

School of Business and Information Sciences
Control Sheet: BS, Computer Science

<i>Course No.</i>	<i>Course Title</i>	<i>Credits</i>	<i>Transfer Institution</i>	<i>Transfer Course</i>	<i>Transfer Credits</i>	<i>Semester</i>	<i>Grade</i>
	General Education Commons (Theme Areas- 52 Credits)						
Theme I.	Faith and Reason						
Waived with Associate Degree	(100/200 level from list)	3	Waived	Waived	Waived	Waived	Waived
	(300/400 level from list)	3		Felician University Course			
Theme II.	Ethics, Values, and Truth						
	(1 course from PHIL204 BUS300 PHIL250 PHIL309 NURS380)	3		Felician University Course			
Theme III.	Communication & Expression						
Waived with Associate Degree	ENG 101: Writing the College Essay	3	HCCC	ENG 101- College Composition I	3		
Waived with Associate Degree	(From list)	3	HCCC	ENG 112- Speech	3	Waived	Waived
Theme IV.	Critical & Analytical Thinking						
Waived with Associate Degree	(1 course from ENG-150 LS-150 PHIL-100)	3	Waived	Waived	Waived	Waived	Waived
Theme V.	Information Literacy						
Waived with Associate Degree	LS-100: The Architecture of Information	1	Waived	Waived	Waived	Waived	Waived
Waived with Associate Degree	ENG102: College Writing and Research II	3	HCCC	ENG 102- College Composition II	3		
Theme VI.	Technology Acumen						
	CS120: Introduction to Computer Science	3					
Theme VII.	Quantitative & Scientific Reasoning						
Waived with Associate Degree	Quantitative & Scientific Reasoning (College Level Math) MATH160: College Algebra	4	HCCC	MAT 111- Calculus I	4		
Waived with	Quantitative & Scientific Reasoning (Lab Science) from list	4	HCCC	PHY 111- Engineering Physics I	4		

Associate Degree	Recommended :PHYS103: General Physics I w/Lab,							
Theme VIII.	Global Consciousness							
Waived with Associate Degree	(From list)	3	HCCC	HUM 101- Cultures and Values	3			
Waived with Associate Degree	(From List)	3	Waived	Waived	Waived	Waived	Waived	Waived
	Arts and Sciences Electives							
Waived with Associate Degree	Liberal Arts Concentration MATH122 Statistics I	3	HCCC	MAT 112- Calculus II	4			
Waived with Associate Degree	Liberal Arts Concentration MATH161 Pre-Calculus	4	HCC	MATH 211 – Calculus III	4			
Waived with Associate Degree	Liberal Arts Concentration Elective from list	3	HCCC	Math or Science Elective	4			
First Year	3-D Felician Experience- Dream	1	HCCC	CSS 100- College Student Success	1			
Second Year	3-D Felician Experience-Dare	1		Felician University Course				
Third Year	3-D Felician Experience-Do	1		Felician University Course				
	Computer Science Core Requirements (39 Credits)							
CS104	Python I	3						
CS 110	Introduction to Programming I	4						
CS120	Introduction to Computer Science – (Included in GECC)	3 (GECC)						
CS270	Introduction to Programming II	4						
CS280	Computer Architecture and Organization	3						
CS290	Theoretical Foundations and Principles of Computer Science	3						
CS320	Network and Telecommunications	4						
CS350	Intro to Operating Systems	3						
CS380	Data Structures and Algorithms	3						
CS360	Database Management Systems	3						
CS420	Software Engineering	3						
CS460	Senior Project Development	3						
	Required Courses for Software Developer Track (15 Credits)							
CS201	Programming Logic and Design	3						
CS204	Python II	3						

CS205	Web Development and Scripting Languages	3					
CS391	Game Development	3					
CS395	Design Principles of Programming Languages	3					
	Required Courses for Data Analyst Track (15 Credits)						
CS398	R and Advanced Statistics	3					
CS399	Intro to Machine Learning	3					
CS430	Intro to Big Data and Data Mining	3					
CS470	Artificial Intelligence	3					
CS499	Advanced Databases and Knowledge Discovery	3					
	Required Courses for Generalist Track (any 15 Credits from Computer Science: Software Developer Track and Data Analyst Track)						
	Free Electives (14 Credits to meet 120 total credits)						
	List of CS Free Electives						
	Social Science Elective	3	HCCC	Any Social Science Elective	3		
	Computer Logic and Discrete Math	3	HCCC	CSC 113	3		
	Programming in C ++ for Comp. Science	3	HCCC	CSC 115			
	Data Structures and Advanced Programming	3	HCCC	CSC 214	3		
	Java Programming OR Python Programming	3	HCCC	CSC 117 OR CSC 118	3		
	Take 3 Courses from						
	Database Design and Concepts	3	HCCC	CSC 226	3		
	Intro to Operating Systems	3	HCCC	CSC 227	3		
	Data Communication Concepts	3	HCCC	CSC 230	3		
	Info Systems Analysis and Design	3	HCCC	CSC 231	3		
	Cybersecurity	3	HCCC	CSC 232	3		
	Network Security	3	HCCC	CSC 235	3		
	Intro to Networks and Networking	3	HCCC	CSC 240	3		
	Computer Forensics and Investigation	3	HCCC	CSC 242	3		
	Ethical Hacking	3	HCCC	CSC 245	3		

Transfer Credits:

NOTES: General Policy- Up to 90 credits may be transferred to Felician University. At least 30 credits must be taken from Felician University. Included in the 30 credits must be at least half of the credits required in the major.

General Education Courses Waived for students who earn an A.A. or A.S. degree.

Associate in Science AWARDED _____

Admissions Counselor:

Academic Advisor: