

2013-14
CURRICULUM OUTLINE FOR A BACHELOR'S DEGREE IN:
ELECTROMECHANICAL ENGINEERING TECHNOLOGY

SEM	GRADE	COURSE & TITLE - UNIVERSITY STUDIES, 43-47 HOURS	HRS
ORAL AND WRITTEN COMMUNICATION			
		COM 161 INTRODUCTION TO PUBLIC SPEAKING	3
		ENG 105 CRITICAL READING, WRITING, AND INQUIRY	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) OR PHY 235/236 MECHANICS, HEAT, & WAVE MOTION/LAB Coreq for PHY 235/236: MAT 250	4-5
		MAT 130 TECHNICAL MATH I TRIGONOMETRY Prereq: Math ACT 21 or MAT 097 OR MAT 150 ALGEBRA Prereq: Math ACT 23	5
		MAT 330 TECH. MATH III Prereq: MAT 230 OR MAT 308 CALCULUS & ANALYTIC GEOMETRY II Prereq: MAT 250	3 - 5
SOCIAL & SELF-AWARENESS AND RESPONSIBLE CITIZENSHIP			
		ANY COURSE IN SUB-CATEGORY OF ETHICS, SOCIAL RESPONSIBILITY, & CIVIC ENGAGEMENT	3
		ECO 230 PRINCIPLES OF MACROECONOMICS Prereqs: MAT 117, 120, 140 or 150; or Math ACT 23	3
WORLD'S HISTORICAL, LITERARY, & PHILOSOPHICAL TRADITIONS			
		CIV 201 WORLD CIVILIZATION & CULTURES I OR CIV 202 WORLD CIVILIZATIONS & CULTURES II	3
		HUM 211 WESTERN HUMANITIES TRADITION	3
UNIVERSITY STUDIES ELECTIVES			
		MAT 230 TECHNICAL MATH II Prereq: MAT 130 OR MAT 250 CALCULUS & ANALYTIC GEOMETRY I Prereq: ACT 26, MAT 150 or MAT 140 and 145	5
		PHY 132/133 GENERAL PHYSICS II/LAB Prereq: PHY 130/131 OR PHY 255/256 ELECTRICITY, MAGNETISM, & LIGHT/LAB Prereqs: PHY 235/236; Coreq MAT 308	4 - 5
SEM	GRADE	CORE CLASSES, 62 HRS	HRS
		CET 298 STRENGTH OF MATERIALS Prereq: ENT 287 & MAT 230	3
		EMT 201 ENGINEERING TECHNOLOGY SIMULATION (S) Prereq: MAT 130 or MAT 150	3
		EMT 202 ENGINEERING TECHNOLOGY ANALYSIS (F) Prereq: EMT 201, MAT 230 (or MAT 250) PHY 130/131 (or PHY 235/236)	3
		EMT 261 INTRO TO FLUID POWER SYSTEMS (F) Prereq: MAT 130 (or MAT 150), PHY 130/131 (or PHY 235/236), coreq EMT 262	3
		EMT 262 INTRO TO FLUID POWER SYSTEMS LAB (F) Prereq: MAT 130 (or MAT 150), PHY 130/131 (or PHY 235/236); coreq EMT 261	1
		EMT 310 PROGRAMMABLE LOGIC CONTROLLERS (S) Prereq: EMT 201, TSM 210 and TSM 241	4
		EMT 312 INDUSTRIAL INSTRUMENTATION (F) Prereqs: EMT 310 and MAT 230 (or MAT 250)	4
		EMT 355 ELECTRICAL MACHINERY AND CONTROLS (S) Prereq: ENT 351, TSM 210	4
		EMT 455 MANUFACTURING CONTROL SYSTEMS (S) Prereqs: EMT 310 & TSM 241	4
		EMT 461 INTRO TO MOTION CONTROLS (S) Prereqs: EMT 261, 262, 312, ENT 365	4
		ENT 287 STATICS FOR TECHNOLOGY Prereqs: MAT 130 (MAT 150) & PHY 130/131 (PHY 235/236)	3
		ENT 351 INDUSTRIAL AND COMMERCIAL POWER DISTRIBUTION (F) Prereq: TSM 110	3
		ENT 358 MECHANICAL AND ELECTRICAL SYSTEMS (S) Prereq: PHY 132/133 (or PHY 255/256)	3
		ENT 365 DYNAMICS FOR TECHNOLOGY (S) Prereq: EMT 202, EMT 261/262, ENT 287, TSM 210, Co-req: MAT 330 (or MAT 308)	3
		ENT 393 ENGINEERING ECONOMY Prereq: to MAT 230	3
		TSM110 ELECTRICAL SYSTEMS I (S – Sophomore year) Prereqs: MAT 130 or 150 and PHY 132/133	4
		TSM 210 ELECTRICAL SYSTEMS II (F) Prereq: TSM 110, PHY 132/133 (or PHY 255/256)	4
		TSM 232 OPERATING SYSTEMS Prereq: TSM 133 (EMT majors must receive permission to take TSM 232)	3
		TSM 241 NETWORK FUNDAMENTALS Prereq: TSM 232	3
SUPPORT COURSES, 17 HRS			
		ENG 324 TECHNICAL WRITING Prereq: ENG 105	3
		ENT 099 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	6

TOTAL CURRICULUM REQUIREMENTS 120 - 124 HOURS

Dated: April 2013