

# Bachelor of Science in Computer Science

## BS.CSC Catalog Year 2013

**MINIMUM GRADES:** All Computer Science, Mathematics, Science and English courses have a minimum grade of C.

This Curriculum Guide is official but only suggests a semester-sequential plan. Courses may be taken in any order as long as the prerequisites and other requirements are met.

Course Number	Substitute / Course Choice	√	First Academic Year		
			Course	Credits	Prerequisite
IUL 101			Introduction to University Life	3	
CSC 101			Introduction to the Comp Sci Profession	1	
CSC 170/170L			Computer Programming I and Lab	4	MTH 105
MTH 153			College Algebra and Trigonometry	3	
ENG 101			Communications Skills I	3	
PED 100			Fundamental of Fitness for Life	1	
CSC 260/260L			Computer Programming II and Lab	4	CSC 170
MTH 184			Calculus I	4	MTH 153
ENG 102			Communication Skills II	3	ENG 101
→			Social Science Elective <sup>1</sup>	3	
HED 100			Personal and Community Health	2	
				<b>31</b>	

Course Number	Substitute / Course Choice	√	Second Academic Year		
			Course	Credits	Prerequisite
ENG 299			Examin. of Writing Competency	0	
CSC 372			Data Structures	3	CSC 260
→			Laboratory Science Elective <sup>2</sup>	4	
MTH 251			Calculus II	4	MTH 184
MTH 371			Discrete Mathematical Structures	4	MTH 184
CSC 268			Computer Organization	3	CSC 170
CSC 295			Java Application Programming	3	CSC 260
CSC 361			Survey of Programming Languages	3	CSC 260
ENG 303			Technical Writing	3	ENG 102
SCM 285			Principles of Speech	3	ENG 102
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<sup>1</sup> HIS 101; HIS 103; BUS 175; ECN 200; SOC 101

<sup>2</sup> PHY 152/152L (prerequisite MTH 153) or CHM 221/221L (prerequisite MTH 153) or BIO 110/110L

Course Number	Substitute / Course Choice	√	Third Academic Year		
			Course	Credits	Prerequisite
CSC 292			UNIX and C Programming	3	CSC 260
CSC 380			Software Engineering	3	CSC 260
CSC 468			Computer Architecture	3	CSC 268
MTH 351			Probability and Statistics I	3	MTH 251
→			First semester of Science Sequence <sup>3</sup>	4	
CSC 430			Data Communication	3	CSC 372
→			Computer Science Elective (300 level or above)	3	
→			Humanities <sup>4</sup>	3	
→			Second Semester Science Sequence <sup>5</sup>	4	

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Course Number	Substitute / Course Choice	√	Fourth Academic Year		
			Course	Credit	Prerequisites
CSC 498			Senior Seminar I	1	
CSC 464			Operating Systems	3	CSC 372
→			Mathematics Elective 300 level or above	3	
→			Computer Science Elective 300 level or above	3	
→			Social Science Cultural Elective <sup>6</sup>	3	
→			Humanities Cultural Elective <sup>7</sup>	3	
CSC 499			Senior Seminar II	2	CSC 498
→			Computer Science Electives 300 level or above	3	
→			Computer Science Electives 300 level or above	3	
→			Computer Science or Mathematics Elective 300 level or above	3	
→			Free Elective	3	

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### 120 Credits Total

3 First Course and Lab of Science Sequence: PHY 152/152L, CHM 221/221L, BIO 110/110L (not an extension of course in footnote 2)

4 ENG 207, FIA 201; MUS 301

5 Second Course and Lab of Science Sequence: PHY 153/153L, CHM 222/222L, BIO 111/111L; must be a continuation of course in footnote 2 or 3

6 HIS 335; HIS 336; HIS 371; HRP 320

7 ENG 383; MUS 234