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Department of	cien g*		ems	*	uce			erin	are*
Computer Science Tracks	Computational Scien & Engineering*	Computer Graphics Visualization*	Database & Information Systems*	Algorithmic Foundations*	Machine Intelligence*	Programming Languages*	Security*	Software Engineering*	Systems Software*
Fall 2019 and later	Compu & E	Compu Visi	Da	For	Machin	Prog	Sec	Softwa	Syste
CS Elective (300 level or higher*)					_				
CS 30700 Software Engineering						1	1		
CS 31400 Numerical Methods									
CS 33400 Fundamentals of Computer Graphics									
CS 34800 Information Systems							#		
CS 35200 Compilers: Principles & Practice	-JVS								
CS 35300 Principles of Concurrency & Parallelism	13		i				Ж		
CS 35400 Operating Systems	10								
CS 35500 Introduction to Cryptography	0.10		il.						
CS 37300 Data Mining & Machine Learning	PUS						J\r		
CS 38100 Introduction to Analysis of Algorithms	pps								
CS 39000 Web Application Development									
CS 39000 Virtual Reality Applications	+								
CS 40700 Software Engineering Senior Project									
CS 40800 Software Testing							1		
CS 42200 Computer Networks			III				'		
CS 42600 Computer Security			II						
CS 43400 Advanced Computer Graphics									
CS 44800 Introduction to Relational Database Systems						- H	Ж		
CS 45600 Programming Languages						"			
CS 47100 Introduction to Artificial Intelligence			III				W		
CS 47300 Web Information Search & Management	.pps			"					
CS/BIOL 47800 Introduction to Bioinformatics	pps		111						
CS 48300 Introduction to Theory of Computation	ρρσ		III						
CS 48900 Embedded Systems			1111				V		
CS 49000-DSO Distributed Systems							W		
CS 49000-HCI Human-Computer Interactions									
CS 49000-IDV Introduction to Data Visualization									
CS 49000-IDA Large-Scale Data Analysis									
CS 49000-SWS Software Security									
CS 49000 Independent Study									
CS 49000 Senior Project*									
CS 49700 Honors Research Project*			#	1					
CS 5100 Software Engineering									
CS 51400 Numerical Analysis									
CS 51500 Numerical Linear Algebra									
CS 52000 Optimization									
CS 52500 Parallelism									
CS 56000 Reasoning about Programs									

CS 57700 Natural Language Processing						
CS 57800 Statistical Machine Learning						
CS 59000-SRS Software Reliability and Security						
ECE 30100 – Signals & Systems	PPS					
EPCS 41100 + 41200 EPCS Senior Design Participation		_#				
IE 33500 Operations Research - Optimization						
IE 33600 Operations Research – Stochastic Models	pps					
MA 26600 Ordinary Differential Equations						
MA 34100 Analysis I						
MA 35301 Linear Algebra II						
MA 36200 Topics in Vector Calculus						
MA 36600 Ordinary Differential Equations			-			
MA 38500 Introduction to Logic				_#		
MA 42100 Linear Programming and Optimization						
Techniques						
MA 44000 Analysis II						
MA 45300 Elements of Algebra I				#		
STAT/MA 41600 Probability			1			
STAT 51200 Applied Regression Analysis			1			

Required	Elective	Required
One is Required	Choose only one as Elective	

^{*}Refer to https://www.cs. purdue.edu/undergraduate/curriculum/bachelor.html for more information