BS Computer Science Rotation

		Spring 2021		Summer 2021		Fall 2021		Spring 2022		Summer 2022		Fall 2022		Spring 2023		Summer 2023		Fall 2023	
Course	Title	F2F	Online	F2F	Online	F2F	Online	F2F	Online	F2F	Online	F2F	Online	F2F	Online	F2F	Online	F2F	Online
MATH 3310	Discrete Mathematics		X						X						X				
MATH 3360	Numerical Analysis I						X						X						X
or MATH 3332	Linear Algebra		X						X						X				
Programming Requirement (pick one)	CIS 3330 - C++ Programming	X							X					X					
	CIS 3332 - Java Programming					X			X				X					X	
	CIS 3340 - Advanced C++ Programming			X						X							X		
	CIS 3342 - Advanced Java Programming	X							X	X				X					
	CIS 3343 - C# Programming for Windows and the Web					X							X					X	
CIS 3360	Ethics in Computing		X		X	X	X	X	X		X	X	X		X		X	X	X
COSC 3343	Computer Architecture						X					X							X
COSC 3351	Data Structures			X					X							X			
COSC 3380	Operating Systems	X							X					X					
COSC 4301	Database Theory and Practices	X		X			X	X			X	X			X	X			X
COSC 4340	Analysis of Algorithms	X				X							X		X			X	
COSC 4341	Information Technology Security and Risk Management	X			X		X	X			X		X	X			X		X
COSC 4378	Computer Networks	X							X					X					
COSC 4379	Software Engineering for E-Business					X							X					X	

Advanced Faculty Approved Electives Choose eight courses

		Spring 2021		Summer 2021		Fall 2021		Spring 2022		Summer 2022		Fall 2022		Spring 2023		Summer 2023		Fall 2023	
Course	Title	F2F	Online	F2F	Online	F2F	Online	F2F	Online	F2F	Online	F2F	Online	F2F	Online	F2F	Online	F2F	Online
CIS 3302	Introduction to Business Analytics				X	X							X				X	X	
CIS 3306	Data Visualization		X						X		X				X				
CIS 3315	Web Site Development and Design	X			X		X	X		X			X		X		X		X
Programming Choice (cannot take the same programming class twice)	CIS 3330 - C++ Programming	X							X					X					
	CIS 3331 - Visual Basic Programming				X					X							X		
	CIS 3332 - Java Programming					X			X				X					X	
	CIS 3340 - Advanced C++ Programming			X						X							X		
	CIS 3342 - Advanced Java Programming	X							X	X				X					
	CIS 3343 - C# Programming for Windows and the Web					X							X					X	
CIS 3347	Data Communications and Infrastructure		X	X			X	X			X	X			X		X	X	
CIS 3348	Networking Architecture and Design																		
CIS 3361	Introduction to Computer Forensics	X					X	X					X	X					X
CIS 4302	Advanced Business Analytics	X						X						X					
CIS 4303	Data Mining					X						X						X	
CIS 4335	UNIX Systems Administration	X												X					
CIS 4342	Computer Security Principles and Practices		X	X					X		X				X	X			
CIS 4345	Network and Systems Security					X						X						X	
CIS 4346	Applied Security											X							
CIS 4348	Security Trends and Malware Analysis	X						X						X					
CIS 4352	Structured Query Language						X					X							X
CIS 4376	Network Administration					X						X						X	
CIS/COSC 4310	Artificial Intelligence											X							
CIS/COSC 4311	Android Application Development	X												X					
COSC 4389	Special Topics in Computer Science																		