

B.S. in Computer Science Sample Curriculum by Semester for Students Starting  
Fall 2010 thru Current

First semester		Second semester		Third semester		Fourth semester	
CS 100	2	CS 116	2	CS 330	3	CS 350	3
CS 115	2	MATH 152	5	CS 331	3	CS 430	3
MATH 151	5	PHYS 123	4	MATH 251	4	MATH 332 or 333	3
HUM 100-level elective	3	Social Science elec.	3	PHYS 221	4	Science elective	3
Social Science elective	3	Humanities elective	3	Social Science elective	3	Humanities elective	3
	15		17		17		15

Fifth semester		Sixth semester		Seventh semester		Eighth semester	
CS 351	3	CS 450	3	CS 487	3	CS 485	3
CS 425	3	CS elective	3	CS elective	3	CS elective	3
CS 440	3	Math elective	3	Science elective	3	CS elective	3
MATH 474 or 475	3	IPRO I	3	IPRO II	3	Free elective	3
COM421 or 428	3	Free elective	3	Hum or Soc Sci elective	3	Free elective	3
				Free elective	3		
	15		15		18		15

<b>Total credit hours</b>	<b>127</b>
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CS 100 Introduction to the Profession I  
 CS 115 Object-Oriented Programming I  
 CS 116 Object-Oriented Programming II  
 CS 201 Accelerated Introduction to Computer Science  
 CS 330 Discrete Structures  
 CS 331 Data Structures and Algorithms  
 CS 350 Computer Organization and Assembly Language Programming  
 CS 351 Systems Programming  
 CS 411 Computer Graphics  
 CS 422 Data Mining  
 CS 425 Database Organization  
 CS 429 Information Retrieval  
 CS 430 Introduction to Algorithms  
 CS 440 Programming Languages and Translators  
 CS 441 Current Topics in Programming Languages  
 CS 442 Mobile Device Application Development  
 CS 443 Compiler Construction  
 CS 445 Object-Oriented Design and Programming  
 CS 447 Distributed Objects  
 CS 450 Operating Systems  
 CS 455 Data Communications  
 CS 456 Wireless Networks  
 CS 458 Information Security  
 CS 470 Computer Architecture  
 CS 480 Artificial Intelligence: Planning and Control  
 CS 481 Artificial Intelligence: Language Understanding  
 CS 482 Knowledge Management  
 CS 485 Computers and Society  
 CS 487 Software Engineering