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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

10-701 Introduction to Machine Learning (PhD)

11-663 Applied Machine Learning

14-741 Introduction to Information Security (cross-listed 18-631)

14-760 Advanced Real-World Data Networks

14-814 Wireless Network Security (cross-listed 18-637)

14-819 Introduction to Software Reverse-Engineering

14-829 Mobile & IoT Security (cross-listed 18-638)

14-840 Mobile Hardware for Software Engineers (cross-listed 18-644)

14-841 Mobile and Pervasive Computing (cross-listed 15-821, 18-843)

14-848 Cloud Computing Infrastructure and Applications

15-605 Operating System Design and Implementation

15-611 Compiler Design

15-612 Operating System Practicum

15-615 Database Applications

15-618 Parallel Computer Architecture and Programming

15-619 Cloud Computing

15-641 Computer Networks

15-645 Database Systems

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15-712 Advanced Operating Systems and Distributed Systems

15-719 Advanced Cloud Computing

15-740 Computer Architecture (cross-listed 18-640)

15-744 Computer Networks

15-745 Optimizing Compilers for Modern Architectures

15-839 Mobile and Wireless Communications (not offered every year)

18-645 How to Write Fast Code

18-648 Real-Time Embedded Systems

18-649 Distributed Embedded Systems

18-651 Networked Cyber-Physical Systems

18-730 Introduction to Computer Security

18-731 Network Security

18-732 Secure Software Systems

18-740 Computer Architecture (cross-listed 18-640)

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

18-748 Wireless Sensor Networks

18-756 Packet Switching and Computer Networks

18-757 Network Management and Control

18-759 Wireless Networks

18-845 Internet Services

18-758 Wireless Communications

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VERSION TABLE

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

Date	ADDED/REMOVED	COURSES
1.0 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
2.0 9-14-16	ADDED	10-701, 15-719 18-749
3.0 1-25-17	ADDED	11-663, 15-605
4.0 8-7-17	ADDED	15-645
5.0 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
6.0 8-30-17	ADDED	14-848
7.0 12-13-17	REMOVED	15-640, 18-749, 18-842
8.0 10-25-18	ADDED	14-760
9.0 5-6-19	ADDED	18-651