Classes Automation & Electrical Technology (AAS Degree)

COURSE NO	COURSE TITLE	CR	PREREQUISITE OR COREQ
FIRST SEMESTER REQUIRED COURSES			
AET 1050	Electrical Math I	3	
MECH 1010	Introduction to Mechatronics	3	
MECH 1200	Electronics in Automation Design	3	
MECH 1205	Electronics in Automation Design Lab	2	
EGDT 1040 or 1071	Computer Aided Drafting (AutoCAD / Solid works)	3	
ENGL 1010 or ENGH 1005		3	
	SEMESTER TOTAL	17 CREDIT HOURS	
SECOND SEMESTER REQUIRED COURSES			
AET 1280	Electric Motor Control	4	MECH 1200/1205
AET 1285	DC & AC Machines LAB	4	MECH 1200/1205
AET 1250	Industrial Applications of the NEC (1st Block Class)	2	MECH 1200/1205
AET 1060	Electrical Math II	3	AET 1050
Humanities or Fine Arts	Refer to Wolverine Track	3	
	SEMESTER TOTAL	16 CREDIT HOURS	
THIRD SEMESTER REQUIRED COURSES			
MECH 2500	Introduction to PLCs	2	AET 1280, 1285, 1250
MECH 2505	Introduction to PLCs Lab	2	AET 1280, 1285, 1250
AET 2110	Industrial Electronics I	4	AET 1280, 1285, 1250
AET 2115	Industrial Electronics I Lab	2	AET 1280, 1285, 1250
Biology/Physical Science	Refer to Wolverine Track	3	
Elective: 2 credits	Any class 1000-level or higher	2	
	SEMESTER TOTAL	15 CREDIT HOURS	
FOURTH SEMESTER: REQUIRED COURSES			
AET 2270	Industrial PACs	2	AET 2250, 2255, 2110, 2115
AET 2275	Industrial PACs Lab	1	AET 2250, 2255, 2110, 2115
AET 2280	Process Control Instrumentation	2	AET 2250, 2255, 2110, 2115
AET 2285	Process Control Instrumentation Lab	1	AET 2250, 2255, 2110, 2115
AET 2160	Industrial Electronics II	2	AET 2250, 2255, 2110, 2115
AET 2165	Industrial Electronics II Lab	1	AET 2250, 2255, 2110, 2115
Electives: Choose 3 Credits from the Following Courses			
AET 2810R	Internship (Fall and Spring)	3	AET 2250, 2255, 2110, 2115
AET 2900	Capstone (Spring Only)	3	AET 2250, 2255, 2110, 2115
MECH 2300	Microcontroller Architecture & Programming (Spring Only)	3	AET 2250, 2255, 2110, 2115
MECH 2305	Microcontroller Architecture & Programming Lab (Spring Only)	2	AET 2250, 2255, 2110, 2115
Social/Behavioral Science Course	Refer to Wolverine Track	3	
60 Credit Milestone Justification: This is an IMPORTANT milestone that is currently existing (with a few minor modifications). It is the existing EART program and has proven itself over time to our local companies. Graduates get hired in many types of maintenance and technology related positions all over Utah and the country.			
	SEMESTER TOTAL	15 CREDIT HOURS	

CREDITS REQUIRED FOR ASSOCIATE IN APPLIED SCIENCE DEGREE	63 CREDIT HOURS