

**CURRICULUM SUMMARY FOR THE BACHELOR OF SCIENCE IN  
COMPUTER SCIENCE  
GENERAL CS CONCENTRATION  
TOTAL CREDITS REQUIRED:122**

CORE CURRICULUM (STANDARD)*		MAJOR (COMPUTER SCIENCE)	OTHER REQUIREMENTS	MINOR REQUIREMENTS
TSU COURSES	TCCNS EQUIVALENT			
42 credits		51 credits	29 credits	0 credits
<u>Communication:</u>		CS 124 (3)	MATH 241 (4)	
ENG 131 (3) **	ENGL 1301	CS 140 (3)	MATH 242 (4)	
ENG 132 (3)	ENGL 1302	CS 241 (3)	MATH 250 (3)	
<u>Mathematics:</u>		CS 243 (3)	MATH 473 (3) or MATH 345 (3)	
MATH 136 (3)	MATH 2312	CS 246 (3)	PHYS 213 (1)	
<u>Life and physical sciences:</u>		CS 248 (3)	PHYS 214 (1)	
CHEM 131 or BIOL 143 (3)	CHEM 1311or BIOL 1308	CS 250 (3)	PHYS 238 (3)	
PHYS 237 (3)	PHYS 1301	CS 342 (3)	FS 102 (1)	
<u>Language, philosophy, and culture:</u>		CS 343 (3)	Elective Courses (9)	
ENG 2xx (3) ***		CS 346 (3)		
<u>Creative arts:</u>		CS 415 (3)		
MUSI 136 or ART 135 (3)	MUSI 1306 OR ARTS 1301	CS 444 (3)		
<u>American history:</u>		CS 456 (3)		
HIST 231 (3)	HIST 1301	CS 499 (3)		
HIST 232 (3)	HIST 1302	CS 3xx or 4xx (3)		
<u>Government/political science:</u>		CS 4xx or 5xx (3)		
POLS 235 (3)	GOVT 2305	CS 4xx or 5xx (3)		
POLS 236 (3)	GOVT 2306			
<u>Social and behavioral sciences:</u>				
ECON 231 (3)	ECON 2301			
<u>Institutional Options:</u>				
SC 135 or SC 136 (3)	SPCH 1321 or SPCH 1315			
CS 120 (3)	COSC 1336 or 1436			

\* Students should be advised by a major advisor prior to registering for any credit, particularly any core curriculum credit as listed.

\*\* (N) represents the number of course credits.

\*\*\* ENG 230, ENG 231, ENG 235, or ENG 244 (TCCN: ENGL 2332, ENGL 2333, ENGL 2326, or ENGL 2326)

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First Year	FIRST SEMESTER		SECOND SEMESTER	
	CS 120 Introduction to Programming using C++	3	CS 124 Fund of Machine Comp	3
	MATH 136 Precalculus	3	CS 140 Computer Programming in Java	3
	CHEM 131 or BIOL 143 General Chemistry, Survey of Life Science	3	MATH 241 Calculus & Analytic Geometry I	4
	ENG 131 Freshman English I	3	ENG 132 Freshman English II	3
	MUSI 136 or ART 135 (3) Music Appreciation or Topics in Contemp Art & Culture	3	SC 135 or 136 Business & Professional Communication or Public Address	3
	FS 102 Freshman Seminar	1		
		<b>16 Hrs</b>		<b>16 Hrs</b>

Second Year	THIRD SEMESTER		FOURTH SEMESTER	
	CS 241 Object Oriented Using C++	3	CS 246 Data & File Structures	3
	CS 243 Computer Organization	3	CS 248 Theory of Computation	3
	MATH 242 Calculus & Analytic Geometry. II	4	CS 250 Computer Networks Fundamentals	3
	PHYS 213 College Physics Lab I	1	MATH 250 Linear Algebra	3
	PHYS 237 College Physics I	3	PHYS 214 College Physics Lab II	1
	ENG 2XX Any 200 Level ENG may be selected	3	PHYS 238 College Physics II	3
		<b>17 Hrs</b>		<b>16 Hrs</b>

Third Year	FIFTH SEMESTER		SIXTH SEMESTER	
	CS 342 Programming Languages and Design	3	CS 346 Database Management Systems	3
	CS 343 Microprocessors Design	3	CS 300/400 CS Elective	3
	POLS 235 American Political Systems I	3	POLS 236 American Political Systems II	3
	HIST 231 Social & Political History of the United States to 1877	3	HIST 232 Social & Political History of the United States since 1877	3
	Elective Course	3	ECON 231 Principles of Economics I	3
		<b>15 Hrs</b>		<b>15 Hrs</b>

Fourth Year	SEVENTH SEMESTER		EIGHTH SEMESTER	
	CS 444 Operating Systems	3	CS 456 Software Engineering	3
	CS 415 Computer Ethics and Society	3	CS 499 Capstone Project	3
	CS 400/500 CS Elective	3	CS 400/500 CS Elective	3
	MATH 345 Applied Math for Scientists or MATH 473 Probability and Statistics I	3	Elective Course	3
	Elective Course	3		
		<b>15 Hrs</b>		<b>12 Hrs</b>