MSMITE Degree-Specific Core Courses

This list provides MSMITE degree specific core courses that have been approved by the department. 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
05-670: Digital Service Innovation (PIT, 12 units)
05-833: Gadgets, Sensors & Activity Recognition in HCI (PIT, 12 units)
05-872: Rapid Prototyping of Computer Systems (PIT, 12 units, cross-listed 05-540, 18-745, 18-540, 39-648)
08-735: Building User-focused Sensing Systems (PIT, 12 units)
14-642: Fundamentals of Embedded Systems (PIT, 12 units)
14-736: Distributed Systems: Techniques, Infrastructure and Services (PIT & Broadcast to SV, 12 units)
14-760: Advanced Real-World Data Networks (PIT & Broadcast to SV, 12 units)
14-841: Mobile & Pervasive Computing (SV, 12 units) (cross-listed 18-843)
17-781: Mobile and IoT Computing Services (PIT, 12 units)
18-651: Networked Cyber-Physical Systems (PIT, 12 units)
18-744: Connected Embedded Systems Architecture (SV, 12 units)
18-748: Wireless Sensor Networks (PIT, 12 units)
18-759: Wireless Networks (PIT, 12 units)
49-788: Mobile Apps for the Internet of Things (SV, 12 units)

Summer
08-723: Mobile Application Development for iOS and Android (PIT, 6 units)
49-788: Mobile Apps for the Internet of Things (SV, 12 units)
Fall
05-670: Digital Service Innovation (PIT, 12 units)
05-833: Gadgets, Sensors & Activity Recognition in HCI (PIT, 12 units)
08-736: Pervasive and Ubiquitous Computing (PIT, 12 units)
14-642: Fundamentals of Embedded Systems (PIT, 12 units)
14-829: Mobile and IoT Security (SV & Broadcast to PIT, 12 units) (cross-listed 18-638)
14-840: Mobile Hardware for Software Engineers (SV, 12 units) (cross-listed 18-644)
14-841: Mobile & Pervasive Computing (SV, 12 units) (cross-listed 18-843)
15-624: Logical Foundations of Cyber-Physical Systems (PIT, 12 units)
15-640: Distributed Systems (PIT, 12 units)
16-722: Sensing and Sensors (PIT, 12 units)
17-728: Machine Learning and Sensing (PIT, 12 units)
18-747: Wireless Device Architecture (SV, 12 units)