M.S. Information Technology Graduation Requirements 2016-2017

5000-Level Foundation Courses (12 hours)

Students can request institutional credit for a foundation course if: the equivalent undergraduate or graduate course was completed within the last ten years in another accredited college or university with a grade of "C" or better. Other students may satisfy Foundation courses by passing an exam during a designated time **prior** the first semester of enrollment or by taking these courses.

IT 5413 Software Design and Development (3 hours)	IT 5433 Databases: Design and Applications (3 hours)
IT 5423 Comp. Architecture, Operating Sys., and Networks (3 hours)	IT 5443 Web Technologies and App Development (prereq IT5413) (3 hours)

Required Core Courses (15 hours)

IT 6203 IT Design Studio (prereqs IT5433 & IT5443) (3 hours)	IT 6823 InfoSecurity Concepts & Admin.(prereq IT5423) (3 hours)
IT 6413 IT Service Delivery (prereq IT5423) (3 hours)	IT 7833 IT Strategy and Policy (co-req IT6203) (3 hours)
IT 6423 IT Sys Acquisition & Integr(prereq IT5413) (3 hours)	

Elective Courses (21 credit hours)

You must take at least ONE of the courses marked with ** as part of the total 21 hours of elective courses. Maximum of 3 electives might be in SWE, CS, IDC or MGNT, no more than two courses from the same department, subject to Credit for Duplicate Courses policy and course prerequisites.

IT 6103 IT and the Law (co-req IT6413 or IT6423) (3 hours)	** IT 6753 Adv Web Concepts & Apps (IT5433 & IT5443) (3 hours)
IT 6473 Multimedia Applications (prereq IT5433) (3 hours)	IT 6763 Electronic Commerce (prereq IT5433 & IT5443) (3 hours)
IT 6503 Foundations of HIT (3 hours)	IT 6833 Wireless Security (prereq IT6823) (3 hours)
IT 6513 EHR Systems (prereq IT6503) (3 hours)	IT 6843 Ethical Hacking (prereqs IT5423) (3 hours)
IT 6523 Clinical Processes & Workflows (co-req IT6503) (3 hours)	IT 6853 Computer Forensics (prereq IT6823) (3 hours)
IT 6533 Health InfoSec and Privacy (prereq IT6503) (3 hours)	IT 6863 Database Security & Auditing (prereqs IT5433) (3 hours)
IT 6583 Business Continuity Planning & Implem	** IT 6873 Information Security Seminar (prereq IT6823) (3 hours)
IT 6643 Issues in Information Technology (3 hours)	IT 6883 Infrastructure Defense (prereq IT 5423) (3 hours)
IT 6663 Data Center Management (prereq IT5423) (3 hours)	CSE 6983 CSE Graduate Internship (prereq 9 grad hours) (3 hours)
IT 6683 Management of Information Technology (3 hours)	IT 6990 Special Topics in Information Technology (prereqs vary) (3 hours)
IT 6713 Business Intelligence (prereqs IT6733 or CS6153) (3 hours)	IT 7113 Data Visualization (prereq IT 5433 and IT 5443) (3 hours)
** IT 6723 Managing Oper & Network Sys. (prereq IT5423) (3 hours)	IT 7999 Master's Thesis (prereq consent of graduate coordinator) (6 credits) consist of two consecutive semesters of 3 credits each)
** IT 6733 Database Administration (prereq IT5433) (3 hours)	

Program Total 36 - 48 hours

Certificates
Graduation Requirements 2016-2017

Graduate Certificate in Information Technology Fundamentals (12 credit hours)	
Required Courses	**Hrs**
IT 5413 Software Design and Development	3
IT 5423 Computer Architecture, Operating Systems, and Networks	3
IT 5433 Databases: Design and Applications	3
IT 5443 Web Technologies and Application Development (prereq IT5413)	3

Graduate Certificate in Information Technology Security (12 credit hours)	
Required Courses	**Hrs**
IT 6823 Information Security Concepts & Admin. (prereq IT5423) OR IS 8310 Governance, Risk Management and Compliance	3
IT 6873 Information Security Seminar (prereq IT6823)	3
Elective Courses choose two courses	
IT 6833 Wireless Security (prereq IT6823)	3
IT 6843 Ethical Hacking: Network Security & Pen Testing (prereq IT5423)	3
IT 6853 Computer Forensics (prereq IT6823)	3
IT 6863 Database Security & Auditing (prereq IT5433)	3
IT 6883 Infrastructure Defense (prereq IT5423)	3
IS 8940 Disaster Recovery and Business Continuity OR IT 6583 Business Continuity Planning & Implementation	3
IT 6903 Special Topics in Information Assurance (prereqs vary)	3

Graduate Certificate in Health Information Technology (15 credit hours)	
Required Courses	**Hrs**
IT 6423 IT System Acquisition & Integration (prereq IT5413)	3
IT 6503 Foundations of HIT	3
IT 6513 EHR Systems (prereq IT6503)	3
IT 6523 Clinical Processes and Workflows (co-req IT6503)	3
IT 6533 Health InfoSec and Privacy (prereq IT6503)	3

Graduate Certificate in Data Management and Analytics (12 credit hours)	
Required Courses	**Hrs**
IT 6733 Database Administration (prereq IT5433)	3
IT 6863 Database Auditing and Security (prereq IT 5433)	3
IT 6713 Business Intelligence (prereq IT6733)	3
IT 7113 Data Visualization (prereq IT5433 and IT 5443)	3