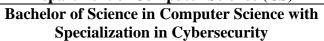


College of Arts and Applied Sciences Department of Computer Science (CS)





COMP 101		Specialization in Cybersecurity				
COMP 111	Semester	Code	Course Title	Credits		
ARAB 101 Academic Writing in Arabic Brokl 101 Basic Academic English 3 Amath 199 Calculus I 3 Computer Semester 2 COMP 151 Discrete Structures 3 COMP 111 COMP 161 Numerical Systems 3 COMP 111 COMP 161 Numerical Systems 3 COMP 111 COMP 161 Numerical Systems 3 COMP 111 COMP 171 Digital Design & Computer 3 COMP 161 COMP 171 Digital Design & Computer 3 COMP 161 COMP 171 COMP 210 Data Structures and Algorithms 3 COMP 151 COMP 211 Object Oriented Programming 3 COMP 151 COMP 211 Object Oriented Programming 3 COMP 151 COMP 211 Object Oriented Programming 3 COMP 151 COMP 210 English for Computer Science II 3 COMP 211 Computer Networks 3 COMP 171 ENTR 200 Entrepreneurship 3 COMP 251 Operating Systems 3 COMP 251 Operating Systems 3 COMP 251 COMP 251 Database Management Systems 3 COMP 251 COMP 251 Database Management Systems 3 COMP 251 COMP 251 Introduction to Data Sciences 3 COMP 251 COMP 251 Introduction to Cybersecurity 3 COMP 251 COMP 251 Introduction to Cybersecurity 3 COMP 251 COMP 251 COMP 251 Semester 5 Semester 6 COMP 301 Software Engineering 3 COMP 261 COMP 301 Software Engineering 3 COMP 301	Semester 1	COMP 101	Introduction to Technical Computing	3		
ARAB 101		COMP 111	Programming Fundamentals	3	=COMP 101	
ENGL 101 Basic Academic English 3		ARAB 101		3		
MATH 199 Calculus I 3 Credits/Semester 15				3		
COMP 151 Discrete Structures 3 >COMP 111		MATH 199	Š	3		
COMP 161 Numerical Systems 3 >COMP 111			Credits/Semester	15		
ENGL 102C English for Computer Science I 3 3 3	Semester 2	COMP 151	Discrete Structures	3	>COMP 111	
Semester 2 102C		COMP 161	Numerical Systems	3	>COMP 111	
COMP 171			English for Computer Science I	3		
Compage		COMP 171	Architecture	3	>=COMP 161	
COMP 201 Data Structures and Algorithms 3 >COMP 151		SOCS 102	Omani Society	3		
COMP 211 Object Oriented Programming 3 >COMP 111				15		
Semester 3		COMP 201	Data Structures and Algorithms	3	>COMP 151	
Semester 3 203C English for Computer Science II 3		COMP 211	Object Oriented Programming	3	>COMP 111	
ENTR 200 Entrepreneurship 3	Semester 3		English for Computer Science II	3		
Comp 251 Operating Systems 3 >COMP 251		COMP 221	Computer Networks	3	>COMP 171	
Comp 251 Operating Systems 3 >COMP 251		ENTR 200	Entrepreneurship	3		
COMP 261 Database Management Systems 3 >COMP 211				15		
Semester 4 COMP 271 Introduction to Data Sciences 3 >=COMP 261		COMP 251	Operating Systems	3	>COMP 221	
COMP 281 Introduction to Cybersecurity 3 >COMP 221 Humanities and Social Science Elective 3 Credits/Semester 15 COMP 301 Software Engineering 3 >COMP 201 COMP 311 Random Processes 3 >COMP 161 Semester 5 General Elective 3 1st Cybersecurity Elective - 300 Level 3 2nd Cybersecurity Elective - 300 Level 3 Credits/Semester 15 COMP 351 Artificial Intelligence 3 >COMP 271 COMP 361 Linear Systems 3 >COMP 311 Semester 6 3rd Cybersecurity Elective - 300 Level 3 4th Cybersecurity Elective - 300 Level 3 5th Cybersecurity Elective - 300 L		COMP 261	Database Management Systems		>COMP 211	
Humanities and Social Science Elective 3	Semester 4	COMP 271	Introduction to Data Sciences		>=COMP 261	
Comp 301 Software Engineering 3 Scomp 201		COMP 281	Introduction to Cybersecurity		>COMP 221	
COMP 301 Software Engineering 3 >COMP 201			Humanities and Social Science Elective	3		
COMP 311 Random Processes 3 >COMP 161			Credits/Semester	15		
Semester 5 General Elective 3 1st Cybersecurity Elective - 300 Level 3 2nd Cybersecurity Elective - 300 Level 3 Comp 351 Artificial Intelligence 3 >COMP 271 COMP 361 Linear Systems 3 >COMP 311 Semester 6 3rd Cybersecurity Elective - 300 Level 3 4th Cybersecurity Elective - 300 Level 3 5th Cybersecurity Elective - 300 Level 3 Credits/Semester 15 Comp 401 Web Technologies 3 >COMP 261		COMP 301	Software Engineering		>COMP 201	
1st Cybersecurity Elective - 300 Level 3		COMP 311	Random Processes	3	>COMP 161	
2nd Cybersecurity Elective - 300 Level 3	Semester 5		General Elective			
Credits/Semester 15 COMP 351 Artificial Intelligence 3 >COMP 271 COMP 361 Linear Systems 3 >COMP 311 3rd Cybersecurity Elective - 300 Level 3 4th Cybersecurity Elective - 300 Level 3 5th Cybersecurity Elective - 300 Level 3 Credits/Semester 15 Semester 7 COMP 401 Web Technologies 3 >COMP 261						
COMP 351 Artificial Intelligence 3 >COMP 271			2 nd Cybersecurity Elective - 300 Level	3		
COMP 361 Linear Systems 3 >COMP 311			Credits/Semester	15		
Semester 6 3rd Cybersecurity Elective - 300 Level 3 4th Cybersecurity Elective - 300 Level 3 5th Cybersecurity Elective - 300 Level 3 Credits/Semester 15 Semester 7 COMP 401 Web Technologies 3 >COMP 261					>COMP 271	
4 th Cybersecurity Elective - 300 Level 3 5 th Cybersecurity Elective - 300 Level 3		COMP 361			>COMP 311	
5th Cybersecurity Elective - 300 Level 3 Credits/Semester 15 Semester 7 COMP 401 Web Technologies 3 >COMP 261	Semester 6		·			
Credits/Semester 15 Semester 7 COMP 401 Web Technologies 3 >COMP 261			· · ·			
Semester 7 COMP 401 Web Technologies 3 >COMP 261			· · · · · · · · · · · · · · · · · · ·	3		
Semecter /			Credits/Semester	15		
COMP 411 IT Ethics & Society 3 >COMP 281	Semester 7	COMP 401	Web Technologies		>COMP 261	
		COMP 411	IT Ethics & Society	3	>COMP 281	

		6 th Cybersecurity Elective - 400 Level	3	
		7 th Cybersecurity Elective - 400 Level	3	
		8 th Cybersecurity Elective - 400 Level	3	
		Credits/Semester	15	
	COMP 451	Analytics for Decision Making	3	>COMP 361
Semester 8	COMP 499	Final Year Project	3	>=COMP 411
		Physics and Natural Science Elective	3	
		9 th Cybersecurity Elective - 400 Level	3	
		10 th Cybersecurity Elective - 400 Level	3	
		Credits/Semester	15	
		Total Credits	120	

CYBERSECURITY ELECTIVES

COURSE CODE	COURSE CODE COURSE TITLE		Pre/Co-
COCHSE CODE	COCINE III		Requisite
COMP 321	Network Security	3	>COMP 201
COMP 322	Software Security	3	>COMP 201
COMP 323	Information and System Security	3	>COMP 221
COMP 324	Ethical Hacking	3	>COMP 281
COMP 325	Dotobogo Sogurity	3	>COMP 261 +
COMP 323	Database Security		>COMP 281
COMP 326	Wireless and Mobile Security	3	>COMP 281
COMP 327	Disaster Recovery and Management	3	>COMP 281
COMP 422	Special Topics in Cyber Security	3	>COMP 281
COMP 423	Cryptography	3	>COMP 281
COMP 424	Cyber Security Risk Management	3	>COMP 281
COMP 425	Digital Forensics	3	>COMP 281
COMP 426	Cyber Crime Investigation and Forensics	3	>COMP 281
COMD 421	Parallel Computing	3	> COMP 221+
COMP 431			> COMP 251
COMP 432	Client Server Computing	3	>COMP 221
COMP 479	Industrial Internship in Cybersecurity	3	>COMP 281
