

Program Name: Computer Science B.S. Catalog: 2019-2020			Program Name: Computer Science, B.S.		
Johnson & Wales University			Palm Beach Atlantic University		
Major Courses					
<i>Course Number</i>	<i>Course Title</i>	<i>Credit Hours</i>	<i>Course Number</i>	<i>Course Title</i>	<i>Credit Hours</i>
CSIS1000	Problem Solving & Program Concepts	3.0	CSC 1103	Introduction to Computer Science	3
CSIS1101	Computer Science I	3.0	CSC 2203	Programming I	3
CSIS1112	Computer Science II	3.0	CSC 2303	Programming II	3
CSIS2018	Advanced Data Structures	3.0			
CSIS2023	Survey of Programming Languages	3.0	CSC 4103	Survey of Programming Languages	3
CSIS2045	Introduction to Operating Systems	3.0	CSC 3403	Operating Systems	3
ENGN2014	Computer Architecture I	3.0	CSC 3103	Computer Organization	3
ITEC2081	Network Protocols I	3.0	CSC 3413	Computer Networking	3
ITEC3050	Information Security	3.0	CSC 4413	Computer Network Security	3
MATH1030	Pre-calculus	3.0			
PRMG2010	Introduction to Project Management	3.0	BUM 4103	Project Management	3
	Total Credits	33.0			
Major Courses/Specialization (choose additional major courses or a specialization listed below)		18.0			
CSIS3126	Design Project I		CSC 4714	Senior Project	4
CYB3038	HCI/Usable Security				
ITEC3070	Systems Modeling and Simulation		CSC 4503	Computer Simulation	3
9 credits at 2000+ level in the following subjects BIO, CAD, CHM, CSIS, CYB, ECON, ENGN, GDES, ITEC, LEAD, MATH, MGMT, PHY, PSYC, SCI, SOC					
2000+ level					
2000+ level					
2000+ level					
Specialization in Software Engineering (Students must use 3 credits of free electives to complete this specialization)					
CSIS3106	Software Verification, Validation, Testing & Security	3.0			
CSIS3126	Design Project I	3.0	CSC 4714	Senior Project	4
CSIS4010	Software Engineering	3.0	CSC 3213	Software Engineering	3
ENGN2085	Introduction to Embedded Systems	3.0			
ITEC2085	Distributed Systems with TCP/IP	3.0			
ITEC3040	System Analysis	3.0	CSC 2133	Introduction to Information Systems	3
MATH1040	Calculus I	3.0	MAT 2804	Calculus I	4
	Total Credits	21.0			
Specialization in Network Engineering					
ITEC2082	Network Protocols II	3.0	CSC 3413	Computer Networking	3
ITEC2085	Distributed Systems with TCP/IP	3.0			
ITEC3031	Router Internals and Integration	3.0			
ITEC3075	Network Security	3.0	CSC 4413	Computer Network Security	3
ITEC3083	Wireless Networking	3.0	CSC 3413	Computer Networking	3
MATH1040	Calculus I	3.0	MAT 2804	Calculus I	4
	Total Credits	18.0			
Applied/Experiential Learning					
	9.0				
TECX4099	College of Engineering & Design Internship		CSC 4804	Senior Internship	4
TECX4045	Technical Solutions Team I				
TECX4046	Technical Solutions Team II				

TECX4099	College of Engineering & Design Intern.		CSC 4804	Senior Internship	4
Related Professional Studies					
CAR0010	Career Management	1.0	FYE 1001	First Year Experience	1
ENG2010	Technical Writing	3.0			
LAW2001	The Legal Environment of Business I	3.0	BUS 3193	Business Law I	3
MATH2020	Discrete Mathematics	3.0	MAT 2253	Discrete Mathematics	3
MGMT2020	Organizational Behavior	3.0	BUM 4313	Organizational Behavior	3
	Total Credits	13.0			
Free Electives					
	Free Elective				
	Free Elective				
	Free Elective				
	Total Credits	9.0			
Arts & Sciences Core Experience					
Communications Foundation Courses					
ENG1020	English Composition	3.0	ENG 1113	Composition I	3
ENG1021	Advanced Composition & Communications	3.0	ENG 1123	Composition II	3
ENG1030	Communication Skills	3.0	COM 1113	Public Speaking	3
Integrative Learning					
ILS@2999	Integrative Learning - 2000 Level	3.0			
ILS@4999	Integrative Learning - 4000 Level	3.0			
Arts & Humanities					
PHIL3240	Ethics: A Global Perspective	3.0			
Select One	ART, HUM, LIT, or HIST	3.0		Transfer credit considered on a case-by-case basis	
Mathematics					
MATH1020	Fundamentals of Algebra or higher	3.0	MAT 1853	College Algebra	3
MATH2001	Statistics	3.0	MAT 2003	Elementary Statistics	3
Science					
PHY1011	General Physics I	3.0	PHY 2013	General Physics I	3
PHY1015	General Physics I Laboratory	1.0	PHY 2111	General Physics I Laboratory	1
Social Science					
LEAD1010	Foundation of Leadership Studies	3.0	BUM 4053	Leadership and Ethics	3
Select One	ANTH, ECON, SOC, PSCI or PSYC	3.0		Transfer credit considered on a case-by-case basis	
Arts & Science Electives					
Select two courses from the offerings within the College of Arts & Sciences, at least one at the 3000 level or higher.		3.0		Transfer credit considered on a case-by-case basis	
		3.0		Transfer credit considered on a case-by-case basis	
	Total Credits	43			
Total Program Credits		122.0			