

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	Intro to Oral Communications
ENG 101	English Composition I	3	ENGL 101
ENG 102	English Composition II	3	ENGL 102
IMT 107, MTH 107, or MTH 112*	Technical Mathematics I, or College Algebra	4	MATHEMATICS
SOCIAL/BEHAVIORAL SCIENCE	(See SIUC Equivalency Guide)	3	SOCIAL SCIENCE
			SOCIAL SCIENCE
HUMANITIES/FINE ARTS**	(See SIUC Equivalency Guide)	3	HUMANITIES
			HUMANITIES
			PHYSICAL SCIENCE
			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	An Associate degree in Energy Management from an accredited institution meets this requirement. An approved apprenticeship or a maximum of 30 semester hours of internship, work experience credit, or independent study may be part of these 42 hours.
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	
		TRM 316	Applications of Technical Communication
		TRM 364	Work Center Management
		TRM 383	Data Applications & Interpretation
		TRM 425	Operations Management
		TRM 464	Managing For Quality
		TRM 470	Project Management
		TRM Support Courses Select 2:	TRM 332; 361; 362; 421; 426; 440
		Approved Electives	300/400 level
		TRM 319, 320, 350, 358	As necessary to meet 42 senior institution hour requirement
			42
Total semester hrs completed w/ AAS degree		71.5	Total semester hrs completed w/ BS degree:
			61
			Total to degree:
			132.5