



USE THE COURSE SELECTIONS BELOW TO SPECIALIZE YOUR PLAN OF STUDY AND EARN UP TO TWO GRADUATE CERTIFICATES.

FA = FALL SP= SPRING SU = SUMMER

*PREREQUISITE NOT REQUIRED FOR CERTIFICATE-ONLY STUDENTS

COURSE NUMBER	COURSE TITLE	REQUIRED PREREQUISITE	SUGGESTED PREREQUISITE	TERMS AVAILABLE
BIG DATA				
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
CS 5664	Social Media Analytics	CS 5044		SP
BUSINESS DATA ANALYTICS				
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	Applied Business Intelligence & Analytics	BIT 5524		SP
CYBERSECURITY MANAGEMENT				
ACIS 5624	Cybersecurity Governance and Risk Management		BIT 5594 or MGT 5804	SP
BIT 5134	Cybersecurity Program Design & Operations		BIT 5594 or MGT 5804	FA, SU
MGT 5804	Strategic Leadership in Technology-Based Organizations (CORE)			FA, SP
CYBERSECURITY POLICY				
BIT 5114	Crime and Conflict in Cyberspace		BIT 5594 or MGT 5804	SP, SU
BIT 5124	Cyber Law and Policy for Information Technology		BIT 5594 or MGT 5804	FA
BIT 5594	Web-Based Applications & Electronic Commerce (CORE)			FA, SU
CYBERSECURITY TECHNOLOGIES				
ECE 5484	Fundamentals of Computer Systems (CORE)	Java, C, C++ or C#		FA, SP, SU
ECE 5585	IT Security and Trust I	ECE 5484		FA
ECE 5586	IT Security and Trust II	ECE 5585		SP
ECE 5480	Cybersecurity and the Internet of Things	ECE 5484 or CS 5044		FA, SP
HEALTH INFORMATION 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
INFORMATION SYSTEMS DESIGN				
ACIS 5504	Information Systems Design & Database Concepts (CORE)			FA, SP
ACIS 5524	Advanced Database Management Systems	ACIS 5504		FA, SP
ACIS 5534	Information Systems Analysis and Design	ACIS 5504		FA
INFORMATION TECHNOLOGY MANAGEMENT				
BIT 5474	Computer-Based Decision Support Systems		BIT 5594	FA
BIT 5594	Web-Based Applications & Electronic Commerce (CORE)			FA, SU
MGT 5804	Strategic Leadership in Technology-Based Organizations (CORE)			FA, SP
INTERNET & NETWORK TECHNOLOGIES				
ECE 5480	Cybersecurity and the Internet of Things	ECE 5484 or CS 5044		FA, SP
ECE 5484	Fundamentals of Computer Systems (CORE)	Java, C, C++ or C#		FA, SP, SU
ECE 5485	Networks and Protocols I	ECE 5484		FA
SOFTWARE DEVELOPMENT				
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
CS 5704	Software Engineering (CORE)	CS 5044		FA, SP

CHOICE