

PROGRAM ARTICULATION DEGREE PLAN			
Elgin Community College 2022-2023		Southern Illinois University Carbondale	
AAS Welding Fabrication Technology - 62-63 hrs		BS Industrial Management and Applied Engineering (IMAE) - 120 hrs	
		University Core Curriculum (UCC) Capstone Option - 30 hrs*	
		Hrs	Hrs
		UNIV 101	Saluki Success
		CMST 101	Intro:Oral Communication
ENG 101	English Composition I	3 ENGL 101	English Composition I
ENG 102	English Composition II	3 ENGL 102	English Composition II
MATHEMATICS	(See SIUC Equivalency Guide)	3 MATH 108 (Required for BS degree)	College Algebra
SOCIAL/BEHAVIORAL SCIENCE	(See SIUC Equivalency Guide)	3 SOCIAL SCIENCE	(See SIUC Equivalency Guide)
		SOCIAL SCIENCE	
HUMANITIES/FINE ARTS*	(See SIUC Equivalency Guide)	3 HUMANITIES	(See SIUC Equivalency Guide)
		HUMANITIES	
		PHYS 203/253A (Required for BS degree)	College Physics/Lab
		LIFE SCIENCE	
		FINE ARTS	
		HUMAN HEALTH	
		MULTICULTURAL	
<i>*Required Liberal Education Course</i>		15	19
Program Requirements		Program Requirements	
CAD 101 or CAD 120 or HAC 109	Intro to Engr Design/Intro to Solidworks/Basic Sheet Me	4-Mar	The AAS degree in Welding Fabrication 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 103	Industrial Manufacturing Tech I	3	
WEL 101	Welding I	2.5	
WEL 102	Welding II	4	
WEL 112	Applied Welding Theory	3	
WEL 113	Welding Power Sources and Setup	3	
WEL 208	Welding III	4	
WEL 210	Welding IV	4	
WEL 211 or WEL 212	TIG Welding Techniques or MIG Welding Techniques	4	
WEL 213	Welding Metallurgy	3	
WEL 214	Cutting Processes	2	
WEL 215	Advanced Welding Techniques	4	
WEL 222	Blueprint Reading & Fabrication	4.5	
Industrial Technology Electives		3	
		47-48	
		PHYS 203/253B	College Physics/Lab
		IMAE 208	Fundamentals of Manufacturing Processes
		IMAE 110	Geometric Dimensioning & Tolerancing
		IMAE 305	Industrial Safety
		IMAE 307 -or- MATH 140	Applied Calc for Tech -or- Short Course in Calc
		IMAE 340 -or- PSYC 323**	Intro to Supervision -or- Organizational Psych
		IMAE 375	Production and 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 Electives	(Must be at 300/400 level)
		**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite	55
Total semester hrs completed w/ AAS degree		62-63	Total semester hrs completed w/ BS degree
			74
Plan Updated on 10/25/2022-LB		Total hours to BS degree:	136-137