



O V E R V I E W

Master's Degrees

Graduate Certificates

Regional Accreditation

Funding Options

2017

SANS
Technology
Institute

The best. Made better.



Higher Demands on Cyber Professionals

As cyber attacks increase in volume and complexity, and organizations scramble to keep pace, the career path for cybersecurity professionals is being transformed.

Leading an organization's security efforts now requires more than technical competence. In fact, cybersecurity professionals with advanced degrees now outnumber those with only a bachelor's degree, and information security professionals in management positions are 60% more likely to hold an advanced degree than only a bachelor's.

Higher Degree of Learning

The SANS Technology Institute offers practical, rewarding, and effective education programs that prepare cybersecurity professionals to meet these new demands for career advancement.

Master of Science Degrees

The Master's Programs of the SANS Technology Institute provide the foremost education for cyber professionals.

- Master of Science in Information Security Engineering (MSISE)
- Master of Science in Information Security Management (MSISM)

Graduate Certificates

Graduate Certificate Programs offer individuals the opportunity to earn a post-baccalaureate, graduate-level credential by completing a series of three to four related, technical courses.

- Cybersecurity Engineering (Core)
- Cyber Defense Operations
- Penetration Testing and Ethical Hacking
- Incident Response

Accreditation

The SANS Technology Institute is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104 (267-284-5000). The Middle States Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation.

The best. Made better.

SANS graduate programs are the ultimate expression of our 25 years dedicated to the education and development of information security professionals.

The SANS Technology Institute transforms the world's best cybersecurity training and certifications into a comprehensive, rigorous, graduate education experience.

Our programs provide high-potential cybersecurity professionals with the combination of cutting-edge knowledge and leadership skills that takes careers to the highest levels.

The best. Made better.

SANS Technology Institute is an independent subsidiary of SANS, the largest and most trusted source for cybersecurity training in the world.

Coursework to Meet Real World Demands

70%

Technical Expertise with Application Emphasis

- Rigorous technical excellence
- Hands-on skills emphasis
- Hyper-current content
- Real-world application

15%

Management and Communication

- Leadership and strategy
- Organizational effectiveness & managing people
- Mobilizing and implementing

15%

In-Practice Leading and Learning

- Team exercises and scenario response
- Group project development and management
- Presentation simulation

Flexible Course Options to Meet Your Schedule

Live Immersive Instruction

Attend class during SANS events held around the world throughout the year. Meet fellow students and instructors in person.

OnDemand

Online, self-paced instruction optimizes flexibility, allowing you to learn at your own pace from home or work.

vLive

Log in twice weekly for two months, meet with your class and instructor in an interactive, virtual classroom.

Working graduate students can choose any option with confidence. Each learning mode provides the same high level of quality and satisfaction.

World-Class Faculty with Exceptional Skills

The Elite SANS Instructors

Fewer than 75 faculty have qualified to teach for SANS, globally. A rigorous, multi-year selection process certifies fewer than 1 in 1,200.

Cutting-Edge Workplace Experience

Faculty average 15 years information security experience. They are real-world practitioners who specialize in what they teach, not IT generalists.

Extraordinary Teaching Skills

10+ years average teaching experience. Rare combination of technical expertise and student engagement skills.



Tuition Payment Options

We offer master's candidates a Tuition Payment Plan. In addition, tuition is often eligible for corporate tuition reimbursement.

Our graduate programs are approved for VA Education Benefits.



Industry Recognized Certifications

Students earn GIAC certifications during most technical courses.

Master of Science in Information Security Engineering (MSISE)

The preeminent degree for technical leadership in cybersecurity.



Master of Science in Information Security Management (MSISM)

Focus on standards and systems for security management.

Designed for Working Professionals

Tailor your class start dates and locations (live or online) to fit your schedule.

Flexible Duration

Complete your degree between 3 and 5 years.

GIAC Certifications

Earn 6-8 industry-recognized GIAC certifications even before you graduate.

Build Communication Skills

Improve your ability to present technical topics to non-technical audiences, be persuasive, and mobilize organizations to achieve security goals.

Admissions Checklist

- Application form
- Current résumé
- Two essays
- Video submission
- Letter of recommendation
- Official transcripts (undergraduate degree required)
- Application fee

Prepare to lead. The MSISE program is a rigorous, challenging, and rewarding experience that provides you with the rare combination of elite technical mastery and the leadership capability to mobilize people, organizations, and resources.

With a focus on ensuring your ability to apply knowledge and skills in real-world situations, the MSISE program prepares you to make an immediate and lasting impact on your team and your career.

Program Highlights:

SANS Technical Core

- Layered, defensive techniques
- Study of hacker techniques (offense informs defense)
- Intrusion detection & incident response

Deep, Advanced Elective Catalog

- Penetration testing
- Digital forensics
- Specialized defense practices

Integrated Learning: The best. Made better.

- Advanced labs & real-life simulations
- NetWars cyber range testing
- Project Management/PMP®

Research Relevant to Your Job

- Reviewed by industry experts
- Present at SANS conferences
- Security awareness programs

Focus: NetWars Cyber Range

Government agencies, military, law enforcement, and commercial entities continuously deploy this cyber range (and its cousin, SANS CyberCity) to train their teams and facilitate hands-on learning. Graduate students get months of continuous access to hone and practice their skills.

Sample Schedule

- **Year 1:** 4-5 courses, 11 credits
- **Year 2:** 6 courses, 13 credits
- **Year 3:** 5-6 courses, 12 credits
- **8-10 hours** per week investment

Who Should Enroll?

IT or Infosec professionals who seek to advance their careers to become technically proficient leaders and managers in their organizations.

This program will prepare professionals who will command the trust and confidence of their organizations because they will simultaneously have the requisite knowledge of underlying technologies and threat vectors, as well as the communication skills and organizational techniques to corral resources, effect change, and get things done.

Cybersecurity issues have arrived at the board and executive level – with a loud bang. Organizations can no longer manage cybersecurity as a technical support function. Effective decisions on strategic priorities and resource allocation for cybersecurity require new perspectives, new skills, and a new level of executive leadership.

The MSISM program provides students with the executive skills needed to define and deliver organization-wide strategies, programs, and policies. It teaches many of the technical underpinnings of information security, but focuses information security personnel on auditing information systems, managing the legal implications of an incident, evaluating emerging solutions, and implementing organization-wide standards.

Who Should Enroll?

IT or IS managers in larger organizations that emphasize organizational and policy considerations rather than technical, hands-on skills and knowledge.

MSISM students take required courses in policy development, audit, and legal considerations in place of some of the technical, applied-skills courses in the MSISE program. This is a difference in emphasis, but MSISM graduates will still understand the underlying technologies.



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The SANS Technology Institute develops leaders to strengthen enterprise and global information security. We educate managers and engineers in information security practices and techniques, attract top scholar-practitioners as faculty, and engage both students and faculty in real-world applied research.

SANS Technology Institute
Telephone: 301-241-7665
Email: info@sans.edu

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