

# BACHELOR OF SCIENCE, MAJOR IN COMPUTER SOFTWARE ENGINEERING TECHNOLOGY

Code	Title	Hours
<b>Bachelor of Science, Major in Computer Software Engineering Technology</b>		
<b>Core Curriculum</b>		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
<b>Degree Specific Requirements</b>		
MATH 1420	Calculus I <sup>1</sup>	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
MATH 3379	Statistical Mthods In Practice	3
3 ADV MATH hours		3
<b>Major</b>		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2327	Intro to Computer Networks	3
COSC 2329	Comp Organiz & Machine Lang	3
COSC 3312	Numerical Methods	3
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 3321	Digital System Design	3
COSC 3327	Computer Architecture	3
COSC 4314	Data Mining	3
COSC 4318	Advanced Language Concepts	3
COSC 4319	Software Engineering	3
COSC 4320	System Modeling and Simulation	3
COSC 4332	Computer Graphics	3
COSC 4340	Spc Tpcs In Computer Sci	3
COSC 4349	Professionalism and Ethics	3
<b>Electives</b>		
COSC Electives <sup>2</sup>		6
General Electives <sup>2</sup>		9
Total Hours		120

<sup>1</sup> **MATH 1420** satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option).

<sup>2</sup> Electives should be used to meet the 42 advanced hour requirement.

## First Year

Fall	Hours Spring	Hours
Component Area III	4 Component Area III	4
COSC 1436	4 COSC 1437	4
ENGL 1301 <sup>1</sup>	3 ENGL 1302 <sup>1</sup>	3

MATH 1420 <sup>2</sup>	4 MATH 1430	4
	15	15
<b>Second Year</b>		
<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
Component Area IV	3 Component Area V	3
Component Area VIII	3 COSC 3312	3
COSC 2329	3 COSC 3318	3
HIST 1301 <sup>3</sup>	3 HIST 1302 <sup>3</sup>	3
POLS 2305 <sup>4</sup>	3 POLS 2306 <sup>4</sup>	3
	15	15
<b>Third Year</b>		
<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
Component Area IX	3 COSC 3327	3
COSC 2327	3 COSC 4314	3
COSC 3319	3 COSC 4318	3
COSC 3321	3 Elective (Advanced)	3
MATH 2395	3 MATH 3379	3
	15	15
<b>Fourth Year</b>		
<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
COSC 4319	3 COSC 4340	3
COSC 4320	3 COSC 4349	3
COSC 4332	3 COSC/DFSC Advanced Elective	3
Elective (Advanced)	3 COSC/DFSC Elective	3
MATH (Advanced)	3 Elective (Advanced)	3
	15	15
Total Hours: 120		

<sup>1</sup> Satisfies Core Curriculum requirement for Component Area I (Communications).

<sup>2</sup> Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

<sup>3</sup> Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

<sup>4</sup> Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).