Elgin Community College 2022-20	22		Southorn Illinois University Carbordela		
AAS Welding Fabrication Technology		1	Southern Illinois University Carbondale	(IMAE) 120 brs	
AAS Welding Fabrication Technology	/ - 62-63 nrs		BS Industrial Management and Applied Engi		
			University Core Curriculum (UCC) Capsto	ne 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	Т
ENG 102	English Composition II	3	ENGL 102	English Composition II	Т
MATHEMATICS	(See SIUC Equivalency Guide)	3	MATH 108 (Required for BS degree)	College Algebra	Т
SOCIAL/BEHAVIORAL SCIENCE	(See SIUC Equivalency Guide)	3	SOCIAL SCIENCE	(See SIUC Equivalency Guide)	Т
			SOCIAL SCIENCE		3
HUMANITIES/FINE ARTS*	(See SIUC Equivalency Guide)	3	HUMANITIES	(See SIUC Equivalency Guide)	Т
			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		15			19
		15			13
Drawram Dawyiramanta			Breaven Benvinemente		
Program Requirements			Program Requirements		
CAD 101 or CAD 120 or HAC 109	Intro to Engr Design/Intro to Solidworks/Basic Sheet Me		-		
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 113 WEL 208	Welding III	4	The AAS degree in Welding Exprisation T	Cochoology as articulated fulfills the 22 hrs of technical	l alactivas an
		4		Fechnology as articulated fulfills the 22 hrs of technica	
WEL 208	Welding III			Fechnology as articulated fulfills the 22 hrs of technica r the BS degree in Industrial Management & Applied Er	
WEL 208 WEL 210	Welding III Welding IV TIG Welding Techniques or MIG Welding Techniques	4			
WEL 208 WEL 210 WEL 211 or WEL 212	Welding III Welding IV TIG Welding Techniques or MIG Welding Techniques Welding Metallurgy	4			
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214	Welding III Welding IV TIG Welding Techniques or MIG Welding Techniques Welding Metallurgy Cutting Processes	4 4 3 2			
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4			
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III Welding IV TIG Welding Techniques or MIG Welding Techniques Welding Metallurgy Cutting Processes	4 4 3 2 4 4.5			
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	the following course requirements for		
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5	the following course requirements for	r the BS degree in Industrial Management & Applied Er	ngineering.
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	the following course requirements for PHYS 203/253B	r the BS degree in Industrial Management & Applied Er	ngineering.
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	PHYS 203/253B IMAE 208	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes	ngineering.
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	PHYS 203/253B IMAE 208 IMAE 110	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing	A A 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	PHYS 203/253B IMAE 208 IMAE 110 IMAE 305	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety	4 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	the following course requirements for PHYS 203/253B IMAE 208 IMAE 110 IMAE 305 IMAE 307 -or- MATH 140	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc	4 3 3 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	the following course requirements for PHYS 203/253B IMAE 208 IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323**	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych	4 3 3 3 3 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	the following course requirements for PHYS 203/253B IMAE 208 IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	the following course requirements for PHYS 203/253B IMAE 208 IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323**	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych	4 3 3 3 3 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	the following course requirements for PHYS 203/253B IMAE 208 IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design	Agineering. 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	the following course requirements for PHYS 203/253B IMAE 208 IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	PHYS 203/253B IMAE 208 IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	PHYS 203/253B IMAE 208 IMAE 208 IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	the following course requirements for PHYS 203/253B IMAE 208 IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 307 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 445 IMAE 450	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management	ngineering. 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	the following course requirements for PHYS 203/253B IMAE 208 IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 445 IMAE 445 IMAE 450 IMAE 465	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing	ngineering. 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	the following course requirements for           PHYS 203/253B           IMAE 208           IMAE 110           IMAE 305           IMAE 307 -or- MATH 140           IMAE 307 -or- PSYC 323**           IMAE 390           IMAE 392           IMAE 445           IMAE 450           IMAE 470A	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I	A 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	the following course requirements for           PHYS 203/253B           IMAE 208           IMAE 110           IMAE 305           IMAE 307 - or- MATH 140           IMAE 375           IMAE 390           IMAE 442           IMAE 445           IMAE 450           IMAE 470A           IMAE 470B	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt II	ngineering. 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	the following course requirements for           PHYS 203/253B           IMAE 208           IMAE 110           IMAE 305           IMAE 307 - or- MATH 140           IMAE 340 - or- PSYC 323**           IMAE 375           IMAE 390           IMAE 442           IMAE 445           IMAE 445           IMAE 470A           IMAE 470B           IMAE 476	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Manugement Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt I Supply Chain Management	ngineering. 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	the following course requirements for PHYS 203/253B IMAE 208 IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 307 -or- PSYC 323** IMAE 375 IMAE 375 IMAE 375 IMAE 390 IMAE 392 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 470 IMAE 470 IMAE 476 IMAE Electives	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt I Supply Chain Management (Must be at 300/400 level)	ngineering. 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques	4 4 3 2 4 4.5 3	the following course requirements for PHYS 203/253B IMAE 208 IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 307 -or- PSYC 323** IMAE 375 IMAE 375 IMAE 375 IMAE 390 IMAE 392 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 470 IMAE 470 IMAE 476 IMAE Electives	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Manugement Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt I Supply Chain Management	ngineering. 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WEL 208 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222 Industrial Technology Electives	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques         Blueprint Reading & Fabrication	4 4 3 4 4 4.5 3 47-48	the following course requirements for PHYS 203/253B IMAE 208 IMAE 208 IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 307 -or- PSYC 323** IMAE 375 IMAE 375 IMAE 390 IMAE 390 IMAE 439 IMAE 445 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE 476 IMAE Electives **PSYC 323 is an option for on-campus stud	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt I Supply Chain Management (Must be at 300/400 level) Vents only & requires PSYC 102 as a prerequisite	ngineering. 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
WEL 208 WEL 210 WEL 211 or WEL 212 WEL 213 WEL 214 WEL 215 WEL 222	Welding III         Welding IV         TIG Welding Techniques or MIG Welding Techniques         Welding Metallurgy         Cutting Processes         Advanced Welding Techniques         Blueprint Reading & Fabrication	4 4 3 4 4 4.5 3 47-48	the following course requirements for PHYS 203/253B IMAE 208 IMAE 208 IMAE 305 IMAE 307 -or- MATH 140 IMAE 307 -or- PSYC 323** IMAE 375 IMAE 375 IMAE 375 IMAE 390 IMAE 392 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 470 IMAE 470 IMAE 476 IMAE Electives	r the BS degree in Industrial Management & Applied Er College Physics/Lab Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing Industrial Safety Applied Calc for Tech -or- Short Course in Calc Intro to Supervision -or- Organizational Psych Production and Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I Six Sigma Green Belt I Supply Chain Management (Must be at 300/400 level) Vents only & requires PSYC 102 as a prerequisite	ngineering. 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3