GRAMBLING STATE UNIVERSITY
College of Arts and Sciences
Department of Computer Science
Computer Science Curriculum (Catalog: 2017-2019)
B. S. in Computer Science

Name: _____ G#: _____

Semester	Grade	Substitution	Course Number	Course Name	Hrs.	Prerequisites	Notes
FRESHMAN							
			BIOL 113	Principles of Biology -I	3		
			BIOL 115	Principles of Biology – I Lab	1		
			FYE 101	First Year Experience I	1		
			FYE 102	First Year Experience II	1		
			ENG 101	Freshman Composition	3		
			ENG 102	Freshman Composition	3		
			HIST 101	History of Western Civilization I	3		
			HIST 104	Modern World History	3		
			MATH 153[1]	Calculus I	3	MATH148 or ACT (Math) 22 or above	
			MATH 154	Calculus II	3	MATH 153	
			CS 110	Computer Science I	3		
			CS 120	Computer Science II	3	CS 110	
				TOTAL	**30**		
SOPHOMORE							
			GET 300	Rising Junior Exam	0		
			ENG 200	World Literature I	3		
			ENG 207	Intro. to Technical Writing	3		
			THEA 212	Fund. of Public Speaking	3		
			MATH 201	Calculus III	3	MATH 154	
			MATH 273	Probability and Statistics I	3		
			PHYS 153	General Physics I	3		
			PHYS 153L	General Physics Laboratory	1		
			CS 201	Social, legal, and Ethical issues in Information Age.	3	CS 120 or with the permission of Instructor	
			CS 210	Discrete Structures	3	CS 110	
			CS 236	Data Structures and Algorithm Analysis	3	CS 120, CS 210	
			CS 325	Comp. Org. & Architecture	3	CS 236	
				TOTAL	**31**		
JUNIOR							
			SOC 101	Introduction to Social Science	3		
			PHYS 154	General Physics II	3		
			PHYS 154L	General Physics Laboratory	1		
			MATH 274	Probability and Statistics II	3	MATH 273	
			MATH 309	Intro. to Linear Algebra	3	MATH 154	
			MATH 421	Numerical Methods I	3	MATH 201	
			CS 310	Software Engineering	3	CS 236	
			CS 311	Information Assurance and Security	3	CS 236	
			CS 320	Database Management Systems	3	CS 236	
			CS 336	Programming Language Concepts	3	CS 236	
			CS 345	Operating Systems	3	CS 236	
				TOTAL	**31**		

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SENIOR							
			ART 105	Intro. To Fine & Performing Arts	3		
			ECON 201	Principles of Economics	3		
			CS 400	Computer Science Seminar	1	CS 236	
			CS 406	Software Development	3	CS 310	
			CS 419	Computer Networks	3	CS 236	
			CS 450	Parallel processing	3	CS 325	
			CS 4xx	Major Elective	3	See list	
			CS 4xx	Major Elective	3	See list	
		FR 101	SPAN 101	Foreign Language	3		
		FR 102	SPAN 102	Foreign Language	3		
				TOTAL	**28**		
				TOTAL	**120**		

1. Students deficient in Math are required to take MATH147/148 before taking MATH153.

COMPUTER SCIENCE ELECTIVES

Course Number	Course Name	Hrs.	Prerequisites
CS 411	Applied Cryptography	3	CS 311
CS 415	Computer Games Programming	3	CS 236
CS 424	Advanced Programming Technique	3	CS 236
CS 426	Artificial Intelligence	3	CS 236
CS 428	Computer Graphics	3	CS 236
CS 435	Big Data and Cloud Security	3	CS 311
CS 451	Robotics	3	CS 236
CS 456	Special Topics in Computer science	3	CS 236
CS 462	Special Topics in Software Engineering	3	CS 310
CS 371	CO-OP-1	3	
CS 372	CO-OP-2	3	
CS 471	CO-OP-3	3	
CS 472	CO-OP-4	3	