PROGRAM ARTICULATION DEGREE PL					
Richland Community College	2021-2022		Southern Illinois University Carbondale		
AAS Engineering Technology - Electrical S	Systems Specialty - 69 hrs		BS Industrial Management and Applied Enginee		
			University Core Curriculum (UCC) Capstone	Option - 30 hrs	
		Hrs	, , ,	<u> </u>	Hrs
			UNIV 101	Saluki Success	NA
ENGL 101	English Composition I	3	ENGL 101	English Composition I	Т
			ENGL 102	English Composition II	NA
COMM 101	Public Speaking	3	CMST 101	Intro to Oral Communication	T
MATH 116*	College Algebra	4	MATH 108 (Required for BS degree)	College Algebra	
WATTTO	IAI SOCIAL SCIENCE	3	SOCIAL SCIENCE	(See SIUC Equivalency Guide)	
	IAI SOCIAL SCILINGL	3	SOCIAL SCIENCE	(See Side Equivalency Guide)	3
			HUMANITIES		3
			HUMANITIES		NA
PHYS 101 *Recommended to fulfill BS requirement	Intro to Physics I	4		College Physics/Lab	T
	Intro to Physics I	4	PHYS 203/253A (Required for BS degree)	College Physics/Lab	-
			LIFE SCIENCE, GRP II	Students take 2 physics courses	NA
			FINE ARTS		3
			HUMAN HEALTH		NA
		<u> </u>	MULTICULTURAL		3
		17			12
Program Requirements			Program Requirements		
ENGT 101	Motor Control Fundamentals	4			
ENGT 103	Fluid Power Fundamentals	3			
ENGT 104	CNC Fundamentals	3			
ENGT 105	Occupational Safety	3	1		
ENGT 111	Motor Control Applications	4			
	Maintenance Fundamentals	4			
ENGT 131					
ENGT 131 FNGT 210			1		
ENGT 210	PLC Fundamentals	4		gy - Electrical Systems Technology as articulated fulfills the 2	
ENGT 210 ENGT 211	PLC Fundamentals PLC Applications & Data Acquisition	4		gy - Electrical Systems Technology as articulated fulfills the 2 e BS degree in Industrial Management & Applied Engineering.	
ENGT 210 ENGT 211 ENGT 212	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems	4 3 4			
ENGT 210 ENGT 211 ENGT 212 ENGT 213	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals	4 3 4 3			
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications	4 3 4 3 3			
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems	4 3 4 3 3 3			
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes	4 3 4 3 3			
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation &	4 3 4 3 3 3 2			
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299)	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration)	4 3 4 3 3 3 2 3	technical electives required for the	e BS degree in Industrial Management & Applied Engineering.	
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3	technical electives required for the	e BS degree in Industrial Management & Applied Engineering. Fundamentals of Manufacturing Processes	Т
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299)	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration)	4 3 4 3 3 3 2 3 3 3 3	technical electives required for the	e BS degree in Industrial Management & Applied Engineering.	
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree)	E BS degree in Industrial Management & Applied Engineering. Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing	T
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B	ESS degree in Industrial Management & Applied Engineering. Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab	T T 4
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree)	E BS degree in Industrial Management & Applied Engineering. Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing	T
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B	ESS degree in Industrial Management & Applied Engineering. Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab	T T 4
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Management & Applied Engineering.	T T 4 3
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305 IMAE 307 -or- MATH 140	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -or- Short Course in Calculus	T T 4 3 3-4
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323**	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology	T T 4 3 3-4 3
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & Inventory Management	T T 4 3 3-4 3 3 3
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 390 IMAE 392	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design	T T 4 3 3-4 3 3 3 3 3 3 3
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -or- Short Course in Calculus Intro to Supervision -or- Organizational Psychology Production & Inventory Management Cost Estimating Facilities Planning & Workplace Design Fundamentals of Leadership	T T 4 3 3 4 3 3 3 3 3 3 3 3 3
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	imae 208 (Required for BS degree) imae 110 (Required for BS degree) imae 110 (Required for BS degree) Phys 203B/253B imae 307 -or- MATH 140 imae 340 -or- PSYC 323** imae 375 imae 390 imae 392 imae 442 imae 445	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -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 T 4 3 3 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 450	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -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 T 4 3 3-4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 445 IMAE 450 IMAE 465	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -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 T 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 450 IMAE 450 IMAE 470A	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -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 T 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 450 IMAE 465 IMAE 470A IMAE 470B	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -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 T 4 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 470A IMAE 470B IMAE 470B	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -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	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 450 IMAE 465 IMAE 470A IMAE 470B	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -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 T 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 470A IMAE 470B IMAE 470B	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -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 T 4 3 3-4 3 3 3 3 3 3 3 3 3 3 6
ENGT 210 ENGT 211 ENGT 211 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100 ENGT 102	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes Blueprint Reading	4 3 4 3 3 3 3 2 3 3 3 5 5 2	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 450 IMAE 465 IMAE 470A IMAE 470B IMAE 476 IMAE Electives	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -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 T 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 6 49-50
ENGT 210 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes Blueprint Reading	4 3 4 3 3 3 2 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 470A IMAE 470B IMAE 470B	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -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 T 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 6 49-50
ENGT 210 ENGT 211 ENGT 211 ENGT 212 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100 ENGT 102 Total semester hrs completed w/ AAS of	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes Blueprint Reading	4 3 4 3 3 3 3 2 3 3 3 5 5 2	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 390 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 445 IMAE 470A IMAE 470B IMAE 470B IMAE Electives Total semester hrs completed w/ BS degree	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -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 T 4 3 3-4 3 3 3 3 3 3 3 3 6 49-50
ENGT 210 ENGT 211 ENGT 211 ENGT 213 ENGT 214 ENGT 215 ENGT 232 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100 ENGT 102	PLC Fundamentals PLC Applications & Data Acquisition Motor Control Systems Robotic Fundamentals Motion Control Applications Motion Control Systems Rigging & Cranes Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes Blueprint Reading	4 3 4 3 3 3 3 2 3 3 3 5 5 2	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445 IMAE 445 IMAE 450 IMAE 465 IMAE 470A IMAE 470B IMAE 476 IMAE Electives	Fundamentals of Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety Applied Calculus for Technology -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 II Six Sigma Green Belt II Supply Chain Management (Must be at 300/400 level)	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3