

**ELECTRO-MECHANICAL SYSTEMS TECHNOLOGY
COLLEGE OF TECHNOLOGY, ARCHITECTURE and APPLIED ENGINEERING**

Fall 2014

B.S. In Technology

Courses Required For Major		Other Required Courses		BG Perspective Core Courses*	
Cooperative Education	12 HRS	University	35-36 HRS	GSW 1120	30 HRS
TECH 2890 Co-op	4	CS 1010	3		3
TECH 3890 Co-op	4	ENG 3880	3		
TECH 4890 Co-op	4	COMM 1020	3	Natural Sciences #	
Concentration	57 HRS	MATH 1280	5		3
CONS 4420 Scheduling	3	MATH 1310 or	5		3
ENGT 1100 Computer Aided Desn	3	MATH 1340 & 1350	6		
ENGT 2150 Desn & Eng Graphic II	3	PHYS 2010**	5	Quantitative Literacy (Group A Rec - STAT 2000)	
ENGT 2400 Stat/Strength of Mat	3	PHYS 2020**	5		3
ECT 2400 Electronic Circuits	3	STAT 2000**	3		
ECT 2410 Electronic Circuits	3	TECH 3020 **	3	Humanities & Arts #	
ECT 2490 Dig Elec Comp & Sys	3	<u>Business & Management</u>	<u>6 HRS</u>		3
ECT 3000 Electrical Machinery	3	ECON 2000**	3		3
ECT 3100 Prog Logic Controllers	3	Electives+	3	Social & Behavioral Sciences #	
ECT 4530 Dig Comp Proc Cntl	3				3
ENGT 1020 Intro to Mfg	3	+These must be in the management/business area.			3
ENGT 2200 Met Mtl's & Proc	3	** These courses may be used to meet BG Perspective requirements, but hours are counted only once.		Cultural Diversity in U.S. #	
QS 3600 Six Sigma Systems	3	Matriculation courses are shown in BOLD PRINT and must be completed with a grade of C or better.			3
or				Core Elective #	
QS 3550 Foundations of Lean	3				3
MFG 4000 Mat's Prop & Heat Treat	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	3				

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

See undergraduate catalog, www.bgsu.edu/catalog

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 coursework 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.