

CNIT 125: Information Security Professional (CISSP Preparation)

Spring 2018 Sam Bowne

[Schedule](#) · [Slides](#) · [Links](#)

38396 Tue 6-9 MUB 388

[Scores](#)

Catalog Description

Covers information security in depth, including access control, application security, business continuity, cryptography, risk management, legal issues, physical security, and telecommunications and network security. This class helps to prepare students for the Certified Information Systems Security Professional (CISSP) credential, which is essential for

high-level information security professionals.

Advisory: Students should have taken CNIT 123, or hold the Certified Ethical Hacker credential, or have equivalent knowledge of basic security.

Upon successful completion of this course, the student will be able to:

- A. Explain security and risk management.
- B. Define and implement access controls.
- C. Assess application security.
- D. Plan for business continuity and disaster recovery.
- E. Apply cryptography correctly to protect information.
- F. Explain legal regulations and ensure compliance.
- G. Perform investigations, preserve evidence, and cooperate with law enforcement authorities.
- H. Explain codes of conduct and ethical issues.
- I. Maintain security of operations.
- J. Assess physical and environmental security.
- K. Design security architecture.
- L. Explain telecommunications and network security.

Textbook

"CISSP Study Guide, Third Edition"; by Eric Conrad, Seth Misenar, Joshua Feldman; ISBN-10: 0128024372 [Buy from Amazon \(\\$45\)](#)

Quizzes

The quizzes are multiple-choice, online, and open-book. However, you may not ask other people to help you during the quizzes. You will need to study the textbook chapter before the lecture covering it, and take the quiz before that class. Each quiz is available for one week, up 30 minutes before class. Each quiz has 5 questions, you have ten minutes to take it, and you can make two attempts. If you take the quiz twice, the higher score counts.

To take quizzes, go here: <https://canvas.instructure.com/courses/1277338>

To create an account, click the "Join this Course" link, which is either on the right side or the bottom of the page, as shown below.



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View Course Stream

Join this Course

Live Streaming

Live stream at: <http://www.ccsf.edu/en/educational-programs/school-and-departments/school-of-liberal-arts/broadcast-electronic-media-arts/EATV/webcasts.html>

Classes will also be recorded and published on YouTube for later viewing.

Kahoot and Zoom

The Kahoot competitions don't work well with the CCSF livestream, because it has a delay. For them, use Zoom:

<https://zoom.us/j/4108472927> Meeting ID: 410-847-2927

Schedule

Date

Quiz

Topic

Tue 1-16

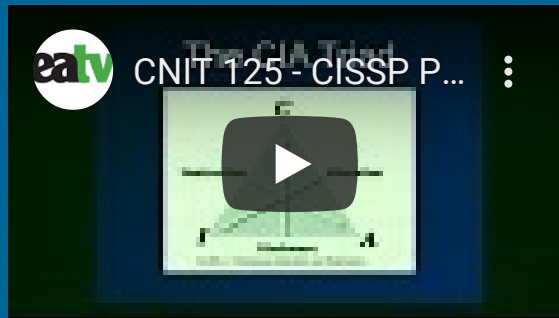
Ch 1. Introduction to CISSP
Class Structure: Accountability and Expectations
Introductions



Tue 1-23

Ch 2 (Part 1) Quiz * ***

Ch 2. Security and Risk Management (Part 1)
Managers present pitches; students join teams
First group meeting; Task 1 assigned **



Tue 1-30

No Quiz Due
Task 1 due (extra credit)

6:00 - 7:30 PM: [Infosession for the CCSF Information Security Analyst Apprenticeship](#)
in MUB 140



Fri 2-2

Last day to add

Tue 2-6

**Ch 2 (Part 2) Quiz *
Task 2 due**

**Ch 2.Security and Risk Management (Part 2)
Group meetings; Task 3 assigned ****



Tue 2-13

**Ch 3 Quiz *
Task 3 due**

**Ch 3. Asset Security
Group meetings; Task 4 assigned **
*Managers' Performance Review 1***



Tue 2-20

Ch 4 (Part 1) Quiz*
Task 4 due

Ch 4. Security Engineering (Part 1)
Group meetings; Task 5 assigned **
Early Presentations 1



Tue 2-27

Ch 4 (Part 2) Quiz*
No Task due

Ch 4. Security Engineering (Part 2)
Normal Presentations 1



Tue 3-6

Flex Day: No Class

Tue 3-13

Ch 5 (Part 1) Quiz*
Task 5 due

Ch 5. Communication and Network Security (Part 1)
Group meetings; Task 6 assigned **
Late Presentations 1



Tue 3-20

No Quiz
No Task due

Guest Speaker: Tim Ryan, Technical Operations Manager, CCSF



Tue 3-27

Spring Recess: No Class

Tue 4-3

Ch 5 (Part 2) Quiz*
Task 6 due

Ch 5. Communication and Network Security (Part 2)
Group meetings; Task 7 assigned **

Managers' Performance Review 2



Tue 4-10

Ch 6 Quiz*
Task 7 due

Last section of Ch 5 & Ch 6. Identity and Access Management
Group meetings; Task 8 assigned **



Tue 4-17

Ch 7 Quiz*
Task 8 due

Ch 7. Security Assessment and Testing & Start of Ch 8
Group meetings; Task 9 assigned **



Tue 4-24

Ch 8 Quiz*
Task 9 due

Ch 8. Security Operations
Early Presentations 2



Tue 5-1

Ch 9 Quiz*
No Task due

Ch 9. Software Development Security
Normal Presentations 2

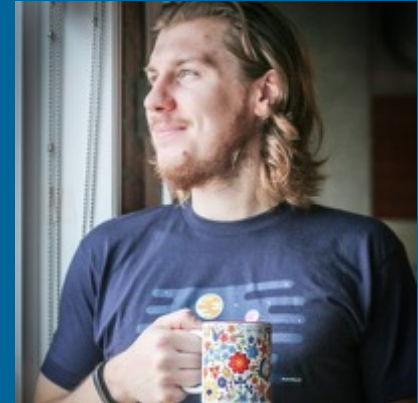


Tue 5-8

No Quiz
No Task due

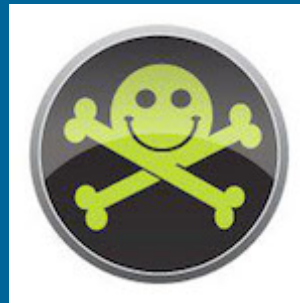
Guest Speaker: Jakub (Kuba) Sendor, Security at Yelp

This talk will be livestreamed and recorded!



Tue 5-15

Class Cancelled for [DEF CON China](#)



Thu 5-17 through Wed 5-23

Final exam available online: 1 hour, only one attempt

- * Quizzes are online, and are due 30 min. before class. Penalty: -2 pts. for being late
- ** Tasks should require 1-2 hours of work
- *** No late penalty until Feb 6

Slides

[First-day handout \(pdf\)](#) · [Policy \(pdf\)](#)

[Ch 1. Introduction to CISSP](#) · [KEY](#) · [PDF](#)

[Ch 2. Security and Risk Management \(Part 1\)](#) · [KEY](#) · [PDF](#)

[Ch 2. Security and Risk Management \(Part 2\)](#) · [KEY](#) · [PDF](#)

[Ch 3. Asset Security](#) · [KEY](#) · [PDF](#)

[Ch 4. Security Engineering \(Part 1\)](#) · [KEY](#) · [PDF](#)

[Ch 4. Security Engineering \(Part 2\)](#) · [KEY](#) · [PDF](#)

[Ch 5. Communication and Network Security \(Part 1\)](#) · [KEY](#) · [PDF](#)

[Ch 5. Communication and Network Security \(Part 2\)](#) · [KEY](#) · [PDF](#)

[Ch 6. Identity and Access Management](#) · [KEY](#) · [PDF](#)

[Ch 7. Security Assessment and Testing](#) · [KEY](#) · [PDF](#)

[Ch 8. Security Operations](#) · [KEY](#) · [PDF](#)

[Ch 9. Software Development Security](#) · [KEY](#) · [PDF](#)

Click a lecture name to see it on SlideShare.

To convert from KEY to PPT, use [Cloud Convert](#).

Links

Introduction to CISSP and CNIT 125

[CISSP 1: CISSP Education & Certification](#)

[CISSP 2: \(ISC\)2 | Certified Information Security Education](#)

[CISSP 3: CISSP was the third highest salaried certification in 2009](#)

[CISSP 4: DOD 8570 requires CISSP, Sec+, and other certs for all gov't Information Assurance employees](#)

[CISSP 5: CISSP exam prices](#)

[CISSP 6: \(ISC\)2 Code of Ethics](#)

[CISSP 7: Associate of \(ISC\)² Certification](#)

[CISSP 8: SSCP Education & Certification](#)
[CISSP 9: Exam Prices \(pdf\)](#)
[CISSP 10: Test Prep: 10 Tips For Preparing and Passing the CISSP Exam](#)
[CISSP 11: How to get continuing education credit for CISSP certification holders](#)
[CISSP 12: GIAC Research in the Common Body of Knowledge -- Good white papers for the ten CISSP domains](#)
[CISSP 13: DoD Directive 8570.1 M - DoD Approved Baseline Certifications](#)
[CISSP 14: Associate of \(ISC\)^2 FAQ](#)
[CISSP 15: 7 Types of Hard CISSP Exam Questions and How To Approach Them](#)
[CISSP 16: How I Prepared for the CISSP Exam--Sam Bowne](#)
[CISSP 17: A CISSP Study Plan Memoir](#)
[CISSP 18: CISSP Practice Test](#)
[CISSP 19: San Francisco Bay Area ISSA--CISSP Study Sessions](#)
[CISSP 20: CPE Requirements](#)
[CISSP 21: \(ISC\)^2 SF Chapter](#)
[CISSP 22: Average CISSP Salary 2017](#)
[CISSP 23: Exam Prices 2017](#)
[CISSP 24: Dilbert : How the CISSP Exam was Written](#)
[CISSP 25: Your Guide to the Certified Information Systems Security Professional \(CISSP\) Exam](#)
[CISSP 26: Transcender Practice Exam](#)

Links for Chapter Lectures

[Ch 2a: Octomom's hospital records accessed, 15 workers fired \(from 2009\)](#)
[Ch 2b: Three Primary Analytics Lessons Learned from 9/11 \(2012\)](#)
[Ch 2c: The Shadow Factory: The NSA from 9/11 to the Eavesdropping on America: James Bamford: 9780307279392: Amazon.com: Books](#)
[Ch 2d: Chelsea Manning explains why she leaked secret military documents, fought for transgender rights behind bars](#)
[Ch 2e: WikiLeaks Q & A: who is Bradley Manning and what did he do?](#)
[Ch 2f: Chelsea Manning - Wikipedia](#)

[Ch 4a: Memory segmentation - Wikipedia](#)
[Ch 4b: Trusted Computer System Evaluation Criteria - Wikipedia](#)
[Ch 4c: Internet of Shit \(@internetofshit\) | Twitter](#)
[Ch 4d: OWASP Top Ten Project](#)
[Ch 4e: Secret Service codename - Wikipedia](#)
[Ch 4f: Pretty Rindjael Animation](#)
[Ch 4g: IPsec - Wikipedia](#)

[Ch 5a: 64-bit Global Identifier \(EUI-64\)](#)
[Ch 5b: How FTP port requests challenge firewall security](#)
[Ch 5c: Online Dig | Men & Mice](#)

[Ch 6a: Call It Super Bowl Face Scan I \(From 2001\)](#)
[Ch 6b: Obama Eyeing Internet ID for Americans \(from 2011\)](#)

[Ch 9a: Metasploit Module Source Code in Ruby](#)

Other Links

[A Beginner's Guide to Data Compliance](#)
[HIPAA certification HCISPP vs CSCO](#)
[Certified Security Compliance Specialist](#)
[How to Reverse Engineering with Radare2 -- INTERESTING FOR PROJECTS](#)
[COBIT 5 Laminar](#)
[Describe the main differences in due diligence and due care](#)
[DREAD \(risk assessment model\) - Wikipedia](#)
[US-EU Safe Harbor Data-Transfer Talks Enter Final Week \(1-25-16\)](#)
[Separation of Duties in Information Technology](#)

New Unsorted Links

[Ch 2g: U.S.-EU & U.S.-Swiss Safe Harbor Frameworks](#)
[Ch 2h: Privacy Shield](#)
[Ch 2i: Privacy Shield -- Is Safe Harbour's Replacement Up To The Job In 2017? \(May, 2017\)](#)
[ISC2 Launches New CISSP Exam Format to Help Bring More Cybersecurity Professionals into the Field](#)
[Ideas for Student Projects 2017](#)
[Official \(ISC\)² CISSP Study App](#)
[SpiderMonkey -- Deobfuscates JavaScript Malware ty @lennyzeltser #IRespondCon](#)
[CISSP 27: CASP vs. CISSP: The Real Fight Is For Candidates' Attention](#)
[Top 20 CIS Critical Security Controls \(CSC\) You Need to Implement](#)
[OWASP Top 10 Security Risks - Part V](#)
[The Phoenix Project](#)

