Indiana State University — More. From day one.

BS in Automat & Control Engineering
Courses and Activities Mapped to BS in Automat&Control Engineer Tech Outcome Set

Program Objective A: Mastery of knowledge and tools — an appropriate mastery of the knowledge, techniques, skills, and modern tools

Program Objective B: Apply technical knowledge — an ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering, and technology

Program Objective C: Experiment and apply results — an ability to conduct, analyze and interpret experiments, and apply experimental results to improve processes

Program Objective D: creativity in design and application — an ability to apply creativity in the design of systems, components, or processes appropriate to the MET program educational objectives

Program Objective E: Function in team environment — an ability to function effectively on teams

Program Objective F: Effective problem solving — an ability to identify, analyze and solve technical problems

Program Objective G: Effective communication — an ability to communicate effectively through engineering drawings, written reports, or oral presentations

Program Objective H: Embrace learning — a recognition of the need for, and an ability to engage in lifelong learning

Program Objective I: Professional responsibilities — an ability to understand professional, ethical and social responsibilities

Program Objective J: Diversity and contemporary issues — a respect for diversity and a knowledge of contemporary professional, societal and global issues

Program Objective K: Quality and continuous improvement — a commitment to quality, timeliness, and continuous improvement

Legend: I = Introduced, P = Practiced, R = Reinforced

Courses and Learning Activities

Course	A.1	A.2	A.3	A.4	A.5	A.6	B.1	B.2	B.3	C.1	C.2	C.3	D.1	D.2	D.3	E.1	E.2	E.3	F.1	F.2	F.3	G.1	G.2	G.3	H.1	I.1	I.2	I.3	J.1	J.2	J.3	K.1	K.2	K.3
MET 103	I		I				I																											
MET 203	I		P				I	I					I																					
MET 299	P		P				P		I				P																			I	I	I
MET 329				I						R						I	I	I	P													P	P	P
MFG 225				I																												I	I	I
MFG 370				P						R						R	R	R	P													P	P	P
MFG 371				P						R						R	R	R	P													P	P	P
ECT 165		I					I	I	I	R	I		I			I	I	I	I	I			I	P										
ECT 167		I					I	I	I	I	I		I			I	I	I	P	I			I	P										
ECT 170															I						I							I						
ECT 231		P					P	P	P										P															
ECT 232								P						P		P	P	P	P	P														
ECT 281	R		I			I				I	I	I	P									I							I					
ECT 381	R		R	R	R	P				R	R	R	R	R	R	R	R		R	P	P	P							P			I	I	I
ECT 406	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R						R			R			R	R	R
ECT 437			R			I										P	P	P	P	P						R			P			I	I	I
ECT 444	R							R	R												P								P			P	P	P
TMGT 478						R										R	R	R	R			R	R							P		I	I	I
TMGT 492																								R						P		P	P	P
Physical Sci 8 hours			I				I												I															
Phy Sci labs 2 hours										I						I	I	I																
Math 115																			I															
MATH 301			I																I															
CS 256										I											I													
For. Language 6 hours																						I		I					I					
COM 101																						I												
ENG 101																						I	I											
ENG 105																						I	I											
ENG 107																						I	I											
ENG 305T																						P	P											
FS courses																												I						

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Last Modified: 04/19/2012 02:09:54 PM CST

Indiana State University » College of Technology » Dept of Electronics Computer Engineering Technology
BS in Automat&Control Engineer Tech

Indiana State
University
More. From day one.

Automation & Control Eng Technology
Courses and Activities Mapped to BS in Automative &Control Engineer Tech Outcome Set

	OBJ 5: Mastery of skills and competencies Mastery of skills and competencies																	
	Outcome 5.1: Technical Drawings Students will have an ability to read, interpret, and edit technical drawings.	**Outcome 5.2: Knowledge of principles** Students will have knowledge of the principles of industrial health and safety.	**Outcome 5.3: Apply theory** Students will apply theory through practical experience in industrial settings.	**Outcome 5.4: Automotive Engine Systems** Students will have knowledge of automotive engine systems and design considerations.	**Outcome 5.5: Understanding of service facilities** Students will have an understanding of service facilities management and organization.	**Outcome 5.6: Ability to apply current knowledge** Students will have an ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering, and technology.	**Outcome 5.7: Improve processes** Students will have an ability to conduct, analyze and interpret experiments, and apply experimental results to improve processes.	**Outcome 5.8: Apply creativity** Students will have an ability to apply creativity in the design of automotive systems, components, or processes.	**Outcome 5.9: Function effectively on teams** Students will have an ability to function effectively on teams.	**Outcome 5.10: Automotive related problems** Students will have an ability to identify, analyze and solve technical automotive related problems.	**Outcome 5.11: Communicate effectively** Students will have an ability to communicate effectively.	**Outcome 5.12: Technical reports** Students will have the ability to plan, organize, prepare, and deliver effective automotive technical reports in written, oral, and other formats.	**Outcome 5.13: Lifelong learning** Students will have a recognition of the need for, and an ability to engage in lifelong learning.	**Outcome 5.14: Automotive literature** Students will have an ability to utilize appropriate automotive literature and use it as a principal means of staying current in the automotive industry.	**Outcome 5.15: Social responsibilities** Students will have an ability to understand professional, ethical and social responsibilities.	**Outcome 5.15: Social responsibilities** Students will have an ability to understand professional, ethical and social responsibilities.	**Outcome 5.16: Respect for diversity** Students will have a respect for diversity and a knowledge of contemporary professional, societal and global issues.	**Outcome 5.17: Commitment to improvement** Students will have a commitment to quality, timeliness, and continuous improvement.
Courses and Learning Activities																		
ECT 281 .	I																	
ECT 381 .	P																	
ECT 406 .	R																	
ECT 437 .	R																	
ECT 444 .	P																	

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Last Modified: 04/19/2012 01:13:31 PM CST