

Last Updated: May 3, 2021

MSIT-IS Degree Specific Course List

This list provides degree specific core courses that have been approved by the department for MSIT-Information Security students.

The INI cannot guarantee that courses will be offered each semester or in a specific semester as advertised below. Likewise, the location listed is not guaranteed as campus course offerings constantly change. Students must refer to the 'Schedule of Classes' to determine course availability. In addition, the INI cannot guarantee that a student will be offered a seat in a specific course. These apply to courses at the INI as well as other departments at Carnegie Mellon. Students should always register under the INI course number (14-XXX) if a course is cross-listed with other departments. The numbers for cross-listed courses are provided to the right of the course titles below.

Please note: Course numbers and titles may change. If you notice such a change, please let the INI AAO know prior to enrolling in a course.

Spring

05-836 Usable Security and Privacy (PIT, 12 units)
14-735 Secure Coding (PIT & Broadcast to SV, 12 units)
14-761 Applied Information Assurance (PIT, 12 units)
14-782 Information Security Risk Management I (PIT, 6 units)
14-784 Information Security Risk Management II (PIT, 6 units)
14-788 Information Security Policy and Management (PIT, 6 units)
14-814 Wireless Network Security (SV & Broadcast to PIT, 12 units) (cross-listed 18-637)
14-817 Cyber Risk Modeling (SV & Broadcast to PIT, 12 units)
14-819 Introduction to Software Reverse Engineering (PIT & Broadcast to SV, 12 units)
14-822 Host-Based Forensics (PIT & Broadcast to SV, 12 units)
14-828 Browser Security (PIT & Broadcast to SV, 12 units)
14-850 INSuRE Cybersecurity Research (SV & Broadcast to PIT, 12 units)
15-811 Verifying Complex Systems (PIT, 12 units)
18-632 Introduction to Hardware Security (PIT & Broadcast to SV, 12 units)
18-731 Network Security (PIT & Broadcast to SV, 12 units)
18-732 Secure Software Systems (PIT & Broadcast to SV, 12 units)
18-733 Applied Cryptography (PIT & Broadcast to SV, 12 units)
19-733 Cryptocurrencies, Blockchains and Applications (PIT, 12 units) (cross-listed 17-703)
94-806 Privacy in the Digital Age (PIT, 6 units)
95-883 Ethical Penetration Testing (PIT, 6 units)

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Fall

- 14-761 Applied Information Assurance (PIT, 12 units)
- 14-809 Introduction to Cyber Intelligence (PIT, 12 units)
- 14-823 Network Forensics (PIT, 12 units)
- 14-829 Mobile and IoT Security (SV & Broadcast to PIT, 12 units) (cross-listed 18-638)
- 14-850 INSuRE Cybersecurity Research (SV & Broadcast to PIT, 12 units)
- 15-856 Introduction to Cryptography (PIT, 12 units)
- 18-734 Foundations of Privacy (PIT & Broadcast to SV, 12 units) (cross-listed 17-731)
- 18-737 Special Topics in Computer Systems (SV, 12 units) (Fall 2019 only)
- 19-608 Privacy, Policy, Law and Technology (PIT, 12 units) (cross-listed 17-733 & 95-818)
- 94-806 Privacy in the Digital Age (PIT, 6 units)
- 95-883 Ethical Penetration Testing (PIT, 6 units)

PIT: CMU Campus in Pittsburgh, PA
SV: CMU Campus in Silicon Valley, CA

When enrolled in courses that are broadcasted students at both locations attend the classes synchronously.

VERSION TABLE

*Notates dates courses were added or removed from the list.

VERSION/ Date posted	ADDED/ REMOVED	COURSE NUMBER
1.0 1-22-15	ADDED	05-836
2.0 4-28-15	ADDED	14-809
3.0 9-14-16	ADDED	14-850
	REMOVED	19-635
4.0 1-25-17	ADDED	14-828
5.0 8-7-17	ADDED	15-811,18-632
	REMOVED	14-817, 14-846, 14-847
6.0 8-23-18	ADDED	95-883
7.0 5-6-19	ADDED	18-737 (Fall 19 only), 19-733

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8.0 8-17-20	ADDED	15-856
9.0 5-3-21	ADDED	14-817