

MSIT-IS Restricted Electives

This list provides courses that have been approved by the department for MSIT-IS 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 email ini-academic@andrew.cmu.edu prior to enrolling in a course.***

- 14-684 Cyber Law and Ethics (PIT, 6 units)
- 14-735 Secure Coding (PIT & Broadcast to SV, 12 units)
- 14-742 Security in Networked Systems (SV & Broadcast to PIT, 12 units)
- 14-757 Introduction to Machine Learning with Adversaries in Mind (SV & Broadcast to PIT, 12 units)
- 14-761 Applied Information Assurance (PIT & Broadcast to SV, 12 units)
- 14-795 AI Applications in Information Security (PIT & Broadcast to SV, 12 units)
- 14-817 Cyber Risk Modeling (PIT & Broadcast to SV, 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)
- 14-823 Network Forensics (PIT & Broadcast to SV, 12 units)
- 14-828 Browser Security (PIT & Broadcast to SV, 12 units)
- 14-829 Mobile and IoT Security (SV & Broadcast to PIT, 12 units)
- 15-793 Secure Computer Systems (PIT, 12 units)
- 15-856 Introduction to Cryptography (PIT, 12 units)
- 17-731 Foundations of Privacy (PIT, 12 units) (cross-listed 18-734)
- 17-734 Usable Security and Privacy (PIT, 12 units) (cross-listed 05-836)
- 17-735 Engineering Privacy in Software (PIT, 12 units) (cross-listed 19-605)
- 18-632 Introduction to Hardware Security (PIT, 12 units)
- 18-731 Network Security (PIT, 12 units)
- 18-732 Secure Software Systems (PIT, 12 units)
- 18-733 Applied Cryptography (PIT, 12 units)
- 19-608 Privacy, Policy, Law, and Technology (PIT, 12 units) (cross-listed 17-733)
- 19-733 Cryptocurrencies, Blockchains and Applications (PIT, 12 units) (cross-listed 17-703)
- 95-746: Cloud Security (PIT, 6 units)
- 95-883 Ethical Penetration Testing (PIT, 6 units)

Last Updated: 5-31-26

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

VERSION TABLE

VERSION/ Date posted	ADDED/ REMOVED	COURSE NUMBER
1-22-15	ADDED	05-836
4-28-15	ADDED	14-809
9-14-16	ADDED	14-850
	REMOVED	19-635
1-25-17	ADDED	14-828
8-7-17	ADDED	15-811,18-632
	REMOVED	14-817, 14-846, 14-847
8-23-18	ADDED	95-883
5-6-19	ADDED	18-737 (Fall 19 only), 19-733
8-17-20	ADDED	15-856
5-3-21	ADDED	14-817
7-1-21	ADDED	14-642
7-1-22	ADDED	14-742, 17-735
	REMOVED	14-809, 14-814, 18-737, 14-642, 15-811
5-22-23	ADDED	14-757, 14-789, 14-684, 95-746 , 14-795

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	REMOVED	14-784
5-31-25	ADDED	15-793
11-14-25	REMOVED	94-806
5-31-26	REMOVED	14-788, 14-782 (no longer offered)