

DESIGN YOUR DEGREE ELECTIVES BY TOPIC AREA

THE VT-MIT DEGREE REQUIRES A MINIMUM OF 11 COURSES (33 CREDIT HOURS): FOUR (4) CORES COURSES AND SEVEN (7) ELECTIVES. CORES AND ELECTIVES MAY BE CHOSEN FROM THE LIST BELOW. THE TOPIC AREAS ARE MEANT TO HELP GUIDE YOUR COURSE SELECTIONS, SO YOU MAY MIX AND MATCH ACROSS THE GROUPINGS AS IT FITS YOURS INTERESTS.

FA = FALL SP = SPRING SU = SUMMER

				TERMS
		REQUIRED PREREQUISITE	SUGGESTED PREREQUISITE	AVAILABLE
	INESS INTELLIGENCE			54.00
ACIS 5504	Information Systems Design & Database Concepts (CORE)			FA, SP
ACIS 5524	Advanced Database Management Systems	ACIS 5504		FA, SP
BIT 5524	Introduction to Business Intelligence & Analytics		BIT 5594 or MGT 5804	FA
BIT 5534 BIG DATA	Applied Business Intelligence & Analytics	BIT 5524		SP
CS 5044	Object-Oriented Programming with Java (CORE)	Java, C, C++, or C#		FA, SP, SU
CS 5644	Machine Learning with Big Data	CS 5044		FA, 5P, 50
CS 5664	Social Media Analytics	CS 5044		SP
BUSINESS INFORM		03 3044		JF
ACIS 5504	Information Systems Design & Database Concepts (CORE)			FA, SP
ACIS 5524	Advanced Database Management Systems	ACIS 5504		FA, SP
BIT 5474	Computer-Based Decision Support Systems	A013 3304	BIT 5594	FA, SF FA
CYBERSECURITY 1			DIT 5554	TA
ECE 5480	Cybersecurity and the Internet of Things	ECE 5484 or CS 5044		FA, SP, SU
ECE 5484	Fundamentals of Computer Systems (CORE)	Java, C, C++, or C#		FA, SP, SU
ECE 5585	IT Security and Trust L	ECE 5484		FA, 3F, 30
ECE 5586	IT Security and Trust II	ECE 5585		SP
CYBERSECURITY N				JF
MGT 5804	Strategic Leadership in Technology-Based Organizations (CORE)			FA, SP
BIT 5134	Cybersecurity Program Design & Operations		BIT 5594 or MGT 5804	FA, (alt) SU
ACIS 5624	Cybersecurity Governance and Risk Management		BIT 5594 or MGT 5804	SP
CYBERSECURITY F			DH 3334 01 Mat 3004	JI
BIT 5594	Web-Based Applications & Electronic Commerce (CORE)			FA, SU
BIT 5114	Crime and Conflict in Cyberspace		BIT 5594 or MGT 5804	SP, (alt) SU
BIT 5124	Cyber Law and Policy for Information Technology		BIT 5594 or MGT 5804	FA
	TION TECHNOLOGY			
ACIS 5504	Information Systems Design & Database Concepts (CORE)			FA, SP
BIT 5564	Healthcare Information Technology		ACIS 5504	SU
BIT 5574	Healthcare Data Management		ACIS 5504	SU
	REPRENEURSHIP/ENGINEERING IN AI/ML			
BIT 5984	Introduction to Generative AI in Business			SP
BIT 5984	Leading Technology Transformation: Pratical Implementation			SP
ECE 5984	Data Engineering Project			FA
ECE 5494	Innovative Pathways in Al & Machine Learning	ECE 5484 or MGT 5804		SP
ECE 5984	Quantum Information Technologies	ECE 5484		SP
MGT 5804	Strategic Leadership in Technology-Based Organizations (CORE)			FA, SP
MGT 5824	Technology-Based Entrepreneurship	MGT 5804		SU
NETWORKING				
ECE 5484	Fundamentals of Computer Systems (CORE)	Java, C, C++, or C#		FA, SP, SU
ECE 5485	Networks and Protocols	ECE 5484		FA
ECE 5984	Next Generation Mobile Networks	ECE 5484 or CS 5044		SP
SOFTWARE DEVEL				
CS 5044	Object-Oriented Programming with Java (CORE)	Java, C, C++, or C#		FA, SP, SU
CS 5244	Web Application Development	CS 5044		FA, SU
CS 5254	Mobile Application Development	CS 5044		SP
				FA, SP
CS 5704	Software Engineering (CORE)	CS 5044		FA, 5P