

PROGRAM ARTICULATION DEGREE PLAN			
College of Lake County		Southern Illinois University Carbondale	
2024-2025		BS Industrial Management & Applied Engineering (IMAE) - 120 hrs	
AAS HVAC/R Engineering Technology - 61 hrs		University Core Curriculum (UCC) Capstone Option - 30 hrs	
		Hrs	Hrs
		UNIV 101	Saluki Success
CMM 121	Fundamentals of Speech	3	CMST 101
ENG 121	English Composition I	3	ENGL 101
			ENGL 102
			MATH 108
	IAI Social & Behavioral Sciences	3	SOCIAL SCIENCE
			SOCIAL SCIENCE
	IAI Humanities/Fine Arts	3	HUMANITIES
			HUMANITIES
			PHYS 203A -and- 253A
			LIFE SCIENCE
			FINE ARTS
			HUMAN HEALTH
			MULTICULTURAL
		12	19
Program Requirements		Program Requirements	
CLC 120	College Success Seminar	2	The AAS degree in HVAC/R Engineering Technology as articulated fulfills the 15 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE).
HET 110	Basic Refrigeration	4	
HET 111	HVACR Electricity I	4	
HET 119	HVACR Electricity II	4	
HET 130	Heating I Residential Appliances	4	
HET 150	Air Conditioning I Split-Systems	4	
HET 155	HVAC/R Blueprint Reading	1	
HET 172	Refrigeration II Commercial Appliances	4	
HET 190	EPA Certification	2	
HET 191	HVAC/R Load Calculation	4	
HET 230	Air Movement & Ventilation	4	
HET 231	Heating II Hydronic Heating Systems	4	
HET 251	Sheet Metal Fabrication	1	
HET 252	Air Conditioning III Installation & Service	4	
MTH 114, 115 -or- 117	Applied Mathematics I -or- II -or- Technical Mathematics I	3	
		49	
		PHYS 203B -and- 253B	College Physics w/Lab
		IMAE 110	Geometric Dimensioning & Tolerancing
		IMAE 208	Fundamentals of Manufacturing Processes
		IMAE 305	Industrial Safety
		IMAE 307	Applied Calc for Tech
		IMAE 340	Intro to Supervision
		IMAE 375	Production & Inventory Management
		IMAE 390	Cost Estimating
		IMAE 392	Facilities Planning & Workplace Design
		IMAE 442	Fundamentals of Leadership
		IMAE 445	Computer Integrated Manufacturing
		IMAE 450	Project Management
		IMAE 465	Lean Manufacturing
		IMAE 470A	Six Sigma Green Belt I
		IMAE 470B	Six Sigma Green Belt II
		IMAE 476	Supply Chain Management
		IMAE Elective	300/400 level
			52
Total semester hrs completed w/AAS degree:		61	Total semester hrs completed w/BS degree:
			71
		Total hours to BS degree:	
			132
<i>Degree Plan updated on 5/24/24 by SG</i>			