

**Computer Science**  
**Bachelor of Science (B.S.) <036T>**  
 Catalog Year 2016-17

First Semester				Second Semester			
ENGL	101	Composition and Rhetoric ( <i>GEF 1</i> )	3.00	ENGL	102	Composition and Rhetoric ( <i>GEF 1</i> )	3.00
CS	121	Computer Science I	4.00	CS	122	Computer Science II	4.00
GEF	5	Human Inquiry and the Past	3.00	GEF	6	The Arts and Creativity	3.00
		General Elective	3.00	GEF	7	Global Studies and Diversity	3.00
WVUE	191	First Year Seminar	1.00	GEF	8	Focus	3.00
			<b>14.00</b>				<b>16.00</b>
Third Semester				Fourth Semester			
MATH	155	Calculus I ( <i>GEF 3</i> )	4.00	MATH	156	Calculus II ( <i>GEF 8</i> )	4.00
GEF	2B	Laboratory Science <sup>(1)</sup>	4.00	GEF	8	Laboratory Science <sup>(1)</sup>	4.00
CS	201	Data Structures	3.00	CS	310	Principles of Programming Languages	3.00
CS	231	Intro to Computer Organization	3.00	CS	222	Software Engineering	3.00
CS	265	C Programming	2.00	CS	220	Discrete Mathematics	3.00
			<b>16.00</b>				<b>17.00</b>
Fifth Semester				Sixth Semester			
MATH	251	Multivariable Calculus	4.00	MATH	441	Applied Linear Algebra	3.00
ECON	401	Managerial Economics ( <i>GEC 4</i> )	3.00	ENGL	305	Technical Writing	3.00
CS	321	Intro to Networking	3.00	CS	350	Computer Systems Concepts	3.00
CS	221	Analysis of Algorithms	3.00	CS	324	Database Management	3.00
			<b>13.00</b>			CS Elective <sup>(2)</sup>	3.00
							<b>15.00</b>
Seventh Semester				Eighth Semester			
CS	450	Operating System Structure	3.00	CS	410	Compiler Construction	3.00
CS	480	Senior Design Seminar	2.00	CS	481	Senior Design Project	3.00
MATH	448	Probability and Statistics	3.00	CS	479	Advanced CS Math	3.00
		CS Elective <sup>(2)</sup>	3.00			CS Elective <sup>(2)</sup>	3.00
		Technical Elective <sup>(3)</sup>	3.00			Technical Elective <sup>(3)</sup>	3.00
			<b>14.00</b>				<b>15.00</b>
<b>Total hours necessary to earn the degree =</b>			<b>120.00</b>				

Notes: <sup>(1)</sup> **Laboratory Science** is restricted to BIOL 111, BIOL 112, CHEM 111, CHEM 112, CHEM 115, CHEM 116, PHYS 101, PHYS 102, PHYS 111, and PHYS 112.

<sup>(2)</sup> **CS Electives** may be chosen from and 300 - 400 level CS class, except CS 491.

<sup>(3)</sup> **Technical Electives** may be chosen from the approved list.

Promise Scholars have to take a total of 30 hours a year to maintain their scholarships. Other financial aid programs may have similar requirements..