

PROGRAM ARTICULATION DEGREE PLAN								
Spoon River College 2023-2024				Southern Illinois University Carbondale				
AAS Diesel and Power Systems Technology - 70 hrs				BS Industrial Management and Applied Engineering (IMAE) - 120 hrs				
				University Core Curriculum (UCC) Capstone Option - 30 hrs				
		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	
				ENGL 102	English Composition II	NA		
*MAT 125	College Algebra	3	MATH 108 (Required for BS degree)	College Algebra			T	
				IAI SOCIAL/BEHAVIORAL SCIENCE	SOCIAL SCIENCE	See SIUC Equivalency Guide		
				SOCIAL SCIENCE		3		
				HUMANITIES		3		
				HUMANITIES		NA		
				PHYS 203/253A (Required for BS degree)	College Physics/Lab	4		
				LIFE SCIENCE		3		
				FINE ARTS		3		
	IAI HEALTH	2	HUMAN HEALTH	See SIUC Equivalency Guide		T		
				MULTICULTURAL		3		
		11				22		
Program Requirements				Program Requirements				
DTT 101	Engine Systems I	3	The AAS degree in Diesel and Power Systems Technology as articulated fulfills the 15 hrs of technical electives and the following course requirements for the BS degree in Industrial Management & Applied Engineering.					
DTT 102	Engine Systems II	3						
DTT 104	Starting Circuits	3						
DTT 105	D.C. Charging and Other Circuits	3						
DTT 125	Tractor Overhaul	9						
DTT 130	Parts Department Procedures	1						
DTT 140	Harvesting Equipment	2						
DTT 145	Vehicle Air Cond. Systems Operations	2.5						
DTT 150	Dealership Management	3						
DTT 215	Supervised Coop Experience I	4						
DTT 220	Supervised Coop Experience II	4						
DTT 225	Introduction to Diesel	3						
DTT 230	Intro. To Hydraulics & Pneumatics	3						
DTT 235	Intro. To Transmissions	3						
CSC 101	Computer Applications for Business	3						
WEL 100	Introduction To Welding	2						
HS 110 or RRT 138	Safety and the Workplace OR Locomotive FRA	1-3						
Choose 2 from the following:								
DDT 240	Advanced Diesel	4						
DDT 245 -or- RT 137	Advanced Hydraulics -or- Locomotive Airbrake	3-4						
DDT 250	Advanced Transmissions	2.5						
		58.5-63		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- Organizational 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)	6		
				**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite		55-56		
Total semester hrs completed w/ AAS degree		69.5-74		Total semester hrs completed w/ BS degree		74-75		
<i>Degree plan updated by SW 7/18/2023</i>				Total hours to BS degree:		143.5-149		