

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

2012-2013

B.S. In Technology

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

* One selected course must have an international perspective as designated in the approved courses.

See undergraduate catalog, www.bgsu.edu/catalog

<u>Summary</u>	
Major	69 HRS
Other required courses	44-45 HRS
BG Perspective Core	24 HRS
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.