

PROGRAM ARTICULATION DEGREE PLAN								
Southwestern Illinois College 2024-2025			Southern Illinois University Carbondale					
AAS Heating, Ventilation, Air Conditioning & Refrigeration- 72 hours			BS Industrial Management & Applied Engineering (IMAE) - 120 hrs					
			University Core Curriculum (UCC)	Capstone Option - 30 hrs				
			Hrs	Hrs				
			UNIV 101	Saluki Success	NA			
COMM 151	Fundamentals of Public Speaking	3	CMST 101	Intro:Oral Communication	T			
ENG 101	Rhetoric & Composition	3	ENGL 101	English Composition I	T			
			ENGL 102	English Composition II	NA			
MATH 112	College Algebra	4	MATH 108	College Algebra	T			
	Social Science	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	T			
			SOCIAL SCIENCE		3			
	Human Relations Course	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			
HES 151	Personal Health & Wellness	2	PH 101	Foundations of Human Health	T			
			MULTICULTURAL		3			
		18			16			
Program Requirements			Program Requirements					
CMT 244	Occupational Safety & Health I	3	<p>The AAS degree in Heating, Ventilation, Air Conditioning & Refrigeration as articulated fulfills the 15 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE).</p>					
HVAR 100	Fitting, Fusion, & Fabrication	4						
HVAR 101	Refrigeration & Air Conditioning Principles I	4						
HVAR 103	Basic Electrical Controls & Systems	4						
HVAR 152	Advanced Refrigeration & A.C. Principles	4						
HVAR 153	Heating Fundamentals	4						
HVAR 201	Psychrometrics & Load Calculations	4						
HVAR 202	Commercial Refrigeration I	4						
HVAR 208	Intro to HVAR Computer Applications	1.5						
HVAR 211	Distribution Panels & Elect. Building Wire	3						
HVAR 251	Commercial Refrigeration II	4						
HVAR 252	Air Conditioning & Heating Systems Design	4						
HVAR 256	Advanced Elect. Controls & Systems	4						
HVAR 258	National Electrical Code Interpretation	3						
HVAR 260	Refrigerant Transition/Recovery Certification	0.5						
HVAR 262	Air Delivery Systems Materials & Methods	1						
HVAR 263 -or- 280	Heat Pumps -or- Commercial Cooking Equipment I	2						
		54						
						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:			72	Total semester hrs completed w/BS degree:	68			
				Total hours to BS degree:	140			
Degree Plan updated on 6/6/24 by SG								