Curriculum Guide for
Bachelor of Science Electronics Technology (Fall 2012)
Major Code: 0340

FRESHMAN YEAR

First Semester		*Credits*	*Second Semester*		*Credits*
ECT 101	Microcomputer Applications	3	ECT 201	Introduction to Computer Programming	3
ECT 120	Quantitative Fundamentals	3	ECT 211	Electric Circuits I	3
ITT 420	Introduction to Unix/Linux	3	ITT 111	Managing, Maintaining, and Troubleshooting Hardware	3
MATH 110	Pre-Calculus for Eng/Sci	4	MATH 131	Calculus I	4
	Written Communications(1)	3		Written Communications(1)	3
		16			16

SOPHOMORE YEAR

First Semester		*Credits*	*Second Semester*		*Credits*
ECT 212	Electric Circuits II	3	ECT 213	Digital Circuits	3
ITT 240	Applied Java Programming	3	ITT 185	Economic and Social Impacts of IT	3
MATH 132	Calculus II	4	ITT 325	Introduction to Computer Database	3
PHYS 225	College Physics I	3	PHYS 226	College Physics II	3
PHYS 235	College Physics I Lab	1	PHYS 236	College Physics II Lab	1
	Humanities and Fine Arts HFA-AA(2)	3	SPCH 250	Speech Fundamentals	3
		17			16

JUNIOR YEAR

First Semester		*Credits*	*Second Semester*		*Credits*
ITT 315	Network Security	3	CHEM 106	General Chemistry VI (4)	3
ITT 329	Computer Networking I	3	CHEM 116	General Chemistry VI Lab(4)	1
MATH 224	Introduction to Probability and Statistics	3	ITT 300	Introduction to Project Management	3
	Track Elective TE (3)	3		Humanities and Fine Arts HFA-GL(5)	3
	Track Elective TE (3)	3		Track Elective TE (3)	3
				Track Elective TE (3)	3
		15			16

SENIOR YEAR

First Semester		*Credits*	*Second Semester*		*Credits*
ITT 598	Senior Capstone Project	3	ECT 598	Senior Project Capstone Experience	3
	Track Elective TE (3)	3	MGMT 220	Business Environment	3
	Track Elective TE (3)	3		Humanities and Fine Arts/General	3
	Social and Behavioral Sciences SBS (6)	3		Track Elective TE (3)	3
	Social and Behavioral Sciences SBS(6)	3		Track Elective TE (3)	3
		15			15
	Total Credit Hours:	126			

(1) General Education Electives – Written Communications (WC) – A total of 6 hours is required.
(2) General Education Electives – Humanities and Fine Arts Knowledge of African-American Culture and History (HFA-AA) – A total of 3 hours is required.
(3) Track Electives – Track Electives (TE) – A student must complete at least 2 tracks in their entirety. (See next page.)
(4) General Education Electives – Scientific Reasoning (SR) – A total of 4 hours is required. Students may take CHEM 106/116 or BIOL 100.
(5) General Education Electives – Humanities and Fine Arts Global Awareness (HFA-GL) – A total of 3 hours is required. Students may take any course from the HFA-GL course list.
(6) General Education Electives – Social and Behavioral Science (SBS) – A total of 6 hours is required. Students may take any course from the SBS course list.

Effective Fall 2012 **Provost Approved 5/30/2012**

Track Electives

Students must complete courses from at least two different tracks. Tracks are to be completed in their entirety. A track consists of up to four courses with a particular emphasis. A total of 24 credit hours of track electives is required. The following is a list of tracks. Please see your advisor to receive an updated list of tracks.

Storage Technology
ITT 305 Foundation of Storage Technology

Wireless Systems
ECT 350 Communications Systems
ECT 550 Wireless Communication Sys I
ECT 565 Wireless Geo-Location Sys I

Mainframe Computing
ITT 340 Introduction to Mainframe Operations

High Performance Computing
ITT 433 Intro to High Performance Computing
ITT 434 HPC architecture and system administration
ITT 435 Intro to parallel programming

Computer Engineering Technology
ECT 413 Advanced Digital Systems
ECT 414 ASIC/FPGA Design
ECT 432 Computer Systems Architecture
ECT 434 High Performance Computing Architecture and System Administration

Information Management
ITT 525 Computer Database Management
ITT 326 Database Security

Enterprise Computing
ITT 430 Linux System Administration
ITT 575 Video Communications

Security
ITT 315 Network Security Applications for Info Tech
ITT 316 Information Security
ITT 515 Advanced Network Security Application

Networking
ITT 315 Network Security Application for Info Tech
ITT 316 Information Security
ITT 330 Computer Networking II