

PROGRAM ARTICULATION DEGREE PLAN								
Elgin Community College		2024-2025	Southern Illinois University Carbondale					
AAS Energy Management - 71.5 hrs			BS Industrial Management and Applied Engineering (IMAE) - 120 hrs					
		Hrs	University Core Curriculum (UCC) Capstone Option - 30 hrs		Hrs			
			UNIV 101	Saluki Success	NA			
			CMST 101	Intro: Oral Communication	3			
ENG 101	English Composition I	3	ENGL 101	English Composition I	T			
ENG 102	English Composition II	3	ENGL 102	English Composition II	T			
MTH 112	College Algebra	4	MATH 108	College Algebra	T			
	Social/Behavioral Science	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	T			
			SOCIAL SCIENCE		3			
	Humanities/Fine Arts	3	HUMANITIES	See SIUC Transfer Equivalency Guide	T			
			HUMANITIES		NA			
			PHYS 203A -and- 253A	College Physics w/Lab	4			
			LIFE SCIENCE		3			
			FINE ARTS		3			
			HUMAN HEALTH		NA			
			MULTICULTURAL		3			
		16			19			
Program Requirements			Program Requirements					
ECS 108	Commercial Electronic Control System	3	<p>The AAS degree in Energy Management as articulated fulfills the 15 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE).</p>					
ECS 110	Codes & 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 & 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	Select from list of approved courses	3						
CIS 110	Computer Concepts & Business Apps	3				CS 200B -or- ITEC 229 (elective)	Computer Concepts -or- Computing Busi Admin	T
		55.5						
			PHYS 203B -and- 253B	College Physics w/Lab	4			
			IMAE 110	Geometric Dimensioning & Tolerancing	3			
			IMAE 208	Fundamentals of Manufacturing Processes	3			
			IMAE 305	Industrial Safety	3			
			IMAE 307	Applied Calc for Tech	3			
			IMAE 340	Intro to Supervision	3			
			IMAE 375	Production & 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 Elective	300/400 level	3			
					52			
Total semester hrs completed w/AAS degree:		71.5	Total semester hrs completed w/BS degree:		71			
			Total hours to BS degree:		142.5			
<i>Degree Plan updated on 5/29/24 by SG</i>								