A.A.S. in ELECTRICAL & COMPUTER ENGINEERING TECHNOLOGY (2313) 63 Credits

Essex County College, METCS Division – Curriculum Guide

STUDENT: _____   ID#: _____

General Education Requirements (22 Crs.)		Crs.	✓
Written & Oral Communications (6 Crs.)			
ENG 101	College Composition I	3	
ENG 105	Technical Writing	3	
Quantitative/Scientific Knowledge, Skills & Reasoning (7 Crs.)			
MTH 114	Unified Calculus I	3	
PHY 101	College Physics I	4	
Society & Human Behavior (6 Crs.)			
ECO 101	Principles of Economics I (Macro)	3	
ANT 101, 105; ECO 102; POL 101, 104; PSY 101, 102, 219; SOC 101, 108, 219	Choose **One** Additional Social Science General Education Course	3	
Historical Perspective (3 Crs.)			
E.g., HST 101, 102, 111, 112, 121, 122, 131, 132, 134, 135, 136, 137, 161, 162	Choose **One** History Course	3	
Major Requirements (32 Crs.)			
ELC 115	Electric Circuits: DC & AC	3	
ELC 120	Fundamentals of Analog Electronics	3	
ELC 218	Pulse & Digital Circuits	3	
ELC 222	Electronics III: Communications Systems	3	
ELC 228	Introduction to Microprocessors **Or** Approved Technical Elective	3	
ENR 100	Fundamentals of Engineering Design	2	
PHY 102	College Physics II	4	
Approved Technical Elective*		3	
Approved Technical Elective*		3	
Approved Technical Elective*		3	
Approved Technical Elective*		2	
Additional Requirements (8 Crs.)			
CSC 106	Roadmap to Computing Engineers	3	
ENR 103	Engineering Graphics	2	
MTH 213	Unified Calculus II	3	

*Approved Technical Electives are to be selected in consultation with a faculty adviser in the Division of METCS

REVISED MARCH 2021