





## Hyperlinks to IA resources provided in CSC 433 Intrusion Detection taught by Dr. Allan Roth:

University of Illinois  
at Springfield



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08FA - INTRUSION DETECTION-ONC/MPUS (083CSC43312738) > COURSE DOCUMENTS


 Course Documents


**Coverage in IDS Ranum article**  
[Ranum\\_Coverage\\_in\\_IDS\\_White\\_Paper\\_final.pdf](#) (54.465 Kb)


**Bace and Mell ID publ**  
[nist\\_ids.pdf](#) (850.645 Kb)  
NIST publication on Intrusion Detection

**Extra Reading for class discussion**  
[kumar\\_spafford\\_a\\_pattern\\_matching\\_model\\_for\\_intrusion\\_detection.pdf](#) (199.986 Kb)  
A pattern matching model for misuse intrusion detection  
by Kumar and Spafford

**Guide to Intrusion Detection Systems**  
NIST Publication  
  
<http://csrc.nist.gov/publications/nistpubs/800-94/SP800-94.pdf>

**Testing Intrusion Detection Systems**  
NIST article  
<http://www.itl.nist.gov/lab/bulletns/bltnjul03.htm>

**Great Source of Security Information**  
Sans.org is a great source of Security information in General and Intrusion Detection/Prevention Specifically  
  
<http://www.sans.org/resources/idfaq/?ref=3741>

**Open Source for Intrusion Detection/Prevention Software**  
Source for the code and community rules for snort  
  
<http://www.snort.org/>

Done

## Hyperlinks to IA resources provided in CSC 570 Security Policy taught by Dr. Allan Roth:

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Computer Security Division :  
Computer Security Resource Center (CSRC)

Information  
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Laboratory

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National Institute of  
Standards and Technology

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Special Publication 800-12:  
  
Part I:  
Introduction & Overview  
  
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Elements of  
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Roles & Responsibilities  
  
[Chapter 4](#)

[For a printable copy of Chapter 5.](#)

Special Publication 800-12: An Introduction to Computer Security - The NIST Handbook

## Section II. Management Controls

### Chapter 5:

### COMPUTER SECURITY POLICY

In discussions of computer security, the term *policy* has more than one meaning.<sup>45</sup> *Policy* is senior management's directives to create a computer security program, establish its goals, and assign responsibilities. The term *policy* is also used to refer to the specific security rules for particular systems.<sup>46</sup> Additionally, *policy* may refer to entirely different matters, such as the specific managerial decisions setting an organization's e-mail privacy policy or fax security policy.

In this chapter the term *computer security policy* is defined as the "documentation of computer security decisions"-which covers all the types of policy described above.<sup>47</sup> In making these decisions, managers face hard choices involving resource allocation, competing

Policy means different things to different people. The term "policy" is used in this chapter in a broad manner to refer to important computer security-related decisions.

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07FA- INFORMATION SECURITY POLICY (073CSC57012807) > COURSE DOCUMENTS

### Course Documents



**National Strategy to Secure Cyberspace**  
<http://www.whitehouse.gov/pcipb/>



**National Strategy for the Physical Protection of Critical Infrastructures and Key Assets**  
<http://www.whitehouse.gov/pcipb/physical.html>



**National Infrastructure Protection Plan and sector specific plans**  
[http://www.dhs.gov/xprevprot/programs/editorial\\_0827.shtm](http://www.dhs.gov/xprevprot/programs/editorial_0827.shtm)



**Homeland Security Presidential Directive 7**  
Subject: Critical Infrastructure Identification, Prioritization, and Protection  
<http://www.whitehouse.gov/news/releases/2003/12/20031217-5.html>

## Hyperlinks to IA resources provided in CSC 570 Threat Management and Disaster Recovery taught by Dr. Allan Roth:

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08SP - THREAT MGMT/DISASTER RECOVERY-ONLINE (081CSC57012823) > COURSE DOCUMENTS

### Course Documents



#### **NIST Special Publications**

This folder includes  
NIST SP 800-30 Risk and Threat Management  
NIST SP 800-34 Disaster Recovery



#### **Mobile Device Risks**

[mobile device risks.pdf](#) (4.668 Mb)  
From SearchMobileComputing.com



#### **Improving Risk Management Video**

[ImprovingRiskManagement-Kim-Spafford.wmv](#) (5.765 Mb)

## Hyperlinks to IA resources provided in CSC 438 System Security and Information Assurance Capstone taught by Dr. Allan Roth:

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08FA - SYS SECURITY & INFO ASSURANCE-ONLINE (083CSC43812643) > COURSE DOCUMENTS

### Course Documents






#### **Information Source for CISSP Exam**

The International Information System Security Certification Consortium is good source for Information Security information and is the organization that maintains the Certified Information Systems Security Profession (CISSP) among others.

<http://www.isc2.org/>

**Hyperlinks to IA resources provided in CSC 570C Wireless Security taught by Dr. Lee:**

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UIS

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CSC570C (ON-CAMPUS) WIRELESS SECURITY (FALL 2008) (083CSC57012047) > EXTERNAL LINKS


 **External Links**

**Research Article Sources**


- IEEE Xplore (<http://ieeexplore.ieee.org/Xplore>)
- ACM Digital Library (<http://portal.acm.org/dl.cfm>)

**IEEE Standards**

- IEEE 802.11i-2004: Amendment 6: Medium Access Control (MAC) Security Enhancements (<http://standards.ieee.org/getieee802/download/802.11i-2004.pdf>)
- IEEE 802.1X Port-Based Network Access Control (<http://standards.ieee.org/getieee802/download/802.1X-2004.pdf>)

**WPA**

- The Wi-Fi Alliance (<http://wi-fi.org/>)
- WPA2 (Wi-Fi Protected Access 2) ([http://www.wi-fi.org/knowledge\\_center/wpa2](http://www.wi-fi.org/knowledge_center/wpa2))

**IETF RFCs**

- IETF RFC 2865 Remote Authentication Dial-In User Service (RADIUS) (<http://www.ietf.org/rfc/rfc2865.txt>)
- IETF RFC 3748 Extensible Authentication Protocol (EAP) (<http://www.ietf.org/rfc/rfc3748.txt>)
- IETF RFC 5246 The Transport Layer Security (TLS) Protocol Version 1.2 (<http://www.ietf.org/rfc/rfc5246.txt>)
- IETF RFC 2716 PPP EAP TLS Authentication Protocol (<http://www.ietf.org/rfc/rfc2716.txt>)
- IETF RFC 4186 Extensible Authentication Protocol Method for Global System for Mobile Communications (GSM) Subscriber Identity Modules (EAP-SIM) (<http://www.ietf.org/rfc/rfc4186.txt>)

## Hyperlinks to IA resources provided in CSC 570 Security in Computing taught by Dr. Braynov:

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TOPIC: SECURITY IN COMPUTING (051CSC57012019) > COURSE MATERIALS EDIT VIEW

### Course Materials

**Lecture 12: Backdoors and Trojans**  
Address Resolution Protocol (ARP) :  
<http://www.erg.abdn.ac.uk/users/gorry/course/inet-pages/arp.html>

pslist command-line tool is available at:  
[www.sysinternals.com](http://www.sysinternals.com)

promiscdetect tools is available at:  
<http://ntsecurity.nu/toolbox/promiscdetect/>

Site devoted to the fine art of wrappers:  
[www.tlsecurity.net/exebinder.htm](http://www.tlsecurity.net/exebinder.htm)

Free MD5 hash function written by Luke Pascoe from New Zealand  
<http://www.md5summer.org/>

Task Manager won't allow you to kill processes that have certain names:  
<http://users.aber.ac.uk/anw1/processes.html>

**Lecture 11 - Backdoors**  
Some useful tools I used in the lecture:  
[AutoRuns: Lists all automatically starting tasks on your Windows NT/2000/XP](#)  
[Netcat for Windows](#)  
[FPort: ports scanning tool](#)  
[TCPView: port scanner](#)

Articles about Windows Registry  
[Definition of the RunOnce Keys in the Registry](#)  
[Description of the Microsoft Windows registry](#)

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[Security Data, Gary McEwen and Ed Felt](#)  
The book has a special chapter on malicious applets: [Chapter 4](#)

 **Lecture 10: Viruses and Worms**

[Slammed! \(Story of Slammer worm\)](#)


**An Undetectable Computer Virus**  
[ChessWhite.pdf](#)

**S. Staniford et al., How to Own the Internet in Your Spare Time**  
[cdc.pdf](#)

**N. Weaver, A Taxonomy of Computer Worms**  
[taxonomy.pdf](#)

**Digging For Worms, Fishing For Answers**  
[68.pdf](#)

**B. Wiley, Curious Yellow**  
[malware\\_curious\\_yellow.pdf](#)

 **Lecture 9: Malware, stack overrun, and viruses**

**Useful links for buffer overflow:**

[Smashing The Stack For Fun And Profit, Aleph One.](#)  
[Buffer Overflows: Attacks and Defenses for the Vulnerability of the Decade](#), Crispin Cowan, et al.  
[StackGuard: Automatic Adaptive Detection and Prevention of Buffer-Overflow Attacks](#), Crispin Cowan, et al.

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[StackGuard: Automatic Adaptive Detection and Prevention of Buffer-Overflow Attacks](#), Crispin Cowan, et al

**Useful links for viruses:**

[SecurityFocus](#)  
[VirusList](#)

**Malware**

Standler, Ronald B. "[Examples of Malicious Computer Programs](#)." 2002.

Eugene Spafford. [A Failure to Learn from the Past](#). Annual Computer Security Applications Conference, 2003.

Daniel Geer, Rebecca Bace, Peter Gutmann, Perry Metzger, Charles Pfleeger, John Quarterereman and Bruce Schneier. [CyberInsecurity: The Cost of Monopoly ? How the Dominance of Microsoft's Products Poses a Risk to Security](#)

**Lecture 8: Steganography and Digital Watermarking**

[Fabien A. P. Petitcolas, Ross J. Anderson and Markus G. Kuhn. Information Hiding - A Survey. Proceedings of the IEEE, special issue on protection of multimedia content, 87\(7\):1062\(1078, July 1999.](#)

[Bender et al. Techniques for Data Hiding IBM Systems Journal, vol.35, nos 3&4, 1996](#)

[Fabien A. P. Petitcolas, Ross J. Anderson and Markus G. Kuhn. Information Hiding - A Survey. Proceedings of the IEEE, special issue on protection of multimedia content, 87\(7\):1062\(1078, July 1999.](#)

[Steganography and digital watermarks - INFOSYSSEC](#)

<http://www.cl.cam.ac.uk/%7EFapp2/publications/ieee99-infohiding.pdf> Internet

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Standler, Ronald B. "Examples of Malicious Computer Programs." 2002.

Eugene Spafford. *A Failure to Learn from the Past*. Annual Computer Security Applications Conference, 2003.

Daniel Geer, Rebecca Bace, Peter Gutmann, Perry Metzger, Charles Pfleeger, John Quarterman and Bruce Schneier. *CyberInsecurity: The Cost of Monopoly? How the Dominance of Microsoft's Products Poses a Risk to Security*

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[Bender et al. Techniques for Data Hiding. IBM Systems Journal, vol.35, nos 3&4, 1996](#)

[Fabien A. P. Petitcolas, Ross J. Anderson and Markus G. Kuhn, Information Hiding - A Survey, Proceedings of the IEEE, special issue on protection of multimedia content, 87\(7\):1062\(1078, July 1999.](#)

[Steganography and digital watermarks - INFOSYSSEC](#)

[Neil Johnson's page](#)

**Lecture 7: SSL**

[Netscape: SSL Version 3.0](#)

[Netscape: SSL](#)

[OpenSSL](#)

[SecureBlackBox](#)

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**Useful Links**

**Some useful links**

- [Security focus](#)
- [Phrack](#) Good reading for hackers, by hackers
- [Insecure.Org - Nmap Free Security Scanner, Tools & Hacking resources](#) be sure to check out Bugtraq
- [Ron Rivest's security links](#)
- [BSY's Security Related Net-Pointers](#)
- [Computer Security Institute](#)
- [NIST Computer Security Division](#)
- [Ross Anderson's homepage](#)
- [Defcon.com](#)

**Chapter 2 links**

[Improving the security of your site by breaking into it](#), Dan Farmer, Wietse Venema.

[An Evening With Berferd, in which a Hacker is Lured, Endured, and Studied](#), Bill Cheswick

[Federal computer crime laws](#)

[Digital Millenium Copyright Act](#)

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**Chapter 3 links**

- [NIST Computer Security Resource Center](#)
- [CISSP and SSCP Open Study Guides](#)
- [The ISO 17799 Service & Software Directory](#)
- [The ISO 17799 Directory](#)
- [The ISO 17799 Community Portal](#)
- [Risk Management Guide for Information Technology Systems, Recommendations of the National Institute of Standards and Technology](#)
- [Carnegie Mellon Software Engineering Institute](#)
- [Handbook of Information Security Management, Domain 3, ?Risk Management and Business Continuity Planning.? Micki Krause and Harold F. Tipton, Editors \(CRC Press LLC\)](#)
- [Security Metrics Guide for Information Technology Systems](#)
- [Threat and Risk Assessment Working Guide](#)
- [NCSA Security Policies and Procedures](#)
- [SANS Institute Security Policy Project](#)
- [Guide for Mapping Types of Information and Information Systems to Security Categories, Volume 1](#)
- [Handbook of Information Security Management, Domain 4, Chapter 4-1-1.](#)

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Guide for Mapping Types of Information and Information Systems to Security Categories, Volume 1

Handbook of Information Security Management, Domain 4, Chapter 4-1-1, Information Classification: A Corporate Implementation Guide,? by Jim Appleyard (CRC Press LLC)

NIST Administrative Manual, Subchapter 11.02, ?Information Technology Security?

Information Security Management Handbook, Domain 3, Chapter 3-5-3, Information Protection: Organization, Roles, and Separation of Duties,? by Rebecca Herold (CRC Press LLC, 2003)

**Chapter 4 links**

[Prevent race conditions](#)

[Digital Identity in Cyberspace](#)

[Biometrics consortium](#)

[A One-Time Password System](#)

[NIST: Smartcard](#)

[Smart cards: A primer](#)

[MIT:Kerberos](#)

[Intrusion Detection Terminology \(Part One\)](#)

[Honeynet](#)

**Chapter 5 links**

[the\\_reference\\_monitor\\_concept.pdf](#) (63.961 Kb)

[Useful links for buffer overflow](#)

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[Smashing The Stack For Fun And Profit, Aleph One.](#)

[Buffer Overflows: Attacks and Defenses for the Vulnerability of the Decade](#), Crispin Cowan, et al.

**Other useful links:**

[Unix/Linux Internals](#)

[Illustrated guide to RAM](#)

[Introduction to Virtual Memory](#)

[Security Models](#)

[Chapter 3.3, Models of OS Protection, by Fred Cohen](#)

[Orange Book](#)

[Red Book](#)

[ITSEC](#)

[Common Criteria](#)

**Chapter 7 links**

[OSI model from CISCO](#)

[www.protocols.com](#)

[Ultimate Guide to Networking: Part One](#)

[Token Ring](#)

[Address Resolution Protocol](#)

[Ethernet Bridges & Switches](#)

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