PROGRAM ARTICULATION DEGREE					
Kankakee Community College	2021-2022		Southern Illinois University Carbondale		
AAS Manufacturing Technology: Weldi	ng Specialization - 63 hrs		BS Industrial Management and Applied Engineer		
			University Core Curriculum (UCC) Capstone	Option - 30 hrs	
		Hrs			Hrs
			UNIV 101	Saluki Success	NA
ENGL 1613	English I	3	ENGL 101	English Composition I	T
			ENGL 102	English Composition II	NA
COMM 1553	Introductory Speech	3	CMST 101	Intro to Oral Communication	T
MATH 1814*	College Algebra	4	MATH 108 (Required for BS degree)	College Algebra	T
PSYC 1813	Intro to Psychology	3	PSYC 102	Intro to Psychology	T
			SOCIAL SCIENCE		3
			HUMANITIES		3
			HUMANITIES		NA
			PHYS 203/253A	College Physics/Lab	4
			LIFE SCIENCE, GRP II	Students take 2 physics courses	NA
			FINE ARTS		3
			HEALTH		NA
			MULTICULTURAL		3
*Recommended to fulfill SIUC BS degre	ee requirements	13			16
Program Requirements		_	Program Requirements		
BSNS 2423	Internship Experience	3	-		
MAFT 1112	Intro to Manufacturing and Safety	2			_
MAFT 1222	Quality and Measurement	2	_		
MAFT 1312	Intro to Manufacturing Maintenance	2			
MAFT 1323	Lean and Quality Overview	3			
	Precision Measurement	1			
MCHN 1311					
MCHN 1323	Fabrication	3			L
	Fabrication Rigging	2		gy: Welding Specialization as articulated fulfills the 22	
MCHN 1323 MCHN 1442 WELD 1114	Rigging Basic Welding	2 4		gy: Welding Specialization as articulated fulfills the 22 S degree in Industrial Management and Applied Engine	
MCHN 1323 MCHN 1442	Rigging	2			
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment	2 4 4 3			
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding	2 4 4			
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment	2 4 4 3			
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding	2 4 4 3 4 4 4			
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses	2 4 4 3 4 4 4 6			
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	technical elective requirements for the BS	S degree in Industrial Management and Applied Engine	
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses	2 4 4 3 4 4 4 6 2			
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	technical elective requirements for the BS	S degree in Industrial Management and Applied Engine Fundamentals of Manufacturing Processes	eering.
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	technical elective requirements for the BS IMAE 208 (Required for BS degree) PHYS 203B/253B	Substitution of Manufacturing Processes College Physics/Lab	T 4
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing	T 4 3
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety	T 4 3 3 3
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus	T 4 3 3 3-4
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323**	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology	T 4 3 3 3-4 3
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & Inventory Management	T 4 3 3 3 3-4 3 3 3
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & Inventory Management Cost Estimating	T 4 3 3 3-4 3 3 3 3
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	technical elective requirements for the BS IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 375 IMAE 375 IMAE 379 IMAE 390 IMAE 390 IMAE 392	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design	T 4 3 3 3 4 3 3 3 3 3 3 3 3 3 3
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	technical elective requirements for the BS IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership	T 4 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	technical elective requirements for the BS IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing	T 4 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 375 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management	T 4 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	technical elective requirements for the BS IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 375 IMAE 375 IMAE 390 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 450 IMAE 465	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing	T 4 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 465 IMAE 470A	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership Computer Integrated Manufacturing Project Management Lean Manufacturing Six Sigma Green Belt I	T 4 3 3 3-4 3 3 3 3 3 3 3 3 3 3 3 3 3
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 375 IMAE 375 IMAE 390 IMAE 390 IMAE 390 IMAE 442 IMAE 445 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470A	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & 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	T 4 3 3 3-4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	technical elective requirements for the BS IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 375 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE 470B IMAE 476	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & 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 Supply Chain Management	T 4 3 3 3-4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 375 IMAE 375 IMAE 390 IMAE 390 IMAE 390 IMAE 442 IMAE 445 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470A	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & 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	T 4 3 3 3-4 3 3 3 3 3 3 3 3 3 3 3 6
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172	2 4 4 3 4 4 4 6 2	technical elective requirements for the BS IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 375 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE 470B IMAE 476	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & 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 Supply Chain Management	T 4 3 3 3-4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172 Manufacturing Processes	2 4 4 3 4 4 4 6 2	technical elective requirements for the BS IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 375 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE 470B IMAE 476	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & 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 Supply Chain Management	T 4 3 3 3-4 3 3 3 3 3 3 3 3 3 3 6
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WAFT 1232	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172 Manufacturing Processes	2 4 4 4 4 4 6 2 2 51	IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 375 IMAE 375 IMAE 390 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450 IMAE 450 IMAE 470A IMAE 470B IMAE 470B IMAE Electives	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & 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 Supply Chain Management	T 4 3 3 3-4 3 3 3 3 3 3 3 5 52-53
MCHN 1323 MCHN 1442 WELD 1114 WELD 1124 WELD 1263 WELD 2044 WELD 2124 WELD 2224 TECHNICAL ELECTIVES WELDING ELECTIVE MAFT 1232 Total semester hrs completed w/ AA	Rigging Basic Welding Advanced Arc Welding Metallurgy and Heat Treatment Pipe Welding Tungsten Inert Gas Welding Metallic Inert Gas Welding Choose from approved Technology Electives courses Choose from WELD 2062, 2072, and 2172 Manufacturing Processes	2 4 4 4 4 4 6 2 2 51	IMAE 208 (Required for BS degree) PHYS 203B/253B IMAE 110 IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 390 IMAE 390 IMAE 390 IMAE 442 IMAE 445 IMAE 445 IMAE 446 IMAE 450 IMAE 470A IMAE 470B IMAE 476 IMAE Electives Total semester hrs completed w/ BS degree	Fundamentals of Manufacturing Processes College Physics/Lab Geometric Dimensioning and Tolerancing Industrial Safety Applied Calculus for Tech -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & 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 Supply Chain Management (Must be at 300/400 level)	T 4 3 3 3-4 3 3 3 3 3 3 3 5 52-53 68-69