

**Bachelor of Science in Computer Science
Information Assurance Track
BS Computer Science: Track IA
BS.CSC.IAT
Catalog Year 2017**

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
SEM 101			Spartan Seminar I	1	
CSC 101			Introduction to the Comp Sci Profession	1	
CSC 170/170L			Computer Programming I and Lab	4	MTH 105
ENG 101			Communications Skills I	3	
MTH 153			College Algebra and Trigonometry	3	
PED 100			Fundamental of Fitness for Life	1	
SEM 102			Spartan Seminar 2	1	SEM 101
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
HED 100			Personal and Community Health	2	
→			Social Science Elective ¹	3	
				30	

Course Number	Substitute / Course Choice	√	Second Academic Year		
			Course	Credits	Prerequisite
SEM 201			Spartan Seminar 3	1	SEM 102
CSC 372			Data Structures	3	CSC 260
→			Laboratory Science Elective ²	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 275			Fundamentals of Cybersecurity	3	CSC 260
ENG 303			Technical Writing	3	ENG 102
SCM 285			Principles of Speech	3	ENG 102

1 HIS 101; HIS 103; BUS 175; ECN 200; SOC 101

2 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 430			Data Communication	3	CSC 372
MTH 351			Probability and Statistics I	3	MTH 251
→			First semester of Science Sequence ³	4	
CSC 442			Cryptography and Network Security	3	CSC 430
→			Humanities Elective ⁴	3	
CSC 420			Database Principles and Design	3	CSC 260
CSC 361			Survey of Programming Languages	3	
→			Second Semester Science Sequence ⁵	4	
				32	

Course Number	Substitute / Course Choice	√	Fourth Academic Year		
			Course	Credits	Prerequisite
CSC 445			Computer Network Defense	3	CSC 260
CSC 498			Senior Seminar I	1	
CSC 464			Operating Systems	3	CSC 372
→			Mathematics Elective 300 level or above	3	
CSC 313			Network Administration	3	ITE 311
→			Social Science Cultural Elective ⁵	3	
CSC 468			Computer Architecture	3	CSC 268
CSC 499			Senior Seminar II	2	CSC 498
CSC 494			Digital Forensics	3	CSC 445
→			Humanities Cultural Elective	3	
				27	

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