

BGSU Firelands

2012-2013 Electromechanical Technology

Associate of Applied Science in Electrical/Electronic Engineering Technology Degree Program

Students are responsible for adhering to all college and university requirements and policies as stated in the BGSU Undergraduate Catalog. Pre-requisites shown below are for reference only.

Student Name _____

BGSU ID _____

Student e-mail _____

Advisor: **Dr. Philip Weinsier**

e-mail: **philipw@bgsu.edu**

office: 153 North _____

Communication		Pre-Req	Cr	T
General Studies Writing GSW 1120 and COMM are required. Based on placement scores, GSW 1100 or GSW 1110 may also be required. No more than 6 hours of GSW 1100/1110/1120 count toward graduation.				
GSW 1100	Intensive Intro. to Academic Writing	placement	5	
GSW 1110	Intro. to Academic Writing	placement	3	
GSW 1120	Academic Writing	placement	3	
COMM 1020* or	Speech Communication		3	
COMM 3060	Interpersonal Communication		3	

BG Perspective Curriculum		Pre-Req	Cr	T
Choose two (2) courses from the following areas, with no more than one from each section. Select courses from the list of approved BG Perspective courses in the BGSU Undergraduate Catalog.				
	(H or HI)			
	ECON 2000* recommended (S or SI)			
	(C.)			
	PHYS 2010 *	*(N)		

Mathematics and Sciences		Pre-Req	Cr	T
MATH 1280 (or equivalent combinations) is required. Based on placement scores, MATH 90 and/or MATH 95 may also be required. MATH 90 & MATH 95 do not count toward graduation.				
MATH 90	Elementary Algebra	placement	3	
MATH 95	Intermediate Algebra	placement	3	
MATH 1210 and	College Algebra I	placement	3	
MATH 1220 and	College Algebra II (QL)	MATH 1210	3	
MATH 1290	Trigonometry	MATH 1220	2	
OR				
MATH 1200 and	College Algebra (QL)	placement	5	
MATH 1290	Trigonometry	MATH 1200	2	
OR				
MATH 1280	Precalculus Mathematics (QL)	see catalog	5	

Each student must complete a sufficient number of electives to earn a minimum of 62 semester hours. At least 15 credit hours must be BGSU courses. Please check with your advisor for appropriate course selections.

Electronics Courses			
ECT 1910	Energy, Power, Instrumentation & Control		3
ECT 2400	Electric Circuits		3
ECT 2410	Electronic Circuits	ECT 2400	3
ECT 2490	Digital Electronic Components & Systems		3

Automation & Design Core			
ECT 3100 (or 2480)	Programmable Logic Controllers	ECT 1910 or 1960	3
ECT 2470	Electrical Measurements & Instrumentation	ECT 3100	3
ECT 3000	Electric Machinery and Controls	ECT 2490	3
ENGT 1010	Design & Engineering Graphics I		3
ENGT 1100	Basic Computer-Aided Design	ENGT 1010	3
ENGT 2200	Metallic Materials & Processes		3
ENGT 2300	Fluid Power Transmission	MATH 1210/ENGT 2200	3
MFG 1260	Basic Metrology		1
QS 2650 #	Introduction to Lean Processes/Systems		3

Applications Core			
Choose three (3) courses from those listed here.			
CS 1010 *	Intro to Programming (Visual Basic)	see catalog	3
CS 2010	Intro to Object-Oriented Programming (C++)	see catalog	3
CS 2170	Computer Organization	CS 2010	3
CST 1810	Network and Internet Principles	see catalog	3
CST 2750	Microcomputer Systems		3
MIS 2000	Intro to Management Information Systems		3
ENVT 2700	Occupational Safety & Hygiene		3
ENG 3880 *	Technical Writing	Jr. standing	3
TECH 3020 *	Technology Systems in Societies	Jr. standing	3
STAT 2000 * #	Applied Statistics		3
QS 3600 * #	Six Sigma Systems	Stat 2000 & QS 2650	3

Students wishing to obtain industrial green-belt certification must complete each of these three courses and receive a grade of B or better in each course.

* Students planning to pursue a B.S. degree in Electromechanical Systems Technology must take these courses.

Associate of Applied Science in Electrical/Electronic Engineering Technology
 with a major in Electromechanical Technology
Program Planner for Technical Courses

	<i>Year One</i>	<i>Year Two</i>	<i>Year Three</i>	<i>Year Four</i>
FALL → ECT 1910 ECT 2410 ECT 2490 ECT 3100 MFG 1260				
SPRING → ECT 1910 ECT 2400 ECT 3000 ECT 2470 ENGT 2300				
SUMMER →	COMM 1020			

ECT Course Flow Chart

F	S	F	S
1910	→ (1910)	→ 3100	→ 3000
	2490	→ 2410	→ 2470

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