Master of Science in Information Technology (MSIT) Concentration in IT Security

OVERVIEW

As more and more of our world moves online, the importance of keeping information technology safe grows greater by the day. Students interested in AIU's Master of Science in Information Technology degree with a concentration in IT Security may be looking to pursue leadership roles in the fields of IT security, information security, systems security, or IT incident response.

The MSIT degree with a concentration in IT Security aims to provide students with knowledge, skills, and abilities that are crucial to the cybersecurity field. The program emphasizes problem-based and hands-on learning, helping IT Security students to prepare for the challenges posed by real-world cybersecurity.

CURRICULUM INCLUDES

COURSEWORK

In this industry-focused curriculum, students have an opportunity to learn how to design, analyze, test, and implement systems. Student can explore software development management, enterprise architecture, and technological innovations. The program also focuses on technical communications as well as legal and ethical issues, such as:

Advanced Information Assurance: explores the authenticity, availability, confidentiality, integrity, and security of information and information systems. Risks and issues related to transmission, use storage, and protection of information by information systems are analyzed. Emphasis is placed on data loss prevention, encryption, and data recovery techniques.

Security Risk Management: focuses on identifying and mitigating risks, with emphasis placed on managing risk from both an organizational perspective and at the systems level. Students will have the ability to conduct risk assessments on IT systems, programs, and policies and develop risk mitigation strategies.

Security Laws and Ethics: focuses on current laws relevant to IT security and ethical issues. Ethical and social issues are analyzed in case studies, with regard to current policies, regulations, and laws. Emphasis is placed on creating safe and compliant computing environments at the organization level.

Innovations and Emerging Media: covers contemporary topics which may include artificial intelligence, machine learning, blockchains, cryptocurrencies, IoT, autonomous vehicles, and digital media. Specific focus is placed on the resultant ethical, social, legal, and cultural issues such as net neutrality, broadband regulation, privacy, and intellectual property rights.

WHY AIU?

AIU offers a streamlined, real-world curriculum and flexibility designed to help you schedule school around your life, not the other way around.

To accommodate busy lives, we offer full- and part-time program options and transfer-in credit* for eligible college, work and military experience, which could cut down on the time it takes to earn a degree.

American InterContinental University™ is part of the American InterContinental University System, which is accredited by the Higher Learning Commission (hlcommission.org), a regional accreditation agency recognized by the U.S. Department of Education.

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Master of Science in Information Technology
(MSIT) Concentration in IT Security

The goal of the Master of Science in Information Technology degree with a concentration in IT Security is to provide students with knowledge, skills, and abilities relevant for the information technology security field.

INDUSTRY-FOCUSED CURRICULUM
The specialized curriculum in AIU's MIST-IT Security program allows students to study the skills needed to design IT security programs, evaluate security techniques, programs, and processes, develop information assurance strategies, and design risk response plans.

This program also gives students the opportunity to explore the impact of risk on projects, IT crimes, and licenses and contracts.

TAUGHT BY EXPERIENCED PROFESSIONALS
AIU's MSIT program is taught by a team of experienced professionals who bring their real-world perspectives into the classroom. This approach can help students better understand the qualities and skills utilized in today's information technology industry.

OUTCOMES

WE CAN HELP YOU LEARN HOW TO:

- Assess and design IT architecture and systems for solutions to business needs.

- Design plans for IT projects, programs, and operations.

- Communicate technical information to internal and external stakeholders, including those with and without technical knowledge.

- Research, evaluate, and select appropriate technologies to support business requirements.

- Demonstrate the ability to manage processes specific to IT security.

REQUIRED COURSES

CORE COURSES

ITSEC 500	Advanced Information Assurance	4.5
ITSEC 510	Security Risk Management	4.5
ITSEC 520	Security Laws and Ethics	4.5
ITCO 502	Systems Analysis and Design	4.5
ITCO 512	Advanced Technical Communication	4.5
ITCO 522	Software Development Management	4.5
ITCO 532	Global Technology Management	4.5
ITCO 542	Enterprise Architecture	4.5
ITCO 552	Innovations and Emerging Media	4.5
ITCO 592	Capstone	4.5

Total MSIT Degree Requirements — **45 Credits**

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