GRAMBLING STATE UNIVERSITY
College of Arts and Sciences
Department of Mathematics and Computer Science
Computer Science Curriculum (Catalog: __Fall 2009__)
B. S. in Computer Science

Name: _____ **SSN:** _____

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 001	**First Year Experience I**	1		
			FYE 002	**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		
			MATH 273	Probability and Statistics I	3	MATH 131/147	
			ENG 200	World Literature I	3		
			ENG 207	Intro. to Technical Writing	3		
			PHYS 153	General Physics I	3		
			PHYS 153L	General Physics Laboratory	1		
			ST 212	Fund. of Public Speaking	3		
			PA 201	Ethics for pub. Serv.	3		
			MATH 201	Calculus III	3	MATH 154	
			CS 210	Discrete Structures	3	**CS 110**	
			CS 225	Comp. Org. & Assembly Language	3	CS 120	
			CS 235	Data Structures	3	**CS 120, CS 210**	
				TOTAL	**31**		
JUNIOR							
			PHYS 154	General Physics II	3		
			PHYS 154L	General Physics Laboratory	1		
			SOC 101	**Introduction to Social Science**	**3**		
			MATH 309	Intro. to Linear Algebra	3	MATH 154	
			MATH 421	Numerical Methods I	3	MATH 201	
			MATH 274	Probability and Statistics II	3	MATH 273	
			CS 310	Software Engineering	3	CS 235	
			CS 320	Database Management Systems	3	CS 235	
			CS 336	Programming Language Concepts	3	CS235	
			CS 345	Operating Systems	3	CS225 and CS235	
			CS 360	Design & Analysis of Algorithms	3	CS235	
				TOTAL	**31**		

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SENIOR							
			ECON 201	**Non-Major Elective**	**3**		
			ART 210	**Non-Major Elective**	**3**		
			CHEM 101	**Environmental Chemistry**	3		
			CS 405	Software Development	3	CS310	
			CS 414	Computer Architecture	3	CS345	
			CS 419	Computer Networks	3	CS345	
			CS454	Theory of Computing	3	CS 336, CS 345	
			CS 4xx	Major Elective	3	See list	
			CS 4xx	Major Elective	3	See list	
				Foreign Language	**3**		
				Foreign Language	**3**		
				TOTAL	**33**		
				TOTAL	**125**		

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

COMPUTER SCIENCE ELECTIVES

Course Number	Course Name	Hrs.	Prerequisites
CS426	Artificial Intelligence	3	CS 235
CS428	Computer Graphics	3	CS 235
CS440	Computer Performance Evaluation	3	CS345, MATH 274
CS445	Modeling and Simulation	3	CS 235, MATH 274
CS 424	Advanced Programming Techniques	3	CS 235
CS456	Special Topics in Computer Science	3	CS 235
CS459	Special Topics in Database Management Systems	3	CS320

This with the approval of the following Faculty members
1. **Yenumula B Reddy, Ph. D., Computer Science**
2. **DJamal Bouchaffra , Ph. D., Computer Science**
3. **Brenda Miles, Ph. D.,   Computer Science**
4. **Nelly Delessy, Ph.D., Computer Science**