

Engineering Technology - MECHATRONICS Concentration

Bachelor of Science

NAME:

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	Grade	Semester	Minimum Grade of D Required:	Grade	Semester	Minimum Grade of C required:	
ENGLISH (12 hrs)			ENGL 101 Freshman Composition (3 hrs)			OSHE 111 Introduction to OSHE (3 hrs)	ENGINEERING TECHNOLOGY (31 hrs)
			ENGL 102 Critical Reading and Writing (3 hrs)			IT 407 Six Sigma Industrial Quality (3 hrs)	
			ENGL 230, 231 <u>or</u> 232 (3 hrs)			ET 100 Introduction to Engineering Technology (3 hrs)	
			ENGL 322 Intro to Prof and Technical Writing (3 hrs)			ET 111 Engineering Graphics (3 hrs)	
NATURAL SCIENCE (15 hrs)			Biology - GBIO 151 (3 hrs)			ET 202 Computer Applications (3 hrs)	
			Biology - BIOL 152 (1 hr)			ET 213 Electrical Circuits (3 hrs)	
			Chemistry - CHEM 121 Lecture (3 hrs)			ET 241 Introduction to Engineering Materials (3 hrs)	
			Physics - PHYS 191 Lecture (3 hrs)			ET 490 Seminar (1 hr)	
			Physics - PLAB 193 Lab (1 hr)			ET 492 Project Management (3 hrs)	
			Physics - PHYS 192 Lecture (3 hrs)			ET 493 Senior Design I (3 hrs)	
			Physics - PLAB 194 Lab (1 hr)			ET 494 Senior Design II (3 hrs)	
GENERAL EDUCATION (17 hrs)			ART, DNCE, MUS, <u>or</u> THEA (3 hrs)			ET 205 Mathematical Methods for Engineering (3 hrs)	MECHATRONICS CONCENTRATION (36 hrs)
			HIST 101, 102, 201, <u>or</u> 202 (3 hrs)			ET 212 Introduction to Programming (3 hrs)	
			COMM 211 Introduction to Public Speaking (3 hrs)			ET 215 Computer Logic and Organization (3 hrs)	
			ECON 201 or ECON 202 (3 hrs)			ET 221 Programming for Technologists (3 hrs)	
			ANTH, ECON, POLI SCI, PSYC, <u>or</u> SOC (3 hrs)			ET 225 Electronics I (3 hrs)	
			SE 101 or Free Elective (2 hrs) not required of transfer or re-admitted students with 30 hours or more.			ET 320 Microprocessors and Interfacing (3 hrs)	
MATH (10 hrs)	Grade	Semester	Minimum Grade of C Required:			ET 322 Programmable Logic Controllers (3 hrs)	
			MATH 175 Precalculus with Trigonometry (5 hrs)			ET 325 Digital Electronics (3 hrs)	
			MATH 200 Calculus I (5 hrs)			ET 421 Industrial Electrical Machinery (3 hrs)	
¹ Technical Electives can be chosen from: CMPS 280 Algorithm Design & Implementation II ET 362 Solar and Geothermal Systems ET 365 Power Electronics ET 371 Engineering Dynamics ET 376 Applied Fluid Mechanics ET 381 Strength of Materials ET 385 Mechanical Design ET 400 Internship						ET 422 Mechatronics Systems (3 hrs)	
						ET 425 Control and Automation (3 hrs)	
						ET 488 Robotics and Automation (3 hrs)	
						¹ Technical Elective (3 hrs)	
Tech Elec (3 hrs)							