



**VILLANOVA**  
UNIVERSITY

**Villanova University**  
**Professional Education**  
**Certificate Programs**  
2007 - 2008 Catalog

**Information Systems Security**  
Certificate Program



## VILLANOVA UNIVERSITY

Villanova University, a coeducational Roman Catholic institution founded in 1842 by the priests and brothers of the Order of St. Augustine, welcomes students of all faiths. The university consists of five colleges: The College of Liberal Arts and Sciences, The School of Business, The College of Engineering, The College of Nursing and The School of Law. It is the oldest and largest Catholic university in the commonwealth of Pennsylvania. For more than a decade it has been ranked by *U.S. News & World Report* as the #1 University in the North (Master's Division). *BusinessWeek* has ranked the undergraduate business school #19 in the nation.

Villanova University offers a variety of online certificate programs in various disciplines: Project Management, Six Sigma, Contract Management, IS Security, Business Analysis, Software Testing, Human Resources, ROI Methodology, Leadership, and Finance and Accounting for the Non-Financial Manager.

## Hurry! Monthly Classes Fill Quickly.

- 800-571-4938
- Intl. +1 813-612-4296
- VillanovaU.com

# Learn New Ways to Secure Corporate Information Systems

You know that hackers and cyber-terrorists have pushed corporations to new levels of alert, creating the need for heightened security measures to protect both infrastructure and data. And as an IT or IS professional, you know that increasing your understanding of risk assessment and security is an ongoing process. You need up-to-the-minute skills to combat threats, prevent attacks and remedy unanticipated casualties – and International Information Systems Security Certification Consortium (ISC)<sup>2</sup>® and Computing Technology Industry Association (CompTIA®) certification to back them up. With Villanova University's IS Security certificate programs you can get the skills you need to satisfy industry demands and prepare for the certification you want – 100% online.

## LEARN THE LATEST IS SECURITY CONCEPTS, METHODS AND PRACTICES

The protection of information systems is becoming increasingly complex, and demand for new and improved services in both the public and private sectors is intense. As enterprises re-invent their infrastructure to meet the demand, cyber-security threats pose a real danger. Villanova's IS Security online certificate programs help professionals like you gain vital skills that can be used immediately to safeguard against security threats within critical information infrastructures. You'll learn the latest security terms and critical principles in the recently updated (ISC)<sup>2</sup>® Common Body of Knowledge.

## DISTINGUISH YOURSELF WITH INDUSTRY CERTIFICATION

Villanova University online certificate programs advance your industry knowledge to combat potential threats and attacks and can lead to certification in IS Security. These comprehensive information systems security online courses prepare professionals for CISSP®, SSCP®, or Security+™ certification from (ISC)<sup>2</sup>® and CompTIA®.

### (ISC)<sup>2</sup>® Certification

This prestigious certifying body administers designations based on work experience:

- Certified Information Systems Security Professional (CISSP®) – 4 years of experience, 10 domains of the (ISC)<sup>2</sup>® CISSP Common Body of Knowledge.
- Systems Security Certified Practitioner (SSCP®) – At least 2 years of experience, 7 domains of the compendium of best practices in the IS security field.
- Associate of Certification – Professionals do not have to wait to have 2 to 4 years of IS security experience to obtain certification. The Associate of (ISC)<sup>2</sup>® is available to those who have gained competence in key industry knowledge and IS security concepts.

### CompTIA® Security+™ Certification

Security+ certification by CompTIA® focuses on the mid-level security certification of professionals with networking and security experience or those who wish to transition into this field.



## BECOME AN EXPERT — EARN A MASTER CERTIFICATE!

Get the qualifications and the confidence to lead any IS security team! Villanova's online IS Security program offers two tracks that lead to a **Master Certificate in IS Security** or a **Master Certificate in CISSP® Security Management**.



Figure 1

### GET CERTIFIED!

Your Master Certificate prepares you for the certification exams offered by (ISC)2® and CompTIA®.



Through this unique online curriculum, you'll gain invaluable insight into the latest techniques and cutting-edge technology used by industry experts. You'll learn to lead in the warfare against everything from outright threats to even the most complex cryptographic attacks. Whether you choose the Villanova University online Master Certificate in Information Systems Security or the Master Certificate in CISSP® Security Management, you'll expand your expertise in both the theoretical and the applied aspects of information systems security.

### Program Benefits

- Learn to create logical physical security design including firewalls
- Develop best practices for business continuity planning in the event of a major disaster or change in the business such as a merger
- Master critical security concepts impacting today's businesses
- Learn the critical components of an organization's systems infrastructure
- Understand and master the latest principles and practices of advanced security management

### Who Should Enroll?

Villanova's Online Information Systems Security certificate programs are designed for professionals developing skills on the management side of IS Security and for those protecting the assets of the organization. These programs provide managers and other professionals with the high-end skills necessary to achieve industry certification.

## EXPERIENCE AN UNMATCHED ONLINE CLASSROOM

Villanova's online classroom is dynamic, interactive and multimedia driven. Instant messaging and shared virtual white boards allow you to interact with classmates and faculty in real time. And two-way voice over IP is a great personal touch for students who prefer to communicate via voice to ask questions or discuss weekly assignments.

Communicating with professors during virtual office hours and viewing leading industry experts via streaming video make learning faster than in the traditional classroom setting. You'll do everything online in your own time, so you can work full time and continue your education.

### UNPARALLELED FEATURES

- Virtual classroom provides two-way voice over IP with instant messaging and shared whiteboard features
- Professor-led classes through online streaming video
- Chat rooms and message boards for rich, real-time interaction with professors and students alike
- Ability to study anytime, anywhere
- No required login times – 24/7 access
- Multimedia access – not a book-in-a-box, go-it-alone program

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## GET THE IS SECURITY SKILLS YOU NEED – ONLINE!

### Essentials of Information Systems Security

This course expands general knowledge of IS security and addresses topics critical to achieving success in today's security-conscious environment, preparing you to meet the intense demands of the IS security profession.

#### What You'll Study:

##### *Introduction to Security and Security Investigation Phase*

- The Systems Development Life Cycle (SDLC)
- Differences between threats and attacks
- Security ethics

##### *Security Analysis*

- Risk identification and assessment
- Risk management, control and mitigation

##### *Logical and Physical Security Design*

- IS security policies, procedures and design models
- Incident response and disaster recovery

##### *Implementation and Maintenance of Security*

- Project management techniques for IS security
- Security functions, considerations and maintenance

### Mastering IS Security+

This course is designed for IS security and IT networking professionals, people interested in learning more in-depth information about the IS security profession, as well as those interested in obtaining the CompTIA® Security+™ certification.

#### What You'll Study:

##### *Introduction to Mastering IS Security+™*

- Prevention, detection and response
- Security layers
- Access control and authentication

##### *Security in Transmissions*

- RADIUS, TACACS+, SMTP and POP
- Securing email against threats

##### *Security in the Infrastructure*

- Wireless protocols, vulnerabilities and site security
- Hardening the network and applications
- Hashing, encryption and digital signatures

#### *Operational Security*

- Cryptography
- SSL/TLS, HTTPS and LDAP
- Physical security

### CISSP® Advanced Security Management

This course analyzes advanced facets of security management and practices, preparing you for the CISSP® or SSCP® certification exam. You will master the 10 domains of the CISSP® certification exam, as well as the seven domains of the SSCP® certification exam. You'll also learn the latest security terms and critical principles in the recently updated (ISC)²® Common Body of Knowledge. Armed with the latest practices of good security management, you'll be prepared for security leadership positions in any enterprise.

#### What You'll Study:

- Physical security
- Cryptography
- Access control
- Security models and architecture
- Network and internet security
- Disaster recovery and business continuity
- Law, investigation and ethics
- Applications and systems development security
- Operations security
- Security management practices

### Master Certificate in IS Security

These comprehensive courses prepare professionals to achieve CISSP® or SSCP® certification from (ISC)²®.

#### Required Courses:

- Essentials of IS Security
- Mastering IS Security+™
- Choose one Elective\*

### Master Certificate in CISSP® Security Management

This master certificate and a CISSP® certification are ideal for individuals looking to advance into senior leadership positions.

#### Required Courses:

- Essentials of IS Security
- Mastering IS Security+™
- CISSP® Advanced Security Management



## VILLANOVA ONLINE FACULTY AND PRACTICING PROFESSIONALS

Villanova University online faculty and staff bring a wealth of knowledge and real-world experience to instructional development and delivery. Their expertise and interactive teaching methods create a dynamic experience where participants use a proven combination of “virtual classroom” tools, online instructor-led discussions and streaming video.

### Robert H. Arakelian, MBA

A senior information technology executive with over 30 years' experience in the field, Mr. Arakelian has held progressive management positions in the Campbell Soup Company, including the VP of IT for Godiva Chocolatier, as well as Campbell's Director for Global Disaster Recovery and Business Continuity Planning. He is an Adjunct Professor at Villanova University. Mr. Arakelian holds a BS in Mathematics from Villanova University and an MBA from Widener University. He is a member of the Philadelphia Chapter of SIM (Society for Information Management), Liberty Valley Chapter of ACP (Association for Contingency Planners), and is on the Advisory Council for the CIO Forum & Executive IT Summit.

### Ron Bandes, CISSP

With 30 years' experience in the computer and data network field, Mr. Bandes has worked with most of today's technologies from their inception. He is an experienced programmer, system designer, network engineer, security analyst, and a licensed trainer, with certifications including CISSP®, CCNP, MCSE and CompTIA® CTT+. For the past 13 years he has operated a consultancy and teaching business, working with many Fortune 100 companies. His current specialty is computer security and forensics.

### Larry Greenblatt, CISSP

A senior security consultant and trainer with InterNetwork Defense, Mr. Greenblatt has been involved with information security for over two decades. He is one of the world's leading CISSP instructors, having worked at IBM for four years. In addition to his teaching, he actively consults for companies on security-related projects helping businesses comply with NIST and ISO/IEC-27001 and 17799 standards and guidelines. Mr. Greenblatt holds the following certifications: CISSP, CEH, ECSA, CCNP, CCDP, MCSE, MCT, CNE, Security+, Linux+, ITIL Foundations. Additionally, he is the founder of one of the most active CISSP study groups on Yahoo – CyberKungFu.

### Michael Gregg, CISSP

President of Superior Solutions, Inc., a Houston-based security assessment and training firm, Mr. Gregg has more than 20 years' experience in the IT field. He holds two associate's degrees, a bachelor's degree, and a master's degree. He has earned more

than 20 certifications including: CISSP, MCSE, CCNA, CTT+, CIW Security Analyst, CEH, NSA IAM, SCNP, and TICSA. Mr. Gregg has consulted and taught for many Fortune 500 companies. Although consulting consumes the bulk of his time, he enjoys teaching. He also writes for several publications and is the author of CISSP Exam Cram 2 and creator of the Assessing IT Infrastructure Vulnerabilities training class.

### George Mays, CISSP, Security+, CCNA, A+, Network+, I-Net+, (past) MSCE

President of G.W. Mays & Associates, Inc., Mr. Mays has more than 35 years' experience in computing, data communications and networking. He has consulted with academic researchers, faculty members, students and administrators. He also supervised university computer labs and staff, and managed systems programming, data communications and portions of computer operations. Mr. Mays also served as database administrator for two Fortune 50 companies, a data communications equipment manufacturer, and a computer manufacturer. He spent 10 years directing the engineering and system development efforts for the largest electronic document conversion firm in America. Since 1999, he has consulted and taught a variety of security and networking classes nationwide.



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## UNIVERSITYALLIANCE®

The Nation's Leading Universities Online

With more than 300,000 enrollments since its inception, the University Alliance Online is the nation's largest exclusive e-learning provider of degree and certificate programs from accredited universities. The University Alliance includes: Villanova University, University of Notre Dame's Mendoza College of Business, Tulane University's Freeman School of Business, Thunderbird School of Global Management, University of South Florida, Regis University, Florida Institute of Technology, The University of Scranton and Jacksonville University.

The University Alliance works with leading universities to transform their classroom curricula into dynamic online programs that offer you optimal learning experiences.

One simple call connects you to the broad range of benefits offered by the University Alliance. You will be assigned a program representative who serves as your contact for non-academic issues – answering questions about financial aid, helping you enroll in the next class and more. Technical support personnel and other professionals are also easily accessible every step of the way.

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## CERTIFICATE PROGRAM TUITION

### Master Certificate in IS Security

Take all three courses and receive your Master Certificate in IS Security or Master Certificate in CISSP Security Management, a powerful credential that demonstrates your professionalism and understanding of core security skills. Sign up for either track and receive a special tuition rate listed below.

#### Master Certificate in IS Security

Essentials of Information Systems Security	\$1,980
Mastering IS Security+	\$2,280
Choose elective*	\$1,980
<b>TOTAL</b>	<b>\$6,240</b>
<b>Special Package: All three courses (a \$745 savings)</b>	<b>\$5,495</b>

#### Master Certificate in CISSP Security Mgt.

Essentials of Information Systems Security	\$1,980
Mastering IS Security+	\$2,280
CISSP® Advanced Security Mgt.	\$2,980
<b>TOTAL</b>	<b>\$7,240</b>
<b>Special Package: All three courses (a \$745 savings)</b>	<b>\$6,495</b>

**Continuing Education Units (CEUs):** Earn 4.5 CEUs for Essentials of IS Security and Mastering IS Security+. Earn 6.0 CEUs for CISSP Advanced Security Management.

**Professional Development Units (PDUs):** Earn 45 PDUs for Essentials of IS Security and Mastering IS Security+. Earn 60 PDUs for CISSP Advanced Security Management.

**ACE Credit Recommendations:** The American Council on Education (ACE) has recommended three undergraduate credit hours for Essentials of IS Security and Mastering IS Security+, and four credit hours for CISSP Advanced Security Management.

## WHAT TYPES OF DISCOUNTS AND ASSISTANCE ARE AVAILABLE?

### Tuition Assistance

Many companies provide tuition assistance to help employees enhance their skill base and advance their education. Consult your HR department and your tax advisor for more information.

### Career Training Loans

SLM Financial®, a Sallie Mae® company, offers a comprehensive, flexible, low-cost loan product specifically designed to help working adults who enroll in an accredited distance-learning undergraduate, graduate or certificate-granting program. The Career Training Loan<sup>SM</sup>, with its quick application and approval process, will have you ready to enroll in the next available session. For more information on the Career Training Loan, contact your program representative today or fill out an online application at [slmfinancial.com](http://slmfinancial.com).

### Military Discount

Special discounts are available for active U.S. military servicemembers.



## CORPORATE PROGRAMS

### Unleash the Power of Your Organization

Establish a corporate training program today, and begin to see positive results in your organization immediately!

### What You'll Get

A well-educated workforce equals corporate success. Along with saving your company valuable time and money, you'll provide your employees with the opportunity to learn the necessary skills to lead improvement initiatives that result in measurable sales growth, economic value, customer satisfaction and retention, and employee satisfaction and motivation. These skills will help increase your bottom line and create a streamlined work environment.

### Start with a Pilot Program!

Register a group of your employees in one of our classes, and see how the newly acquired knowledge increases productivity and impacts your bottom line. The pilot program offers the following services to the organization:

- Special corporate pricing
- A unique online session with one of our experts to "kick-off" the course
- A survey of employees after class to ensure quality and satisfaction
- An end-of-course review with corporate managers
- All employees will be in the same online class

*"Corporate leaders are beginning to understand that tools capable of disrupting their operations are readily available ... and the risks to their companies can and will affect operational survivability."*

*John S. Tritak, Former Director of Critical Infrastructure Assurance  
U.S. Department of Commerce*

**Guarantee your staff's success with IS Security training from Villanova University! Getting started is easy. Contact us today for complete details.**

\* Electives include: Essentials of Software Testing, Essentials of Business Analysis, Maximizing Team Effectiveness for the IS/IT Project Manager, and Project Management for the IS/IT Professional.

## A DIVERSE NETWORK

The University Alliance provides corporate education for these prominent firms, including:

- Accenture
- Agfa
- Alliance Energy
- AT&T
- Bell South
- Bethlehem Steel
- Boeing
- Chevron
- Cisco
- CSX Transportation
- Dell
- Deloitte Consulting
- EDS
- Exxon
- General Dynamics
- General Electric
- General Motors
- Groton Utilities
- Halliburton
- HP
- IBM
- Ingersoll-Rand
- Intel
- Lockheed Martin
- Mobil
- Motorola
- NASA
- PricewaterhouseCoopers
- Schlumberger
- Sprint
- Texaco
- United Technology
- U.S. Military
- Xerox

## Corporate Rates are Available

- ➔ 800-571-4938
- ➔ [corp@VillanovaU.com](mailto:corp@VillanovaU.com)

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