

The hyperlinks contained within this document are functional only when students are logged into the classroom. All topics are required reading unless indicated as recommended. Recommended items add additional context and knowledge related to the topics and projects, but not essential for completing the projects in the class.

CST620 Reading and Resource List

Project 1

Project 1 Step 1

Authentication

1. [NIST Special Publication 800-57 Part 1, Revision 3](#)
 2. [How to Authenticate Users with API Keys](#)
 3. [Key Management Cheat Sheet](#)
 4. [User Authentication with OAuth 2.0](#)
 5. [Centralized Authentication Using OpenLDAP](#)
 6. [Message Authentication Codes](#)
 7. [Has The Time Come to Kill the Password?](#)
 8. [Towards Secure and Dependable Message Authentication in WSN](#) Recommended
 9. [Message Authentication and Source Privacy in Wireless Networks](#) Recommended
 10. [Biometrics](#) Recommended
 11. [Security How-To: WPA2-Enterprise on Your Home Network](#) Recommended
 12. [Production Best Practices: Security](#) Recommended
 13. [Protecting Your System: User Access Security](#) Recommended
 14. [Authentication](#) Recommended
 15. [Top 10 2013-A2-Broken Authentication and Session Management](#) Recommended
 16. [OWASP Top 10 for .NET Developers Part 3: Broken authentication and Session Management](#) Recommended
 17. [Activity: Message Authentication](#) Recommended
 18. [Authentication Summary](#) Recommended
 19. [Multifactor Authentication Overview](#) Recommended
 20. [Authentication and Information Assurance](#) Recommended
 21. [Check Your Knowledge \(Test\)](#)
- #### Data at Rest
1. [NIST Assessment Cases- System and Communications Protection- Protection of Data at Rest](#)

Data in Motion

Insecure Handling

1. [WASC Threat Classification](#)
2. [Insecure Cryptographic Storage](#)
3. [Cyber Security Course: 19 Data in Transit. Learn Internet Security](#)
4. [Guide to Malware Incident Prevention and Handling for Desktops and Laptops](#)
5. [A Report on the Privilege \(Access\) Management Workshop](#)
6. [OWASP Backend Security](#)
7. [Industry Draft: NIST SP 800-118: Guide to Enterprise Password Management](#)
8. [Guide to Storage Encryption Technologies for End User Devices](#)
9. [Engineering Principles for Information Technology Security \(A Baseline for Achieving Security\), Revision A](#)
10. [Data Backup Options](#) Recommended
11. [NIST Assessment Cases- System and Communications Protection- Protection of Data at Rest](#) Recommended

Project 1 Step 3

Crypto Attacks

1. [Cyber Attacks Explained: Cryptographic Attacks](#)
2. [Shannon's Maxim](#)
3. [Kerckhoffs's principle \(Equivalent to Shannon's Maxim\)](#)
4. [Blind Birthday Attack](#)
5. [Enhanced Cryptography by Multiple Chaotic Dynamics](#)
6. [Encryption - CBC Mode IV: Secret or Not?](#)
7. [Chosen Ciphertext Attacks](#)
8. [XOR Known-Plaintext Attack](#)
9. [Known Plaintext](#)
10. [Chosen Plaintext](#)
11. [Vulnerability to Attack](#)
12. [Check Your Knowledge \(Test\)](#)

Project 1 Step 4

Uses of Encryption

1. [Full-Disk Encryption](#)
2. [Data Encryption](#)
3. [Full Disk Encryption on Linux](#)
4. [How To Use DM-Crypt to Create an Encrypted Volume on an Ubuntu VPS](#)
5. [Volume Encryption Supported by the Key Manager](#)

Hash Functions

2. The Hashing Process

3. Cryptographic Systems

Triple DES

21. Check Your Knowledge (Test)

2. Understanding Cryptology: Cryptanalysis

3. [Trial Encoding Algorithms Ensemble](#)
4. [Improved Differential-Linear Cryptanalysis of 7-Round Chaskey with Partitioning Public Key Infrastructure](#)
1. [Public Key Infrastructure](#)
2. [How Public Key Cryptography \(PKC\) Works](#)
3. [OpenVPN: Extended Verification of X.509 Client Certificates](#)
4. [Quantum Key Management](#)
5. [Check Your Knowledge \(Test\) x.509](#)

Project 1 Step 5

[Ciphers](#)

1. [Unit 3: Block Ciphers](#)
2. [Design and Implementation of a Secure Stream Cipher for Cryptographic Applications](#)
3. [Chapter 6 Stream Ciphers](#)
4. [Classical Cryptography](#)
5. [New Secure and Advanced Algorithm for StreamCiphers Extended RC4 and FPGA Implementation](#)
6. [Encrypting Using XOR and a Password](#)
7. [Attacks on Stream Ciphers](#)
8. [Two-Key Dependent Permutation for Use in Symmetric Cryptographic System](#)
9. [Cipher Scheme Hybrid Additive Cellular Automata](#)
10. [RC4 Stream Cipher and Possible Attacks on WEP](#)
11. [Transposition and Substitution in Ciphers](#)
12. [Caesar Shift Cipher](#)
13. [Cryptographic Systems](#)
14. [Block vs. Stream Ciphers](#)

Project 1 Step 7

[Digital Certificates](#)

1. [Certificate Authorities API – User Guide](#)
2. [Digital Signatures and Certificates](#)
3. [A Model of Certificate Revocation](#)
4. [Lecture 14: SSL and HTTPS](#)

Project 2

Project 2 Step 1

[Wireshark](#)

[User Datagram Protocol \(UDP\)](#)

[Transmission Control Protocol/Internet Protocol \(TCP/IP\)](#)

1. [Base of the Networking Protocol: TCP/IP Its Design and Security Aspects](#)
2. [Haktip 3: Packet Sniffing 101: Promiscuous Mode](#)
3. [TCP/IP: The Internet's Secret Sauce](#) Recommended
4. [TCP / IP Suite](#) Recommended
5. [Securing Computer Systems: TCP/IP Security](#) Recommended

[Internet Packets](#)

[IP Address Schemes](#)

1. [How To Isolate Servers Within A Private Network Using Iptables](#)
2. [Representing Data](#)
3. [Comparison Between Traditional IPNetworks/Routing and MPLs](#)
4. [Math Operations](#)

[Well-Known Ports and Applications](#)

1. [Check Your Knowledge](#)
- ### [Intrusion Detection & Prevention \(IDS/IPS\) Systems](#)

1. [Intrusion Detection Systems \(IDS\) by Marr Madden](#)
2. [Intrusion Detection Systems \(IDS\)](#)
3. [Intrusion Detection](#)
4. [False Positive Responses Optimization for Intrusion Detection System](#)
5. [A Model for Anomaly Classification in Intrusion Detection Systems](#)

[Firewalls](#) (Repeated for Convenience)

1. [Technological Safeguards](#)
2. [Types of Firewalls](#)
3. [Improving Network Security: Next Generation Firewalls and Advanced Packet Inspection Devices](#)
4. [What is a Firewall and How Does It Work?](#) Recommended
5. [Deep Packet Inspection Based on Many-Core Platform](#) Recommended
6. [Iptables Essentials: Common Firewall Rules and Commands](#) Recommended
7. [Creating Firewall Rules](#) Recommended
8. [Network Address Translation Reference](#) Recommended
9. [Guidelines on Firewalls and Firewall Policy](#) Recommended

Project 2 Step 2

[Cyberattacks](#) (Repeated for Convenience)

1. [A Reliable Image Watermarking Scheme Based on Redistributed Image Normalization and SVD](#)
2. [Collusion-Tolerable and Efficient Privacy-Preserving Time-Series Data Aggregation Protocol](#) Recommended

3. [Collusion-Resistant Audio Fingerprinting System in the Modulated Complex Lapped Transform Domain](#) Recommended
 4. [Covert Encryption and Document Authentication Using Texture Coding](#) Recommended
 5. [SQL Injection Prevention Cheat Sheet](#)
 6. [Cache Poisoning](#)
 7. [Robust Image Watermarking Theories and Techniques: A Review](#) Recommended
 8. [OWASP Periodic Table of Vulnerabilities – Cookie Theft/Session Hijacking](#) Recommended
 9. [Spoofing Attacks on Packets and Methods For Detection and Prevention of Spoofed Packets](#)
 10. [Detection and Modeling of Cyber Attacks with Petri Nets](#)
 11. [A Copyright Protection Scheme for Digital Images Based on Shuffled Singular Value Decomposition and Visual Cryptography](#) Recommended
 12. [Dual Watermarking For High Protective Copyright System](#)
 13. [DDoS Quick Guide](#) Recommended
 14. [DRAFT Guide to Cyber Threat Information Sharing](#) Recommended
 15. [Insecure Randomness](#) Recommended
 16. [Digital Watermarking](#) Recommended
 17. [Cyber Attacks Explained: Cryptographic Attacks](#)
 18. [Testing for Padding Oracle](#) Recommended
 19. [Stochastic Image Warping for Improved Watermark Desynchronization](#) Recommended
 20. [Video Multiple Watermarking Technique Based on Image Interlacing Using DWT](#) Recommended
- [Spoofing/Cache Poisoning Attacks](#) (Repeated for Convenience)
1. [Cyber Attacks Explained: Cryptographic Attacks](#)
 2. [Cache Poisoning](#)
 3. [Spoofing Attacks on Packets and Methods For Detection and Prevention of Spoofed Packets](#)
 4. [Spoofing/Cache Poisoning Attacks](#) Recommended
- [Man-in-The-Middle Attacks](#)
- [Honeypots](#)
- Project 2 Step 3**
- [False Positives and False Negatives](#)
- Project 2 Step 5**
- [Intrusion Detection & Prevention \(IDS/IPS\) Systems](#) (Repeated for Convenience)
1. [Intrusion Detection Systems \(IDS\) by Marr Madden](#)

2. [Intrusion Detection Systems \(IDS\)](#)
3. [Intrusion Detection](#)
4. [False Positive Responses Optimization for Intrusion Detection System](#)
5. [A Model for Anomaly Classification in Intrusion Detection Systems](#)
6. [Network Forensics Analysis](#)
1. [Check Your Knowledge \(Test\)](#)

Project 3

Project 3 Step 1

[Network Security Threats](#)

[Threat Modeling](#)

[Mobile Architectures](#)

[Application Security](#)

[Operating System Security](#)

1. [System and Kernel Security](#)
2. [How To Use the Linux Auditing System on CentOS 7](#)
3. [Ring \(Computer Security\)](#)
4. [Operating Systems Security: Protection Measures Analysis](#)
5. [A Security Adaptation Reference Monitor for Wireless Sensor Network](#)
6. [Security: An Advanced Introduction](#)
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6. [Guide to Computer Security Log Management](#)
7. [Crowdsourcing Cyber Security: A Property Rights View of Exclusion and Theft on the Information Commons](#)
8. [Securing the Home Energy Management Platform](#) Recommended
9. [OWASP Mobile Security Project Testing Guide](#)
10. [Mobile Platform Security](#)
1. [Enhancing Java ME Security Support with Resource Usage Monitoring](#)
2. [Security](#)
3. [Understanding Symbian Platform Security](#)

4. [Ten Steps to Smartphone Security \(Windows Phone\)](#)
5. [Ten Steps to Smartphone Security for Apple iOS](#)
6. [IOS Application Security Testing Cheat Sheet](#)
7. [Android Security Terrorization](#)
8. [Formal Analysis of Security Models for Mobile Devices, Virtualization Platforms, and Domain Name Systems](#)
[Mobile Protocols Security](#)
[Mobile Application and Architecture Considerations](#)

Project 3 Step 2

[Mobile VPN Security](#)

[Data at Rest](#)

1. [NIST Assessment Cases– System and Communications Protection– Protection of Data at Rest](#)
[Data in Motion](#)

Project 3 Step 3

[Threat Agent Identification Example](#)

[List of Threat Agents](#)

Project 3 Step 4

[Cyberattacks](#) (Repeated for Convenience)

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20. [Video Multiple Watermarking Technique Based on Image Interlacing Using DWT](#) Recommended

Project 4

Project 4 Step 1

[Security Development Life Cycle](#)

[Software Development Methodologies](#)

1. [Software Development Methodology](#)
2. [Agile Software Development](#)
3. [Waterfall Model](#)
4. [Joint Application Development \(IAD\)](#)
5. [Extreme Programming](#)
6. [Rapid Application Development \(RAD\)](#)
7. [Other Methods and Models](#)
8. [Check Your Knowledge \(Test\)](#)
[Critical Infrastructure Sectors](#)
[Process Control Systems: Cybersecurity and Defense](#)
[Threat Modeling](#)

Project 4 Step 2

[Software Quality Requirements Engineering \(SQUARE\)](#)

1. [Activity: Applying SQUARE](#)

Project 4 Step 3

[Database Models](#)

Project 4 Step 4

[Server Virtualization](#)

[Benefits and Features of Cloud Computing](#)

[Mobile Cloud Computing](#)

[Access Control](#) (Repeated for Convenience)

1. [Technological Safeguards](#)
2. [ID Management Issues and Requirements](#)

3. [NIST 800-53v4](#) (Pages F-7 through F-36)
4. [An Introduction to Role-Based Access Control](#)
5. [Attribute-based access control](#)
6. [Database Security & Access Control Models: A Brief Overview](#)
7. [Access Control as a Service for the Cloud](#)
8. [Security Information in Production and Operations: A Study on Audit Trails in Database Systems](#)
9. [State of the Art Authentication, Access Control, and Secure Integration in Smart Grid](#)
10. [RFID Privacy Risk Evaluation Based on Synthetic Method of Extended Attack Tree and Information Feature Entropy](#)
11. [Broken Access Control](#)
12. [Scientific World Journal](#) Recommended
13. [Dynamic Access Control Model for Security Client Services in Smart Grid](#) Recommended
14. [RFID Security Issues](#) Recommended
15. [Assessment of Access Control Systems](#) Recommended
16. [A Survey of Access Control Models](#) Recommended
17. [Cloud Multidomain Access Control Model Based on Role and Trust-Degree](#) Recommended
18. [Using Security Labels for Directory Access Control & Replication Control](#) Recommended
19. [OWASP Top 10 for .NET Developers Part 3: Broken authentication and Session Management](#) Recommended
20. [Check Your Knowledge \(Test\)](#)

Project 5

Project 5 Step 1

[Security Concerns Common to All RDBMS](#)

Project 5 Step 2

[Error Handling and Information Leakage](#)

1. [The 13 System And Information Integrity Assessment Cases: SI 11 Error Handling](#)
2. [Handling Errors](#)
3. [Error Handling](#)
4. [OWASP Secure Coding Practice Guide](#)
[Insecure Handling](#) (Repeated for Convenience)
1. [WASC Threat Classification](#)
2. [Insecure Cryptographic Storage](#)
3. [Cyber Security Course: 19 Data in Transit. Learn Internet Security](#)

4. [Guide to Malware Incident Prevention and Handling for Desktops and Laptops](#)
5. [A Report on the Privilege \(Access\) Management Workshop](#)
6. [OWASP Backend Security](#)
7. [Industry Draft: NIST SP 800-118: Guide to Enterprise Password Management](#)
8. [Guide to Storage Encryption Technologies for End User Devices](#)
9. [Engineering Principles for Information Technology Security \(A Baseline for Achieving Security\), Revision A](#)
10. [Data Backup Options](#) Recommended
11. [NIST Assessment Cases- System and Communications Protection- Protection of Data at Rest](#) Recommended
 - [Cross-Site Scripting \(XSS/CSRF\) Flaws](#)
 1. [You know about XSS. How about XSRF/CSRF?](#)
 2. [Countermeasures](#)
 - [SQL Injections](#)
 - [Insecure Configuration Management](#)
 1. [Using Wireless Technology Securely](#)
 2. [Small Office/Home Office Router Security](#)
 3. [Guide to Enterprise Patch Management Technologies](#)
 4. [Guide to General Server Security](#)
 5. [Insecure Configuration Management](#)
 6. [Cyber Security Planning Guide](#)
 7. [OWASP Backend Security](#)
 8. [Recommended Practice for Patch Management of Control Systems](#)
 9. [Guidelines on Firewalls & Firewall Policy](#)
 10. [Guide to General Server Security](#)
 11. [Guide for Security-Focused Configuration Management of Information Systems](#)
 - [Authentication](#) (Repeated for Convenience)
 1. [NIST Special Publication 800-57 Part 1, Revision 3](#)
 2. [How to Authenticate Users with API Keys](#)
 3. [Key Management Cheat Sheet](#)
 4. [User Authentication with OAuth 2.0](#)
 5. [Centralized Authentication Using OpenLDAP](#)
 6. [Message Authentication Codes](#)
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 11. [Security How-To: WPA2-Enterprise on Your Home Network](#) Recommended

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13. [Protecting Your System: User Access Security](#) Recommended
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 18. [Using Security Labels for Directory Access Control & Replication Control](#) Recommended
 19. [OWASP Top 10 for .NET Developers Part 3: Broken authentication and Session Management](#) Recommended
 20. [Check Your Knowledge \(Test\)](#)

Project 5 Step 3

Database Models

Common Criteria (CC) For Information Technology Security Evaluation

1. National Information Assurance Partnership (NIAP) Common Criteria Evaluation and Validation Scheme (CCEVS) Briefing to IAPB
2. A Common Criteria Primer
3. COTS Security Protection Profile–Operating Systems
4. Evaluation Assurance Levels for Human Resource Security of an Information System
5. Operating System Protection Profile
Evaluated Assurance Levels (EALs)
 1. Authentication and Information Assurance
 2. Operating System Protection Profile
Continuity of Service
 1. Business Continuity & Disaster Recovery Planning Domain
 2. Writing a Business Continuity Plan
 3. The Definitive Backup Guide
 4. Backup and Recovery
 5. Trusted Recovery From Information Attacks
 6. Trusted Recovery
 7. Backups, Redundancy, and the Cloud
Threats
 1. Mobile Threats–Device Based Threat Vectors
 2. Network–Based Threat Vector
 3. Check Your Knowledge (Test)

Project 5 Step 4

Defensive Principles

Enclave/Computing Environment (Repeated for Convenience)

1. Peer-to-Peer Enclaves for Improving Network Defence
2. Practice List For Information Security Management
3. Error Handling, Auditing, Logging
4. Security Control Overlays for Industrial Control Systems V1 2013
5. A Report on the Privilege (Access) Management Workshop
6. Guide to Computer Security Log Management
7. Crowdsourcing Cyber Security: A Property Rights View of Exclusion and Theft on the Information Commons
8. Securing the Home Energy Management Platform Recommended
Cyber Operations in DoD policy and Plans

1. [Cyber Operations in DOD Policy and Plans](#)
2. [Cyber Strategy – Department of Defense](#)
3. [Check Your Knowledge \(Test\)](#)

Project 5 Step 7

[Operating System Security](#) (Repeated for Convenience)

1. [System and Kernel Security](#)
2. [How To Use the Linux Auditing System on CentOS 7](#)
3. [Ring \(Computer Security\)](#)
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6. [Security: An Advanced Introduction](#)
7. [Error Handling, Auditing, and Logging](#)
8. [Using Proven Reference Monitor Patterns for Security Evaluation](#)
9. [Defense-in-Depth Models— Rings of Protection](#)

[Trusted Computing](#)

1. [Trusted Platform Module \(TPM\)](#)
2. [Introduction to Trusted Computing: TPM 101](#)
3. [Trusted Computing: Promise and Risk](#)
4. [A Survey on Authentication Techniques and User Recognition](#)
5. [Protecting Systems with the TPM](#)
6. [Protect Your Information from Physical Threats](#)
7. [Multiagent Systems Protection](#)
8. [Trusted Computing Strengthens Cloud Authentication](#)
9. [User Authentication](#)
10. [Memory Protection](#)

[Trusted Computing Base](#)

1. [Trusted Computing Strengthens Cloud Authentication](#)
2. [A Mobile and Portable Trusted Computing Platform](#)
3. [Inter-Process Communication](#)
4. [Memory Protection](#)

Project 5 Step 8

[Access Control](#) (Repeated for Convenience)

1. [Technological Safeguards](#)
2. [ID Management Issues and Requirements](#)
3. [NIST 800-53v4](#) (Pages F-7 through F-36)
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5. [Attribute-based access control](#)

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19. [Multifactor Authentication Overview](#) Recommended
20. [Authentication and Information Assurance](#) Recommended
21. [Check Your Knowledge \(Test\)](#)
[Multiple Independent Levels Of Security \(MILS\)](#)
 1. [Formal Specification and Verification of Data Separation in a Separation Kernel for an Embedded System](#)
 2. [A Secure System Architecture for Measuring Instruments in Legal Metrology; See Background Sections](#)
 3. [Implications of Multi-Core Architectures on the Development of Multiple Independent Levels of Security \(MILS\) Compliant Systems](#)
 4. [A New Operating System for Security Tagged Architecture Hardware in Support of Multiple Independent Levels of Security \(MILS\) Compliant System](#)
[Cybersecurity Models](#)
 1. [Cybersecurity Models](#)
 2. [Clark-Wilson Model](#)
 3. [The Biba Integrity Model](#)
 4. [Biba's Strict Integrity Policy Model](#)
 5. [Noninterference Model](#)
 6. [Graham-Denning Model](#)
 7. [Bell-LaPadula Model](#)
 8. [Bell LaPadula Model Part 1](#)
 9. [Chinese Wall Model](#)
 10. [Deducibility Security](#)
 11. [Clinical Information Systems Security Model](#)
 12. [Check Your Knowledge](#)
[Insecure Handling](#) (Repeated for Convenience)
 1. [WASC Threat Classification](#)
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 6. [OWASP Backend Security](#)
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 8. [Guide to Storage Encryption Technologies for End User Devices](#)

9. [Engineering Principles for Information Technology Security \(A Baseline for Achieving Security\), Revision A](#)
10. [Data Backup Options](#) Recommended
11. [NIST Assessment Cases– System and Communications Protection– Protection of Data at Rest](#) Recommended

Project 5 Step 9

[Access Control](#) (Repeated for Convenience)

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2. [ID Management Issues and Requirements](#)
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10. [Biometrics](#) Recommended
11. [Security How-To: WPA2-Enterprise on Your Home Network](#) Recommended
12. [Production Best Practices: Security](#) Recommended
13. [Protecting Your System: User Access Security](#) Recommended
14. [Authentication](#) Recommended
15. [Top 10 2013-A2-Broken Authentication and Session Management](#) Recommended
16. [OWASP Top 10 for .NET Developers Part 3: Broken authentication and Session Management](#) Recommended
17. [Activity: Message Authentication](#) Recommended
18. [Authentication Summary](#) Recommended
19. [Multifactor Authentication Overview](#) Recommended
20. [Authentication and Information Assurance](#) Recommended
21. [Check Your Knowledge \(Test\)](#)
[Direct Object Access](#)
1. [OWASP Top 10 for .NET Developers Part 6: Security Misconfiguration](#)
2. [Building a LAMP Server](#)
3. [OWASP Top 10 for .NET Developers Part 4: Insecure Direct Object Reference](#)
4. [OWASP Top 10 for .NET Developers Part 10: Unvalidated Redirects and Forwards](#)
5. [The Ruby UCSC API: Accessing the UCSC Genome Database Using Ruby](#)
6. [Defending vulnerable security protocols by means of attack interference in non-collaborative scenarios](#)
7. [Practical Attacks on Mobile Cellular Networks and Possible Countermeasures](#)
8. [Grid-Control Post Implementation Configuration Guide](#)

Project 5 Step 10

[Guidelines for a Test and Remediation Results \(TPRR\) Report](#)