

2018-19
CURRICULUM OUTLINE FOR A BACHELOR'S DEGREE IN:
ELECTROMECHANICAL ENGINEERING TECHNOLOGY

SEM	GRADE	COURSE & TITLE - UNIVERSITY STUDIES, 44 HOURS	HRS
ORAL AND WRITTEN COMMUNICATION			
		COM 161 INTRODUCTION TO PUBLIC SPEAKING	3
		ENG 105 CRITICAL READING, WRITING, AND INQUIRY Prereq: English ACT score of at least 18 or ENG 100, Reading ACT score of at least 20 or REA 100 + ESS 120	4
GLOBAL AWARENESS, CULTURAL DIVERSITY, AND THE WORLD'S ARTISTIC TRADITIONS			
		ANY COURSE IN CATEGORY	3
SCIENTIFIC INQUIRY, METHODOLOGIES, & QUANTITATIVE SKILLS			
		PHY 130/131 GENERAL PHYSICS I/LAB Prereq MAT 140 or equivalent (MAT 130)	4
		MAT 130 TECHNICAL MATH I TRIGONOMETRY Prereq: Math ACT 21 or MAT 097	5
		STA 135 INTRODUCTION TO PROBABILITY AND STATISTICS Prereq ACT score of at least 20 or MAT 097	4
SOCIAL & SELF-AWARENESS AND RESPONSIBLE CITIZENSHIP			
		ANY COURSE IN SUB-CATEGORY OF ETHICS, SOCIAL RESPONSIBILITY, & CIVIC ENGAGEMENT	3
		ECO 230 PRINCIPLES OF MACROECONOMICS OR ECO 231 PRINCIPLES OF MICROECONOMICS Prereqs: MAT 117, 120, 140 or 150; or Math ACT 23	3
WORLD'S HISTORICAL, LITERARY, & PHILOSOPHICAL TRADITIONS			
		CIV 201 WORLD CIVILIZATIONS I OR CIV 202 WORLD CIVILIZATIONS II	3
		HUM 211 THE WESTERN HUMANITIES TRADITION	3
UNIVERSITY STUDIES ELECTIVES			
		MAT 230 TECHNICAL MATH II Prereq: MAT 130	5
		PHY 132/133 GENERAL PHYSICS II/LAB Prereq: PHY 130/131	4
SEM	GRADE	CORE CLASSES, 60 HRS	HRS
		EMT 110 ELECTRICAL SYSTEMS I (S) Prereq: MAT 130	4
		EMT 201 ENGINEERING TECHNOLOGY SIMULATION (S) Prereq: MAT 130	3
		EMT 202 ENGINEERING TECHNOLOGY ANALYSIS (F) Prereq: EMT 201 and PHY 130/131	3
		EMT 210 ELECTRICAL SYSTEMS II (F) Prereqs: EMT 110	4
		EMT 261 INTRO TO FLUID POWER SYSTEMS (F) Prereqs: EMT 202, MAT 130; coreq EMT 262	3
		EMT 262 INTRO TO FLUID POWER SYSTEMS LAB (F) Prereqs: EMT 202, MAT 130; coreq EMT 261	1
		EMT 305 ELECTRICAL MACHINERY AND CONTROLS (S) Prereqs: EMT 210	4
		EMT 310 PROGRAMMABLE LOGIC CONTROLLERS (S) Prereq: EMT 110, EMT 201 and EMT 305	4
		EMT 312 INDUSTRIAL INSTRUMENTATION (F) Prereq: EMT 310 and MAT 230	4
		EMT 320 MECHATRONICS (F) Prereqs: EMT 261/262, EMT 310 and EMT 312	4
		EMT 351 POWER DISTRIBUTION (F) Prereq: EMT 110	3
		EMT 365 DYNAMICS FOR TECHNOLOGY (S) Prereq: EMT 202, EMT 261/262, ENT 287, PHY 132/133	3
		EMT 455 INDUSTRIAL NETWORKING SYSTEMS (S) Prereqs: EMT 210 and TSM 301	4
		EMT 461 ROBOTICS AND MOTION CONTROLS (S) Prereqs: EMT 261/262, EMT 312 and ENT 365	4
		ENT 287 STATICS FOR TECHNOLOGY Prereqs: MAT 130 and PHY 130/131	3
		ENT 393 ENGINEERING ECONOMY Prereq: to MAT 130	3
		ENT 419 SENIOR PROJECT (S)	3
		TSM 301 PHYSICAL NETWORK THEORY Prereq: to MAT 140 OR MAT 130	3
SUPPORT COURSES, 16 HRS			
		ENG 324 TECHNICAL WRITING Prereq: ENG 105	3
		ENT 100T TRANSITIONS (F)	1
		IET 399 PROFESSIONAL DEVELOPMENT SEMINAR I	1
		IET 488 COOPERATIVE EDUCATION/INTERNSHIP	1
		ITD 102 CAD APPLICATIONS (Fall freshman year)	3
		TECHNICAL ELECTIVES	7
TOTAL CURRICULUM REQUIREMENTS 120 HOURS			

Dated: April 2017

NOTE: MUST HAVE A "C" or better in course EMT classes