

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