Bachelor of Science in Electronics Technology
Major Code: 0340
Fall 2015

Course		CR	Course		CR
Freshman Year: First Semester			**Freshman Year: Second Semester**		
CST 101	Microcomputer Applications	3	CST 112	Electric Circuits I	3
CST 120	Fundamentals of Technology	3	CST 122	Electric Circuits I Lab	1
CST 130	Intro to Unix/Linux	3	CST 140	Intro to Computer Programming	3
ENGL 100	Ideas and Their Expressions I	3	ENGL 101	Ideas and Their Expressions II	3
FRST 100	University Experience I	1	FRST 101	University Experience II	1
MATH 110	Pre-Calculus for Eng/Sci	4	MATH 131	Calculus I	4
Semester Total		**17**	**Semester Total**		**15**
Sophomore Year: First Semester			**Sophomore Year: Second Semester**		
CST 212	Electric Circuits II	3	CST 213	Digital Circuits	3
CST 222	Electric Circuits II Lab	1	CST 223	Digital Circuits Lab	1
CST 240	Applied Java Programming	3	CST 225	Computer Database Manag I	3
MATH 132	Calculus II	4	CST 235	Computer Database Manag I Lab	1
PHYS 225	College Physics I	3	CST 285	Economic and Social Impacts of IT	3
PHYS 235	College Physics I Lab	1	PHYS 226	College Physics II	3
			PHYS 236	College Physics II Lab	1
Semester Total		**15**	**Semester Total**		**15**
Junior Year: First Semester			**Junior Year: Second Semester**		
CST 312	Active Circuits I	3	CHEM 106	General Chemistry VI	3
CST 322	Active Circuits I Lab	1	CHEM 116	General Chemistry VI Lab	1
CST 329	Computer Networking I	3	CST 300	Intro to Project Management	3
CST 339	Computer Networking I Lab	1	SPCH 250	Speech Fundamentals	3
MATH 224	Intro to Probability and Statistics	3		Humanities & Fine Arts(HFA)[2]	3
MGMT 220	Business Environment	3		Track Elective TE [1]	3
	Track Elective TE [1]	3			
Semester Total		**17**	**Semester Total**		**16**
Senior Year: First Semester			**Senior Year: Second Semester**		
CST 496	Senior Colloquium	1	CST 499	Senior Project Capstone Experience	3
CST 498	Senior Capstone Project	3		Humanities & Fine Arts(HFA)[2]	3
	Track Elective TE [1]	3		Track Elective TE [1]	3
	Free Elective [3]	3		Track Elective TE [1]	3
	Social & Behavioral Sciences(SBS)[2]	3		Free Elective [3]	3
	Social & Behavioral Sciences(SBS)[2]	3			
Semester Total		**16**	**Semester Total**		**15**

Total Credit Hours: 126

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

[2] **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.

[3] **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, math, and science 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