PROGRAM ARTICULATION DEGREE PLAN					
Elgin Community College 2022-2023			***Southern Illinois University Carbondale***		
AAS Machine Tool Technology - 62.5 hrs			BS Industrial Management and Applied Engineering (IMAE) - 120 hrs		
			University Core Curriculum (UCC) Capstone Option - 30 hrs		
		Hrs			**Hrs**
			UNIV 101	Saluki Success	NA
			CMST 101	Intro:Oral Communication	3
ENG 101	English Composition I	3	ENGL 101	English Composition I	T
ENG 102	English Composition II	3	ENGL 102	English Composition II	T
			MATH 108	College Algebra	3
SOCIAL/BEHAVIORAL SCIENCE	(See SIUC Equivalency Guide)	3	SOCIAL SCIENCE		T
			SOCIAL SCIENCE		3
HUMANITIES/FINE ARTS*	(See SIUC Equivalency Guide)	3	HUMANITIES		T
			HUMANITIES		NA
			PHYS 203/253A (Required for BS degree)	College Physics/Lab	4
			LIFE SCIENCE		3
			FINE ARTS		3
			HUMAN HEALTH		T
			MULTICULTURAL		3
**Required Liberal Education Course*		**12**			**22**
Program Requirements			**Program Requirements**		
CAD 101	Introduction to Engineering Design	4			
IMT 103	Industrial Manufacturing Tech I	3			
IMT 107-or-MTH 107	Technical Math I-or-Technical Math I	4			
IMT 104	Industrial Manufacturing Tech II	3			
IMT 108	Industrial Manufacturing Tech III	3			
IMT 110	Introduction to CNC Programming I	4			
IMT 112	Metrology-The Study of Measurement	3	**The AAS degree in Machine Tool Technology as articulated fulfills the 22 hrs of technical electives and the following course requirements for the BS degree in Industrial Management & Applied Engineering.**		
IMT 119	Fabrication of Machine Parts	3			
IMT 203	Manufacturing Process & Design Tech	3			
IMT 204	Industrial Manufacturing Tech V	5			
IMT 208	Basic Die Theory	4			
IMT 209	Basic Mold Theory	4			
IMT 214	Jig & Fixture Theory	2			
IST 121	Fluid Power Systems	3			
WEL 101	Welding I	2.5			
		50.5			
			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
			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**
Total semester hrs completed w/ AAS degree		**62.5**	**Total semester hrs completed w/ BS degree**		**77**
Plan updated on 10/25/2022 -LB			**Total hours to BS degree:**		**139.5**