

PROGRAM ARTICULATION DEGREE PLAN					
College of Lake County 2021-2022		Southern Illinois University Carbondale			
AAS HVAC/R Engineering Technology - 63-67 hrs		BS Industrial Management and Applied Engineering (IMAE) - 120 hrs			
		University Core Curriculum (UCC) Capstone Option - 30 hrs			
		Hrs			Hrs
CLC 120	College Success Seminar	2	UNIV 101	Saluki Success	NA
CMM 121*	Fundamentals of Speech	3	CMST 101	Intro to Oral Communication	T
ENG 121	English Composition I	3	ENGL 101	English Composition I	T
			ENGL 102	English Composition II	NA
			MATH 108	College Algebra	3
ECO 110	Economics for Business and Industry	3	ECON 113	Economics of Contemporary Social Issues	T
			SOCIAL SCIENCE		3
HUM 127	Critical Thinking	3	PHIL 105	Elementary Logic	T
			HUMANITIES		NA
			PHYS 203/253A	College Physics/Lab	4
			LIFE SCIENCE, GRP II	Students take 2 physics courses	NA
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
*Recommended to complete BS degree requirement		14			16
Program Requirements		Program Requirements			
HET 110	Basic Refrigeration	4	<p>The AAS degree in HVACR/ R Engineering Technology as articulated with the recommended technical electives fulfills the 22 hrs of technical electives and the following course requirements for the BS degree in Industrial Management & Applied Engineering.</p>		
HET 111	HVACR Electricity I	4			
HET 119	HVACR Electricity II	4			
HET 130	Heating I Residential Appliances	4			
HET 150	Air Conditioning 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 and Ventilation	4			
HET 251	Sheet Metal Fabrication	1			
HET 252	A/C III Installation and Service	4			
MTH 114, 115 or 117	Applied Math I, II or Technical Math I	3			
ELECTIVES	Choose from approved technical electives	8-12			
		51-55	PHYS 203/253B	College Physics/Lab	4
			IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 208	Fundamentals of Manufacturing Processes	3
			IMAE 305	Industrial Safety	3
			IMAE 307 -or- MATH 140	Applied Calc for Tech -or- Short Course in Calc	3-4
			IMAE 340 -or- PSYC 323**	Intro to Supervision -or- Org. 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)	3
					52-53
Total semester hrs completed w/ AAS degree		65-69	Total semester hrs completed w/ BS degree		68-71
			Total hours to BS degree:		135-140
Degree plan updated by SW 3/3/2022				**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite	