

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

2006-2007

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 289 Co-op	CS 101	Natural Sciences #
4	3	3
TECH 389 Co-op	ENG 112	
4	3	3
TECH 489 Co-op	ENG 388	
4	3	3
Concentration	IPC 102	Humanities & Arts #
57 HRS	3	3
CONS 442 Scheduling	MATH 128	
3	5	3
DESN 131 Computer Aided Desn	MATH 131 <u>or</u>	
3	5	3
DESN 204 Desn & Eng Graphic II	MATH 134 & 135	
3	6	3
DESN 243 Stat/Strength of Mat	PHYS 201**	Social & Behavioral Sciences #
3	5	3
ECT 240 Electric Circuits	PHYS 202**	
3	5	3
ECT 241 Electronic Circuits	STAT 200	
3	3	3
ECT 249 Digital Elec Compon & Sys	TECH 302**	
3	3	3
ECT 300 Electrical Machinery	Business & Management	Cultural Diversity in U.S. #
3	6 HRS	3
ECT 310 Prog Logic Controllers	ECON 200**	
3	3	3
ECT 453 Digital Comp Process Cntl	Electives+	Core Elective #
3	3	3
MFG 112 Intro to Mfg		
3		
MFG 220 Met Mtl's & Proc		
3		
QS 326 Data-based Qlty Impr I	+These must be in the management/business area.	
3		
or		
QS 327 Process & Prod Doc III		
3		
MFG 400 Mat's Prop 7 Heat Treat	** These courses may be used to meet BG	
3	Perspective requirements, but hours are	
TECH 223 Mech Power Trans	counted only once.	
3		
TECH 323 Fluid Power		
3		
TECH 480 Dynamics		
3		
TECH 480 Thermodynamics		
3		
MFG 490 Capstone Project	Matriculation courses are shown in BOLD PRINT	
3		

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

See undergraduate catalog, www.bgsu.edu/catalog

Summary

Major	69 HRS
Other required courses	44 HRS
BG Perspective Core	24 HRS
Total Minimum Program Hours	125 HRS
Penalty Hours	___ HRS
Articulation Penalty	___ 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 student is not able to do so, this program will take