

Note: When viewing on-line, click any underlined course prefix to display current course descriptions (may not be available in some browsers).

## ELECTRO-MECHANICAL SYSTEMS TECHNOLOGY COLLEGE OF TECHNOLOGY

**2007-2008**

**B.S. In Technology**

Courses Required For Major		Other Required Courses		BG Perspective Core Courses*	
Cooperative Education	12 HRS	University	38-39 HRS	Natural Sciences #	24 HRS
<b>TECH 289 Co-op</b>	<b>4</b>	<b>CS 101</b>	<b>3</b>		
TECH 389 Co-op	4	<b>ENG 112</b>	<b>3</b>		3
TECH 489 Co-op	4	ENG 388	3		3
		IPC 102	3		
Concentration	57 HRS	<b>MATH 128</b>	<b>5</b>	Humanities & Arts #	
CONS 442 Scheduling	3	MATH 131 or	5		3
<b>ENGT 110 Computer Aided Desn</b>	<b>3</b>	MATH 134 & 135	6		3
ENGT 215 Desn & Eng Graphic II	3	<b>PHYS 201**</b>	<b>5</b>		
ENGT 240 Stat/Strength of Mat	3	PHYS 202**	5	Social & Behavioral Sciences #	
<b>ECT 240 Electric Circuits</b>	<b>3</b>	STAT 200	3		3
ECT 241 Electronic Circuits	3	TECH 302**	3		3
ECT 249 Dig Elec Comp & Sys	3				
ECT 300 Electrical Machinery	3	<u>Business &amp; Management</u>	<u>6 HRS</u>	Cultural Diversity in U.S. #	
ECT 310 Prog Logic Controllers	3	ECON 200**	3		3
ECT 453 Dig Comp Proc Cntl	3	Electives+	3		
<b>ENGT 100 Intro to Mfg</b>	<b>3</b>			Core Elective #	
ENGT 220 Met Mtl's & Proc	3				3
QS 360 Data-based Qlty Impr I	3	+These must be in the management/business area.		* One selected course must have an international perspective as designated in the approved courses.	
or					
QS 365 Process & Prod Doc III	3	** These courses may be used to meet BG Perspective requirements, but hours are counted only once.		# See undergraduate catalog, <a href="http://www.bgsu.edu/catalog">www.bgsu.edu/catalog</a>	
MFG 400 Mat's Prop & Heat Treat	3			<u>Summary</u>	
TECH 223 Mech Power Trans	3			Major	69 HRS
ENGT 230 Fluid Power	3			Other required courses	44-45 HRS
TECH 480 Dynamics	3			BG Perspective Core	24 HRS
TECH 480 Thermodynamics	3			Total Minimum Program Hours	125 HRS
MFG 490 Probs in Mfg Tech	3	Matriculation courses are shown in <b>BOLD PRINT and must be completed with a grade of C or better.</b>		Penalty Hours	___ HRS

Please note: Due to the cooperative education requirement, in order to complete this program in four years, it is necessary for the student to either enroll in co-op hours or course-work during the summer as well as during the academic year. If a student is not able to do so, this program will take five years to complete.