

PROGRAM ARTICULATION DEGREE PLAN					
Elgin Community College 2022-2023				Southern Illinois University Carbondale	
AAS Energy Management - 71.5 hrs				BS Industrial Management and Applied Engineering (IMAE) - 120 hrs	
				University Core Curriculum (UCC) Capstone Option - 30 hrs	
			Hrs		Hrs
				UNIV 101	Saluki Success
				CMST 101	
ENG 101	English Composition I	3		ENGL 101	English Composition I
ENG 102	English Composition II	3		ENGL 102	English Composition II
IMT 107, MTH 107, or MTH 112*	Technical Mathematics I, or College Algebra	4		MATH 108 (Required for BS degree)	College Algebra
SOCIAL/BEHAVIORAL SCIENCE	(See SIUC Equivalency Guide)	3		SOCIAL SCIENCE	
				SOCIAL SCIENCE	
HUMANITIES/FINE ARTS**	(See SIUC Equivalency Guide)	3		HUMANITIES	
				HUMANITIES	
				PHYS 203/253A (Required for BS degree)	College Physics/Lab
				LIFE SCIENCE	
				FINE ARTS	
				HUMAN HEALTH	
				MULTICULTURAL	
*MTH 112 articulates as a UCC Math course 100 level at SIUC					
**Choose from any Liberal Education Courses			16		19
Program Requirements				Program Requirements	
CIS 110	Introduction to Computers	3		The AAS degree in Energy Management as articulated fulfills the 22 hrs of technical electives and the following course requirements for the BS degree in Industrial Management & Applied Engineering.	
ECS 108	Commercial Electronic Control System	3			
ECS 110	Codes and Standards	3			
ECS 114	IAQ for Commercial Buildings	3			
ECS 202	Commercial Load Calculations	3			
ECS 206	Commercial Duct Design	3			
ECS 215	Commercial Applications Systems	3			
HAC 101	Air Conditioning and Refrigeration I	3			
HAC 102	Air Conditioning & Refrigeration II	4			
HAC 103	Basic Heating Gas/Oil	3			
HAC 104	HVACR Controls	3			
HAC 119	Refrigerant Recovery Certification	0.5			
HAC 205	Commercial Air Conditioning	3			
IST 105	Electrical Control Circuits	3			
IST 140	Programmable Controllers I	3			
IST 142	Programmable Controllers II	3			
IST 235	AC Drives	3			
IST 245	Advanced Programmable Logic Controllers	3			
Recommended Electives	Choose from approved courses	3			
		55.5			
			PHYS 203/253B	College Physics/Lab	4
			IMAE 208	Fundamentals of Manufacturing Processes	3
			IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 305	Industrial Safety	3
			IMAE 307 -or- MATH 140	Applied Calc for Tech -or- Short Course in Calc	3
			IMAE 340 -or- PSYC 323**	Intro to Supervision -or- Organizational Psych	3
			IMAE 375	Production and Inventory Management	3
			IMAE 390	Cost Estimating	3
			IMAE 392	Facilities Planning & Workplace Design	3
			IMAE 442	Fundamentals of Leadership	3
			IMAE 445	Computer Integrated 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 Management	3
			IMAE Electives	(Must be at 300/400 level)	6
			**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite		55
Total semester hrs completed w/ AAS degree			71.5	Total semester hrs completed w/ BS degree	
Plan created by LB 11/28/2022				Total hours to BS degree:	
				145.5	