Richmond Community College - North Carolina A&T State University

AAS in Electronics Engineering Technology - B.S. Electronics Technology

Richmond Community College	Credits	N.C. A&T	Credits
ENG 111 Expository Writing	3	ENGL 100 Ideas & Their Expression	3
ENG 112 Argument-Based Research	3	ENGL 101 Ideas & Their Expression II	3
MAT 171/171A Precalculus Algebra	4	MATH 111 College Algebra & Trig	4
Humanities/Fine Arts Elective	3	Humanities/Fine Arts Elective	3
Social/Behavioral Sciences Elective	3	Social/Behavioral Sciences Elective	3
ELC 131 DC/AC Circuit Analysis	5	ECT 211 Electric Circuits I	3
ELN 133 Digital Electronics	4	ECT 213 Digital Circuits	3
ELN 137 Electronic Devices and Circuits	5	ECT 212 Electric Circuits II	3
ELN 232 Introduction to Microprocessors	4		
ATR 218 Computer Integrated Manufacturing	3		
CET 111 Computer Upgrade/Repair I	3	ITT 111 Managing, Maintaining & Troubleshooting Hardware	3
CIS 110 Introduction to Computers	3	ECT 101 Microcomputer Applications	3
DFT 151 CAD I	3		
EGR 285 Design Project	2		
ELN 132 Linear IC Applications	4		
ELN 237 Local Area Networks	3		
ELN 260 Prog Logic Controllers	4		
HYD 110 Hydraulics/Pneumatics	3		
MAT 172/172A Precalculus Trig	4	MATH112 Calculus for Non-Math Majors	4
PHY 110/110A Conceptual Physics	4	PHYS 225/235 College Physics	4
ACA 115 Success & Study Skills	1	FRST 100 Freshman Studies	1
Total:	71	Total:	40

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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