

DRAFT

**ELECTRO-MECHANICAL SYSTEMS TECHNOLOGY
COLLEGE OF TECHNOLOGY**

2010-2011

B.S. In Technology

Courses Required For Major		Other Required Courses			
Cooperative Education	12 HRS	University	38-39 HRS	BG Perspective Core Courses*	24 HRS
TECH 2890 Co-op	4	CS 1010	3	Natural Sciences #	
TECH 3890 Co-op	4	GSW 1120	3		3
TECH 4890 Co-op	4	ENG 3880	3		3
		COMM 1020	3		
Concentration	57 HRS	MATH 1280	5	Humanities & Arts #	
CONS 4420 Scheduling	3	MATH 1310 or	5		3
ENGT 1100 Computer Aided Desn	3	MATH 1340 & 1350	6		3
ENGT 2150 Desn & Eng Graphic II	3	PHYS 2010**	5		
ENGT 2400 Stat/Strength of Mat	3	PHYS 2020**	5	Social & Behavioral Sciences #	
ECT 2400 Electric Circuits	3	STAT 2000	3		3
ECT 2410 Electronic Circuits	3	TECH 3020**	3		3
ECT 2490 Dig Elec Comp & Sys	3				
ECT 3000 Electrical Machinery	3	<u>Business & Management</u>	<u>6 HRS</u>	Cultural Diversity in U.S. #	
ECT 3100 Prog Logic Controllers	3	ECON 2000**	3		3
ECT 4530 Dig Comp Proc Cntl	3	Electives+	3		
ENGT 1000 Intro to Mfg	3			Core Elective #	
ENGT 2200 Met Mtl's & Proc	3				3
QS 3600 Data-based Qlty Impr I	3	+These must be in the management/business area.			
or					
QS 3650 Process & Prod Doc III	3	** These courses may be used to meet BG		* One selected course must have an international perspective as designated in the approved courses.	
MFG 4000 Mat's Prop & Heat Treat	3	Perspective requirements, but hours are		# See undergraduate catalog, www.bgsu.edu/catalog	
TECH 2230 Mech Power Trans	3	counted only once.		<u>Summary</u>	
ENGT 2300 Fluid Power	3			Major	69 HRS
TECH 4800 Dynamics	3			Other required courses	44-45 HRS
TECH 4800 Thermodynamics	3			BG Perspective Core	24 HRS
MFG 4900 Probs in Mfg Tech	3	Matriculation courses are shown in BOLD PRINT and must be completed with a grade of C or better.		Total Minimum Program Hours	125 HRS
				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.