MASTER OF SCIENCE IN CYBERSECURITY MANAGEMENT

The icon appears in the title of traditional courses that are also available as a set of module courses.

Description and Outcomes

The Master of Science in Cybersecurity Management will prepare graduates for leadership roles directing and protecting critical information infrastructures. You will learn to develop, implement, evaluate, and update the cybersecurity policies and practices that allow an organization to effectively respond to the dynamic cybersecurity landscape. Graduates will be adept in the management of information continuity, asset classification and control, compliance management, and the secure administration of IT infrastructure, as well as incident response.

Program Length

The Master of Science in Cybersecurity Management program consists of a minimum of 60 quarter credit hours. Upon successful completion of the program, you will be awarded a master of science degree.

Program Outcomes

2. Industry Research: Demonstrate the maturity to develop research topics based on cybersecurity underlying principles learned throughout the MSCM program.
3. Decision Analysis: Analyze data using statistical principles for the purpose of developing or/and supporting a hypothesis.
4. Critical and Analytical Thinking: Apply appropriate theories, including Request for Comments (RFCs), within cybersecurity science and technology to evaluate and mitigate risk in contexts of uncertainty.

Professional Competencies

In addition to the discipline-specific outcomes, professional competencies are integrated throughout your academic program. You can review the professional competencies associated with your academic program in the graduate School of General Education ([https://catalog.purdueglobal.edu/graduate/general-education](https://catalog.purdueglobal.edu/graduate/general-education)) section of this Catalog.

Program Availability

For program availability, please refer to the U.S. State and Other Approvals ([https://catalog.purdueglobal.edu/policy-information/university-information/accreditation-approvals-memberships](https://catalog.purdueglobal.edu/policy-information/university-information/accreditation-approvals-memberships)) section and Program Availability Information ([https://www.purdueglobal.edu/catalog-program-availability-info.pdf](https://www.purdueglobal.edu/catalog-program-availability-info.pdf)).

Policies

Accelerated Master of Science in Cybersecurity Management Option

If you are a graduate of the University’s Bachelor of Science in Information Technology or Bachelor of Science in Cybersecurity, are granted admission to the Master of Science in Cybersecurity Management, and meet the requirements for the accelerated Master of Science in Cybersecurity Management option, you may have the following courses waived:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT530</td>
<td>Computer Networks</td>
<td>4</td>
</tr>
<tr>
<td>IT537</td>
<td>Introduction to Cybersecurity</td>
<td>4</td>
</tr>
<tr>
<td>IT541</td>
<td>Computer and Network Security</td>
<td>4</td>
</tr>
<tr>
<td>IT542</td>
<td>Ethical Hacking and Network Defense</td>
<td>4</td>
</tr>
<tr>
<td>IT550</td>
<td>Computer Forensics and Investigations</td>
<td>4</td>
</tr>
</tbody>
</table>

In order to qualify for the accelerated Master of Science in Cybersecurity Management option, you must meet the following criteria:

1. Complete your undergraduate coursework in the information technology or cybersecurity program with a minimum cumulative GPA of 3.2.
2. Complete the following courses and obtain a grade of “B” or better in each course (waiver of graduate courses noted above varies based on completion of specific courses listed below and mapped in the following chart):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT234</td>
<td>Database Concepts</td>
<td>5</td>
</tr>
<tr>
<td>IT262</td>
<td>Certified Ethical Hacking I</td>
<td>5</td>
</tr>
<tr>
<td>IT278</td>
<td>Network Administration</td>
<td>5</td>
</tr>
<tr>
<td>IT283</td>
<td>Networking with TCP/IP</td>
<td>5</td>
</tr>
<tr>
<td>IT286</td>
<td>Network Security Concepts</td>
<td>5</td>
</tr>
<tr>
<td>IT301</td>
<td>Project Management I</td>
<td>6</td>
</tr>
<tr>
<td>IT316</td>
<td>Computer Forensics</td>
<td>6</td>
</tr>
<tr>
<td>IT350</td>
<td>Advanced Database Concepts</td>
<td>6</td>
</tr>
<tr>
<td>IT375</td>
<td>Windows Enterprise Administration</td>
<td>6</td>
</tr>
<tr>
<td>IT395</td>
<td>Certified Ethical Hacking II</td>
<td>6</td>
</tr>
<tr>
<td>IT401</td>
<td>Project Management II</td>
<td>6</td>
</tr>
<tr>
<td>IT411</td>
<td>Digital Forensics</td>
<td>6</td>
</tr>
<tr>
<td>IT412</td>
<td>Information Systems Security</td>
<td>6</td>
</tr>
<tr>
<td>IT460</td>
<td>Systems Analysis and Design</td>
<td>6</td>
</tr>
<tr>
<td>IT484</td>
<td>Cybersecurity Policies</td>
<td>6</td>
</tr>
</tbody>
</table>

If you meet the above requirements, the following chart shows which completed undergraduate courses in core or elective requirements qualify for each graduate course waiver:

<table>
<thead>
<tr>
<th>MS in Cybersecurity Management Courses</th>
<th>BS in Information Technology, BS in Cybersecurity, and/or BS in Cloud Computing and Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT530</td>
<td>IT278, IT283, and IT375</td>
</tr>
<tr>
<td>IT537</td>
<td>IT277, IT279, and IT410</td>
</tr>
<tr>
<td>IT541</td>
<td>IT286, IT412, and IT484</td>
</tr>
</tbody>
</table>


**Progression Requirements**

1. Students entering the Master of Science in Cybersecurity Management program should already possess an in-depth knowledge of computer systems and networking technology, good mathematical and communication skills, and familiarity with Internet and wireless applications. Required information technology (IT) skillsets should be equivalent to a Bachelor of Science in Information Technology (BSIT), a Master of Science in Information Technology (MSIT), or similar degree, or an appropriate combination of IT professional certifications and experience.

2. You are required to take and pass IT513 Writing and Critical Thinking for the IT Professional in your first term.

3. You may enroll in no more than one course per term for your first three terms. After completing your third term, you may enroll in two courses per term if your cumulative GPA is 3.5 or higher. Exceptions to this policy require the approval of the Dean of the School of Business and Information Technology or a designee.

4. If, for any reason, you are required to complete additional capstone hours during your program, you may complete them during the normal course of study or you may contact your Student Advisor to secure an extension. IT596 IT Graduate Capstone Extension Course is taken after IT595 Master's Capstone in Cybersecurity Management and is for the specific purpose of providing a means for capstone project or thesis completion. Approval of the Dean or the Department Chair is required for enrollment in IT596 IT Graduate Capstone Extension Course. If an extension is granted, the University will not charge tuition for the extension course; however, you will be required to pay the normal resource fee.

**Certification, State Board, and National Board Exams**

Certain state certification and licensure boards have specific educational requirements for programs to lead to a license or nongovernmental certification that is a precondition for employment in a recognized occupation.

Unless otherwise specified, Purdue Global’s programs are not designed to meet any specific state’s licensure or certification requirements. If certain licensed occupations, vocations, or professions are not explicitly listed, Purdue Global has not reviewed the licensure or certification requirements of those occupations, vocations, or professions, nor intended the program to meet such requirements. Licensure-track programs may limit enrollment to students in certain states; please see Purdue Global’s Program Availability Information (https://www.purdueglobal.edu/catalog-program-availability-info.pdf) to determine enrollment eligibility.

You are responsible for understanding the requirements of optional certification exams. Such requirements may change during the course of your program. You are not automatically certified in any way upon program completion. Although certain programs are designed to prepare you to take various optional certification exams, Purdue Global cannot guarantee you will be eligible to take these exams or become certified. Your eligibility may depend on your work experience, completion of education and/or degree requirements, not having a criminal record, meeting other certification requirements, or the program or the University itself having appropriate accreditation or licensure.