policies (http://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 (http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-300/gcac-305-admission-requirements-international-students) for more information.

A bachelor’s degree in a related area (e.g., engineering and science), while not necessary for admission, is helpful in the successful completion of the certificate. It is expected that students will have a basic level of competency in computer language and information technology (related work experience can be used to demonstrate such competency). GRE scores are not required for nondegree graduate students.

Certificate Requirements
Requirements listed here are in addition to requirements listed in Graduate Council policy GCAC-212 Postbaccalaureate Credit Certificate Programs (http://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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 815</td>
<td>Foundations of Information Security and Assurance</td>
<td>3</td>
</tr>
<tr>
<td>IST 554</td>
<td>Network Management and Security</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select 9 credits from the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>IST 451</td>
<td>Network Security</td>
</tr>
<tr>
<td>IST 454</td>
<td>Computer and Cyber Forensics</td>
</tr>
<tr>
<td>IST 456</td>
<td>Information Security Management</td>
</tr>
<tr>
<td>IST 564</td>
<td>Crisis, Disaster and Risk Management</td>
</tr>
<tr>
<td>INSC 561</td>
<td>Web Security and Privacy</td>
</tr>
</tbody>
</table>

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.

Contact
Campus: World Campus
Graduate Program Head: Mary Beth Rosson
Director of Graduate Studies (DGS) or Professor-in-Charge (PIC): David Joseph Fusco

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