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“The Stanford Advanced Computer Security credential was the start of my newly assigned computer security project. Soon after graduation, I was assigned to lead a very sophisticated Identity Management Infrastructure Implementation Project for the entire corporation of 68,000 users.”



—Bayan M. Alhaddad
 Infrastructure Access Lead in
 the Data Protection Division
 Saudi Aramco Oil Company

Stanford Center for Professional Development

The Stanford Center for Professional Development connects working professionals worldwide to the research and teaching of Stanford University faculty in the School of Engineering and related academic departments. Qualified individuals may study for master of science degrees on a part-time basis, pursue graduate certificates and professional certificates, take individual graduate courses and professional courses, participate in workshops, view free online seminars, and more. Courses are delivered online, on the Stanford campus in the heart of Silicon Valley, and at the work site.

Advanced Computer Security

Stanford Certificate Program



Stanford University
 Stanford Center for Professional Development
 496 Lomita Mall–Durand Building, 3rd Floor Lobby
 Stanford, CA 94305-4008

ONLINE
 anytime and anywhere

Strengthen your defenses

Learn how to protect networks,
secure electronic assets, prevent attacks,
and build invulnerable infrastructures.

Learn from the experts

Access the latest research and best practices from industry experts and world-renowned Stanford faculty.

Take a test drive

Hands-on lab exercises give you the opportunity to practice what you learn. Discover ways to put your new skills and knowledge to use.

Real-world value

Instructors evaluate real-world security attacks—learn what to do to stay ahead of the security curve.

Intensive learning format

Course material is condensed, relevant, and designed specifically for busy professionals. Learn it today, apply it tomorrow!

Networking opportunities

Network with peers, industry experts, and Stanford faculty in person or online via social networking tools. Search for “Stanford Advanced Computer Security” on Facebook and LinkedIn.

- ▶ scpd.stanford.edu/secure
- ▶ scpd-customerservice@stanford.edu
- ▶ 650.725.3016

Certificate Information

The Advanced Computer Security Certificate is earned after the successful completion of three required courses and three electives. Select courses are offered on the Stanford campus while other courses are available online year-round.

Required Courses

Security Protocols (XACS132)

Explore the security trade-offs in the design of security protocols and the vulnerabilities that arise when there are flaws in the design.

Using Cryptography Correctly (XACS130)

Take an approach to cryptography that avoids common programming errors that result in gaping security holes.

Writing Secure Code (XACS131)

Acquire techniques for developing new code as well as for discovering and mitigating vulnerabilities in existing code.

Elective Courses

Computer Security Management—Recent Threats, Trends, and the Law (XACS240)

Build security into your organization by understanding security design principles, emerging threats in the field, and policy.

Emerging Threats and Defenses (XACS301)

Take a technical walk-through of the latest security threats and evaluate the pros and cons of new defenses.

Securing Web Applications (XACS243)

Discuss the unique vulnerabilities of web applications and techniques to reduce vulnerability in the client-side environment.

Web Security 2.0: AJAX, Mashups, and Social Networking (XACS241)

Learn about the security threats and privacy violations spawned by emergent Web 2.0 technologies.

Special Elective

Software Security Foundations (XACS101)

Begin with the fundamentals: computer security principles, introduction to cryptography, and secure programming techniques. This special elective is available for participants who need to learn the basics of computer security or brush-up on their skills. *(We recommend that all participants start the program by taking this online course.)*

Instructors



Dan Boneh, PhD

Associate Professor of Computer Science and Electrical Engineering, Stanford University



Neil Daswani, PhD

Co-founder, Dasient, Inc.



John Mitchell, PhD

Professor of Computer Science and Electrical Engineering, Stanford University

Pricing

Online

Standard: \$495 (per course)

Discounts for groups are available by calling 650.725.3016.

Webinars

Stay current with trends in computer security. View free upcoming and on-demand webinars by visiting scpd.stanford.edu/secure