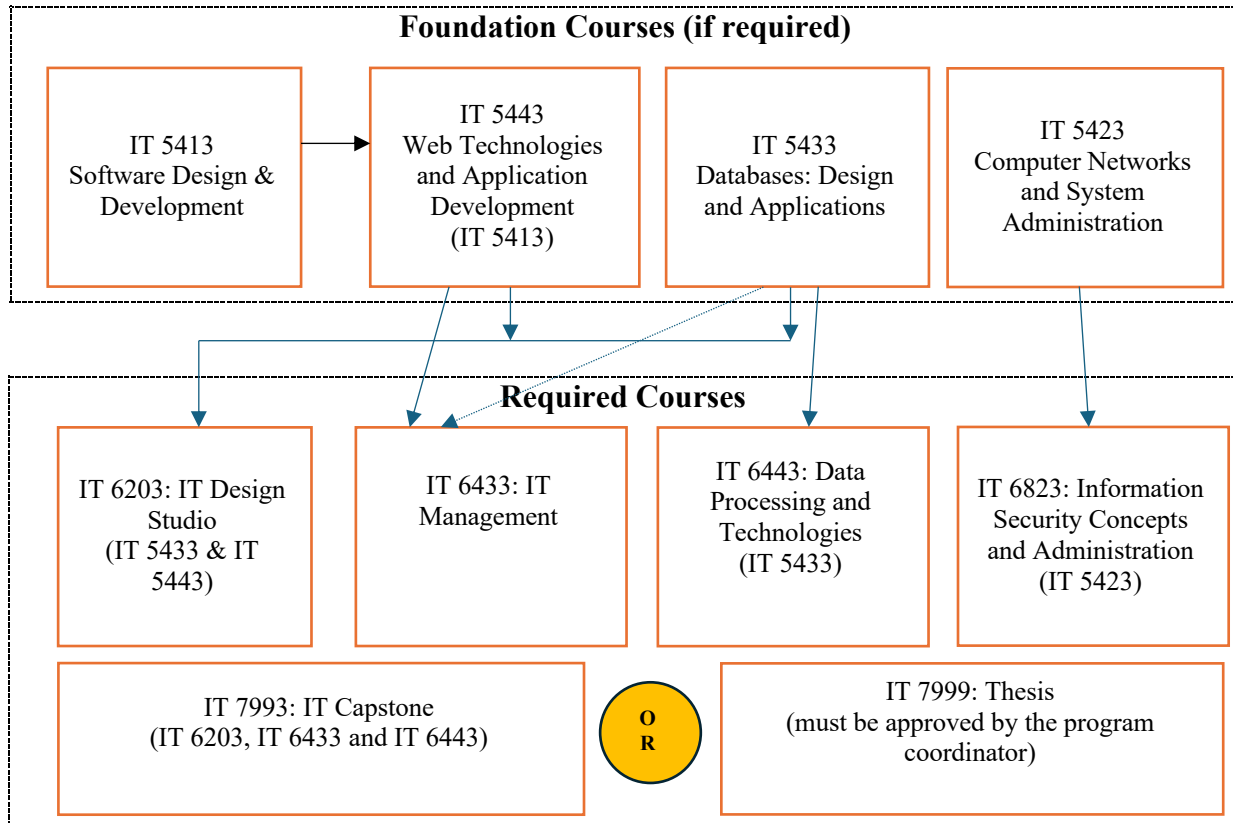# Master of Science in Information Technology Course Flowchart

Note: 1) the courses in () are the prerequisites; 2) courses without () means no prerequisites; 3) solid line between courses means required prerequisites.

Foundation Courses (if required)

IT 5413 Software Design & Development	IT 5443 Web Technologies and Application Development (IT 5413)	IT 5433 Databases: Design and Applications	IT 5423 Computer Networks and System Administration

Required Courses

IT 6203: IT Design Studio (IT 5433 & IT 5443)	IT 6433: IT Management	IT 6443: Data Processing and Technologies (IT 5433)	IT 6823: Information Security Concepts and Administration (IT 5423)

IT 7993: IT Capstone (IT 6203, IT 6433 and IT 6443)	**OR**	IT 7999: Thesis (must be approved by the program coordinator)

Enterprise IT	IT Security	AI and Cloud Technology	Data Analytics and Intelligence
IT 7503: Foundations of Health Information Technology	**IT 7303: Data Privacy Technologies** (IT 6823)	**IT 7133: Enterprise AI Applications**	**IT 7103: Practical Data Analytics**
IT 7703: IT Policy and Law (IT 6433)	**IT 7313: Physical IT Systems Security** (IT 6823)	**IT 7733: Fundamentals of Enterprise Cloud**	**IT 7113: Data Visualization** (IT 5433)
IT 7733: Fundamentals of Enterprise Cloud	**IT 7323: Computer Forensics** (IT 6823)	**IT 6933: Machine Learning Technology in FinTech**	**IT 7123: Business Intelligence Systems** (IT 5433)
IT 7743: Database Administration (IT 5433)	**IT 7333: Enterprise Cloud and Wireless Security** (IT 6823)	**IT 7123: Business Intelligence Systems** (IT 5433)	**IT 7133: Enterprise AI Applications**
IT7753: IT Service Delivery (IT 5423)	**IT 7343: Ethical Hacking: Network Security and Penetration Testing** (IT 6823)	**IT 7143: Cloud Analytics Technology**	**IT 7143: Cloud Analytics Technology**
IT 7763: IT System Acquisition & Integration (IT 5413 or IT 5433)	**IT 7533: Health Information Security and Privacy** (IT 7503)	**IT 7333: Enterprise Cloud and Wireless Security** (IT 6823)	

Other available elective courses:

IT 6923: Blockchain Technology in Payments IT 6933: Machine Learning Technology in FinTech IT 7900: Special Topics in Information Technology	IT 7913: Research Seminar in IT IT 7923: Advanced Web Technologies IT 7998: Directed Study in Information Technology CSE 7983: Graduate Internship

Program Option:

IT 7993: IT Capstone (3 credit hours) 15 credit hours from elective course list	IT 7999: Thesis (6 credit hours over two semesters) 12 credit hours from elective course list