

Last Updated: 9-9-2022

MSIN Degree Specific Core Course List

Note: 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. These courses are 12 units unless otherwise noted.

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.

- 10-601 Introduction to Machine Learning
- 10-605 Machine Learning with Large Datasets
- 10-701 Introduction to Machine Learning (PhD)
- 11-663 Applied Machine Learning (cross-listed 05-834)
- 14-741 Introduction to Information Security
- 14-744 Mobile and Embedded Software Design
- 14-760 Advanced Real-World Data Networks
- 14-819 Introduction to Software Reverse-Engineering
- 14-829 Mobile & IoT Security
- 14-848 Cloud Infrastructure and Services
- 15-605 Operating System Design and Implementation
- 15-611 Compiler Design
- 15-612 Operating System Practicum
- 15-618 Parallel Computer Architecture and Programming
- 15-619 Cloud Computing
- 15-641 Networking and the Internet
- 15-645 Database Systems

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15-712 Advanced Operating Systems and Distributed Systems

15-719 Advanced Cloud Computing (cross-listed 18-709)

15-740 Computer Architecture

15-744 Computer Networks

15-745 Optimizing Compilers for Modern Architectures

18-645 How to Write Fast Code

18-648 Real-Time Embedded Systems

18-649 Distributed Embedded Systems

18-730 Introduction to Computer Security

18-731 Network Security

18-732 Secure Software Systems

18-740 Modern Computer Architecture and Design

18-746 Storage Systems (cross-listed 15-746)

18-748 Wireless Sensor Networks

18-750 Wireless Networks and Applications

18-756 Packet Switching and Computer Networks

18-757 Network Management and Control

18-758 Wireless Communications

18-845 Internet Services

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VERSION TABLE

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

Date	ADDED/REMOVED	COURSES
6-16-15	ADDED	10-601, 14-819, 15-611, 15-612, 15-615, 15-618, 15-619, 15-640, 15-641, 15-740, 15-745, 18-645, 18-740
9-14-16	ADDED	10-701, 15-719 18-749
1-25-17	ADDED	11-663, 15-605
8-7-17	ADDED	15-645
8-21-17	REMOVED	19-712, 19-713, 19-608, 14-817, 18-739A, 18-739C, 18-799K, 18-859, 18-859C, 18-859H, 18-859K, 18-794, 18-798, 18-630, 14-827, 14-837
8-30-17	ADDED	14-848
12-13-17	REMOVED	15-640, 18-749, 18-842
10-25-18	ADDED	14-760
5-6-19	ADDED	18-651
8-10-21	REMOVED	14-841, 14-840, 15-641, 18-759
	ADDED	14-744, 18-750
7-1-22	REMOVED	14-814, 15-615, 15-839, 18-651
	ADDED	15-641
9-9-22	ADDED	10-605