

## MSIT Program Requirement 2020 - 2021

### IT Foundation Courses<sub>1</sub> (If required, 12 Credit Hours)

IT 5413 Software Design and Development (3 hours)	IT 5423 Computer Networks and System Administration (3 hours)
IT 5433 Databases: Design and Applications (3 hours)	IT 5443 Web Technologies & App Development (prereq IT5413) (3 hours)

### Required Core Courses (15-18 Credit Hours)

IT 6203 IT Design Studio (prereqs IT5433 & IT5443) (3 hours)	IT 6413 IT Service Delivery (prereq IT5423) (3 hours)
IT 6423 IT Sys Acquisition & Integr(prereq IT5413) (3 hours)	IT 6823 InfoSecurity Concepts & Admin.(prereq IT5423) (3 hours)

IT 7933 IT Capstone (prereq IT 6203 and at least two of following courses: IT 6413, IT 6423, and IT 6823) (3 hours) **OR**  
 IT 7999 Thesis (permission of MSIT program director) (6 hours)

**Electives<sub>2</sub> (12-15 hours) 12 hours in electives if take IT 7999 Thesis as required course. 15 hours in elective if take IT 7933 Capstone as required course.**

Data Management & Analytics	IT Security	Health IT	Enterprise Management
IT 6713 Business Intelligence	IT 6833 Wireless Security	IT 6503 Foundations of HIT	IT 6103 IT Policy and Law
IT 6733 DB Administration	IT 6853 Computer Forensics	IT 6513 EHR	IT 6683 Management of IT
IT 6863 DB Security & Auditing	IT 6863 DB Security & Auditing	IT 6523 Clinical Processes	IT 6733 DB Administration
IT 7113 Data Visualization	IT 6843 Ethical Hacking	IT 6533 Health Info. Security	IT 7833 IT Strategy
IT 6773 Practical Data Analytics	IT 6883 Infrastructure Defense		

**Common Electives:** CSE 6983 Internship, IT 6903 Special Topics, IT 6753 Adv. Web Development, IT 6913 IT Research Seminar, IT 7933 IT Capstone, IT 7999 Thesis. Maximum of 1 elective might be from other computing related fields such as STAT, SWE, CS, IID, MGT, or IS.

**Notes:** 1). Students who don't have computing background will be required to take up to 12 hours of IT foundation courses. 2). Electives are grouped by focus areas/graduate certificates which are embedded in the MSIT program. A student may take elective freely from any focus area. However, it generally is a good idea to for students to choose a focus area in their program of study.

**Program Total 30 - 42 hours**

## IT Graduate Certificates Program Requirements 2019 - 2020

Graduate Certificate in Data Management & Analytics	Graduate Certificate in Information Technology Security	Graduate Certificate in Health Information Technology	Graduate Certificate in Enterprise IT Management	Graduate Certificate in IT Foundations
<p><b>Required Course (9 Credit Hours)</b></p>	<p><b>Required Courses (3 Credit Hours)</b></p>	<p><b>Required Courses (6 Credit Hours)</b></p>	<p><b>Required courses (9 Credit Hours)</b></p>	<p><b>Required Courses (12 Credit Hours)</b></p>
<ul style="list-style-type: none"> <li>• IT 6713 Business Intelligence</li> <li>• IT 6733 DB Administration</li> <li>• IT 6773 Practical Data Analytics</li> </ul>	<ul style="list-style-type: none"> <li>• IT 6823 Information Security Concepts &amp; Administration</li> </ul>	<ul style="list-style-type: none"> <li>• IT 6503 Foundations of Health IT</li> <li>• IT 6513 Electronic Health Record Systems</li> </ul>	<ul style="list-style-type: none"> <li>• IT 6683 Management of Information Technology</li> <li>• IT 6413 IT Service Delivery</li> <li>• IT 6423 IT System Acquisition &amp; Integration</li> </ul>	<ul style="list-style-type: none"> <li>• IT 5413 - Software Design and Development</li> <li>• IT 5423 - Computer Architecture, Operating Systems, and Networks</li> <li>• IT 5433 - Databases: Design and Applications</li> <li>• IT 5443 - Web Technologies and Application Development</li> </ul>
<p><b>Elective Courses (3 Credit Hours)</b> Choose one from the following:</p> <ul style="list-style-type: none"> <li>• IT 6863 DB Security &amp; Auditing</li> <li>• IT 7113 Data Visualization</li> </ul>	<p><b>Elective Courses (9 Credit Hours)</b> Choose three from the following:</p> <ul style="list-style-type: none"> <li>• IT 6833 Wireless Security</li> <li>• IT 6843 - Ethical Hacking: Network Security and Penetration Testing</li> <li>• IT 6853 - Computer Forensics</li> <li>• IT 6863 - Database Security &amp; Auditing</li> <li>• IT 6883 - Infrastructure Defense</li> <li>• IS 8330 - Disaster Recovery/Business Continuity Planning</li> </ul>	<p><b>Elective Courses (6 Credit Hours)</b> Choose one course from the following:</p> <ul style="list-style-type: none"> <li>• IT 6523 Clinical Processes &amp; Workflows: Analysis and Redesign</li> <li>• IT 6533 Health Information Security and Privacy</li> </ul> <p>Choose one course from the following:</p> <ul style="list-style-type: none"> <li>• IT 6203 Design Studio</li> <li>• IT 6423 IT System Acquisition &amp; Integration</li> </ul>	<p><b>Elective courses (3 Credit Hours)</b> Choose one course from the following:</p> <ul style="list-style-type: none"> <li>• IT 6103 IT Policy and Law</li> <li>• IT 7833 IT Strategy, Policy and Governance</li> </ul>	
<p><b>Program Total: 12 Credit Hours</b></p>	<p><b>Program Total: 12 Credit Hours</b></p>	<p><b>Program Total: 12 Credit Hours</b></p>	<p><b>Program Total: 12 Credit Hours</b></p>	<p><b>Program Total: 12 Credit Hours</b></p>

