

PROGRAM ARTICULATION DEGREE PLAN					
Prairie State College 2018-2019			Southern Illinois University Carbondale		
AAS Industrial Electrician - 61 hrs			BS Industrial Management and Applied Engineering (IMAE) - 120 hrs		
			UNIVERSITY CORE CURRICULUM (UCC) CAPSTONE OPTION - 30 hrs		
		Hrs			Hrs
			UNIV 101	Saluki Success	NA
ENG 101	Composition I	3	ENGL 101	English Composition I	T
			ENGL 102	English Composition II	NA
COMM 101	Principles of Communication	3	CMST 101	Intro to Oral Communication	T
MATH 151	College Algebra (Program Requirement)	4	MATH 108 (Required for BS degree)	College Algebra	T
IAI SOCIAL SCIENCE	(See SIUC Equivalency Guide)	3	SOCIAL SCIENCE		T
			SOCIAL SCIENCE		3
IAI HUMANITIES/FINE ARTS	(See SIUC Equivalency Guide)	3	HUMANITIES		T
			HUMANITIES		NA
PHYSI 120	College Physics I	4	PHYS 203A/253A (Required for BS degree)	College Physics w/ Lab	T
			LIFE SCIENCE, GRP II		3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		20			12
Program Requirements			Program Requirements		
COL 101	First Year Seminar	1	The AAS in Industrial Electrician as articulated fulfills the program technical elective requirements		
COL 102	Career Development Seminar	1	for the BS in Industrial Management and Applied Engineering (IMAE).		
ELEC 101	Fundamentals of Electricity	3			
ELEC 102	AC, Polyphase Circuits & Transformers	3			
ELEC 110	Electronic Principles	3			
ELEC 120	DC and AC Motors and Generators	3			
ELEC 121	Electrical Controls for Machines	3			
ELEC 130	Electrical Wiring	3			
ELEC 132	Print Reading for Electricians	2			
ELEC 140	Industrial and Electrical Safety	2			
ELEC 141	National Electrical Code	2			
ELEC 210	Industrial Electronics	3			
ELEC 212	Programmable Logic Controllers	3			
ELEC 298	Electrical Seminar	1			
ELEC 299	Electrical Internship	2			
PHYSI 130	College Physics II	4	PHYS 203B/253B (Required for BS degree)	College Physics w/ Lab	T
Electives	Choose at least 2 hours from: ELEC 122, 131, 142, 201, 211, 213, 220, 221, 290	2			
		41			
			IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 208	Fundamentals of Manufacturing Processes	3
			IMAE 305	Industrial Safety	3
			IMAE 307	Applied Calculus for Technology	3
			IMAE 340 -or- PSYC 323*	Introduction to Supervision -or- Organizational Psychology	3
			IMAE 376	Supply Chain Operations & Logistics	3
			IMAE 390	Cost Estimating	3
			IMAE 392	Facilities Planning & Workplace Design	3
			IMAE 442	Fundamentals of Leadership	3
			IMAE 445	Computer-Aided Manufacturing	3
			IMAE 450	Project Management	3
			IMAE 465	Lean Manufacturing	3
			IMAE 470A	Six Sigma Green Belt I	3
			IMAE 470B	Six Sigma Green Belt II	3
			IMAE 476	Supply Chain Design & Strategy	3
			IMAE Electives	300/400 level (Required to meet 42 hr requirement)	3
					48
Total semester hrs completed w/ AAS degree		61	Total semester hrs completed w/ BS degree		60
			Total hours to BS degree:		121
*PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite					