Bachelor of Science in Information Technology
Major Code: 0432
Fall 2015

Course		CR	Course		CR
Freshman Year: First Semester			**Freshman Year: Second Semester**		
CST 101	Microcomputer Application	3	CST 112	Electric Circuits I	3
CST 130	Intro to Unix/Linux	3	CST 122	Electric Circuits I Lab	1
ENGL 100	Ideas and Their Expressions I	3	CST 140	Intro to Computer Programming	3
FRST 100	University Experience I	1	ENGL 101	Ideas and Their Expressions II	3
MATH 110	Pre-Calculus for Eng/Sci I	4	FRST 101	University Experience II	1
	Humanities & Fine Arts(HFA)[1]	3	MATH 131	Calculus I	4
Semester Total		17	**Semester Total**		15
Sophomore Year: First Semester			**Sophomore Year: Second Semester**		
CST 231	Web Systems	3	CST 225	Computer DB Manag. I	3
CST 240	Applied Java Programming	3	CST 235	Computer DB Manag. I Lab	1
MGMT 220	Business Environment	3	CST 285	Econ. and Social Impacts of IT	3
	Humanities & Fine Arts(HFA)[1]	3	SPCH 250	Speech Fundamentals	3
	Scientific Reasoning with Lab[2]	4		Scientific Reasoning[2]	3
				Social & Behavioral Sciences(SBS)[1]	3
Semester Total		16	**Semester Total**		16
Junior Year: First Semester			**Junior Year: Second Semester**		
CST 325	Computer Database Management II	3	CST 300	Intro to Project Management	3
CST 329	Computer Networking I	3	CST 315	Network Security Applications	3
CST 339	Computer Networking I Lab	1	CST 317	Human Computer Interaction	3
MATH 224	Intro to Probability and Statistics	3	CST430	Linux System Administration	3
	Social & Behavioral Sciences(SBS)[1]	3		Track Elective TE [3]	3
	Track Elective TE [3]	3			
Semester Total		16	**Semester Total**		15
Senior Year: First Semester			**Senior Year: Second Semester**		
CST 460	System Integration & Architecture	3	CST 499	Senior Capstone Project	3
CST 498	Senior Capstone Project	3		Track Elective TE [3]	3
	Track Elective TE [3]	3		Track Elective TE [3]	3
	Track Elective TE [3]	3		Track Elective TE [3]	3
	Free Elective [4]	3		Free Elective [4]	3
Semester Total		15	**Semester Total**		15

Total Credit Hours: 125

[1] **HFA/SBS Electives:** Of the 12 total credit hours required in the Social/Behavioral Sciences and Humanities/Fine Arts categories, at least 3 credit hours must be earned in courses with a Knowledge of African American Culture and History designation and at least 3 credit hours must be earned in courses with a Global Awareness designation. Refer to the University website for an up to date listing of acceptable courses.

[2] **Scientific Reasoning Electives:** Students must complete at least one lab-based science course. Refer to the University website for an up to date listing of acceptable courses.

[3] **Track Electives:** See next page for CST Track Electives.

[4] **Free Electives**: Any course at or above the 100 level may be taken as a free elective.

**A C or better must be earned in all required CST courses

Department of Computer Systems Technology
Track Electives

Storage Technology	Computer Engineering Technology
CST305 Foundation of Storage Technology	CST413 Advanced Digital Systems
CST306 Big Data Analytics	CST414 ASIC/FPGA Design
CST405 Cloud Infrastructure and Services	CST432 Computer Systems Architecture
CST406 Backup Recovery Systems and Architecture	CST434 HPC Architecture and System Administration
Enterprise Computing	**Wireless Systems**
CST340 Introduction to Mainframe Operations	CST350 Communications Systems
CST357 Network Servers	CST450 Wireless Communication Systems I
CST430 Linux System Administration	CST465 Wireless Geo-Location Systems I
CST475 Video Communications	
Mainframe Computing	**High Performance Computing**
CST340 Introduction to Mainframe Operations	CST433 Introduction to High Performance Computing
CST346 Intermediate Enterprise Systems Operations	CST434 HPC Architecture and System Administration
CST347 Advanced Enterprise Systems Operations	CST435 Introduction to Parallel Programming
Security & Networking	**Power Technology**
CST315 Network Security Applications	CST314 Active Circuits II
CST316 Information Security	CST355 Electrical Power & Machinery
CST448 Advanced Network Security Application	CST445 Power Electronics
CST330 Computer Networking II	CST481 Power Systems Analysis and Control
Information Management	**Renewable Energy Technology**
CST325 Computer Database Management II	CST383 Alternative Energy Systems
CST326 Database Security	CST384 Energy, Power, and the Environment
CST425 Data Warehousing	CST483 Solar Energy
CST426 Actionable Knowledge Mining	CST484 Wind and Water Energy