Richland Community College	2021-2022		Southern Illinois University Carbondale		
AAS Engineering Technology - CNC Tech	nology Specialty - 69 hrs		BS Industrial Management and Applied Enginee	ring (IMAE) - 120 hrs	
			University Core Curriculum (UCC) Capstone	Option - 30 hrs	
		Hrs			Hrs
			UNIV 101	Saluki Success	NA
ENGL 101	English Composition I	3	ENGL 101	English Composition I	 T
	Englion composition	0	ENGL 102	English Composition II	NA
COMM 101	Public Speaking	3	CMST 101	Intro to Oral Communication	T
		4			T
MATH 116*	College Algebra IAI SOCIAL SCIENCE		MATH 108 (Required for BS degree)	College Algebra	T
	IAI SOCIAL SCIENCE	3	SOCIAL SCIENCE SOCIAL SCIENCE	(See SIUC Equivalency Guide)	
					3
			HUMANITIES		3
	lates to Diversion 1	4	HUMANITIES	Osllana Dhunias (Lab	NA
PHYS 101	Intro to Physics I	4	PHYS 203/253A (Required for BS degree)	College Physics/Lab	T
			LIFE SCIENCE, GRP II	Students take 2 physics courses	NA
			FINE ARTS		3
			HUMAN HEALTH		NA
*Recommended to fulfill BS requirement			MULTICULTURAL		3
		17			12
Program Requirements			Program Requirements		
DRAFT 103 or 236	AutoCAD, Introductory -or- Solid Modeling I	4			
ENGT 101	Motor Control Fundamentals	4			
ENGT 103	Fluid Power Fundamentals	3			
ENGT 104	CNC Fundamentals	3	1		
ENGT 105	Occupational Safety	3			
ENGT 131	Maintenance Fundamentals	4	_		
ENGT 150	Machining Fundamentals	2	-		
	Cutting and Workholding	2	The AAS degree in Engineering Technology	<ul> <li>CNC Technology as articulated fulfills the 22 hrs of technica</li> </ul>	l electives
ENGT 151	Cutting and Workholding	2		- CNC Technology as articulated fulfills the 22 hrs of technica ee in Industrial Management & Applied Engineering	l electives
ENGT 151 ENGT 160	Metrology and Quality Control	3		<ul> <li>CNC Technology as articulated fulfills the 22 hrs of technica ee in Industrial Management &amp; Applied Engineering.</li> </ul>	l electives
ENGT 151 ENGT 160 ENGT 200	Metrology and Quality Control Industrial Materials	3 3			l electives
ENGT 151 ENGT 160 ENGT 200 ENGT 213	Metrology and Quality Control Industrial Materials Robotic Fundamentals	3 3 3			l electives
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning	3 3 3 3			l electives
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling	3 3 3 3 3			l electives
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications	3 3 3 3			l electives
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252	Metrology and Quality Control         Industrial Materials         Robotic Fundamentals         CNC Turning         CNC Milling         CAM Applications         Workplace Exp. Practicum & Seminar (or Workplace Simulation &	3 3 3 3 3 3 3			l electives
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299)	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration)	3 3 3 3 3 3 3 3	required for the BS degr	ee in Industrial Management & Applied Engineering.	
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3	required for the BS degr	ee in Industrial Management & Applied Engineering.	Т
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299)	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration)	3 3 3 3 3 3 3 3 3 3 3 3	required for the BS degr	ee in Industrial Management & Applied Engineering.	
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree)	ee in Industrial Management & Applied Engineering. Manufacturing Processes Geometric Dimensioning & Tolerancing	T
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3 3 3	required for the BS degre IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B	ee in Industrial Management & Applied Engineering. Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab	T T 4
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305	ee in Industrial Management & Applied Engineering. Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety	T T 4 3
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3 3 3	required for the BS degre IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B	ee in Industrial Management & Applied Engineering. Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab	T T 4
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3 3 3	IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305	ee in Industrial Management & Applied Engineering. Manufacturing Processes Geometric Dimensioning & Tolerancing College Physics/Lab Industrial Safety	T T 4 3
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 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	ee in Industrial Management & Applied Engineering.           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 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3 3 3	required for the BS degre 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**	ee in Industrial Management & Applied Engineering. 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 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3 3 3	required for the BS degre 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	ee in Industrial Management & Applied Engineering. 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
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 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 305 IMAE 307 -or- MATH 140 IMAE 375 IMAE 375 IMAE 390	ee in Industrial Management & Applied Engineering. 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
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3 3 3	required for the BS degre IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 2038/253B IMAE 305 IMAE 305 IMAE 307 -or- MATH 140 IMAE 375 IMAE 375 IMAE 390 IMAE 390	ee in Industrial Management & Applied Engineering. 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
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3 3 3	required for the BS degre IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305 IMAE 307 - or- MATH 140 IMAE 307 - or- MATH 140 IMAE 375 IMAE 375 IMAE 390 IMAE 392 IMAE 442 IMAE 445	ee in Industrial Management & Applied Engineering. 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 3.4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 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 305 IMAE 307 -or- MATH 140 IMAE 340 -or- PSYC 323** IMAE 375 IMAE 390 IMAE 392 IMAE 445 IMAE 445	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 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3 3 3	required for the BS degre IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 2038/253B IMAE 305 IMAE 305 IMAE 307 - or- MATH 140 IMAE 340 - or- PSYC 323** IMAE 390 IMAE 390 IMAE 445 IMAE 445 IMAE 445 IMAE 450 IMAE 465	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 3 3
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3 3 3	required for the BS degree) IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 307 -or- MATH 140 IMAE 307 -or- MATH 140 IMAE 307 -or- PSYC 323** IMAE 375 IMAE 392 IMAE 440 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 470A	ee in Industrial Management & Applied Engineering. 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 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3 3 3	required for the BS degre IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305 IMAE 305 IMAE 307 -or- MATH 140 IMAE 375 IMAE 375 IMAE 375 IMAE 390 IMAE 392 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 470A IMAE 470B	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 3,4 3,3 3,3 3,3 3,3 3,3 3,3 3,3 3,3 3,3
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3 3 3	required for the BS degre 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 375 IMAE 390 IMAE 390 IMAE 442 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 470B IMAE 470B IMAE 470B	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 I         Supply Chain Management	T T 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3 3 3	required for the BS degre IMAE 208 (Required for BS degree) IMAE 110 (Required for BS degree) PHYS 203B/253B IMAE 305 IMAE 305 IMAE 307 -or- MATH 140 IMAE 375 IMAE 375 IMAE 375 IMAE 390 IMAE 392 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 470A IMAE 470B	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 34 333 33 33 33 33 33 33 33 3 3 3 3
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes	3 3 3 3 3 3 3 3 3 3 3 3	required for the BS degre 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 375 IMAE 390 IMAE 390 IMAE 442 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 470B IMAE 470B IMAE 470B	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 I         Supply Chain Management	T T 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100 ENGT 102	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes Blueprint Reading	3 3 3 3 3 3 3 3 3 3 3 3 5 2	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 442         IMAE 445         IMAE 445         IMAE 470A         IMAE 476         IMAE Electives	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 I         Supply Chain Management	T T 3-4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes Blueprint Reading	3 3 3 3 3 3 3 3 3 3 3 3	required for the BS degre 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 375 IMAE 390 IMAE 390 IMAE 442 IMAE 445 IMAE 445 IMAE 445 IMAE 445 IMAE 470B IMAE 470B IMAE 470B	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 I         Supply Chain Management	T T 34 333 33 33 33 33 33 33 33 3 3 3 3
ENGT 151 ENGT 160 ENGT 200 ENGT 213 ENGT 250 ENGT 251 ENGT 252 ENGT 290 (or ENGT 295 or ENGT 299) ENGT 100 ENGT 102	Metrology and Quality Control Industrial Materials Robotic Fundamentals CNC Turning CNC Milling CAM Applications Workplace Exp. Practicum & Seminar (or Workplace Simulation & Project or Systems Integration) Manufacturing Processes Blueprint Reading	3 3 3 3 3 3 3 3 3 3 3 3 5 2	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 442         IMAE 445         IMAE 445         IMAE 470A         IMAE 476         IMAE Electives	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 I         Supply Chain Management	T T 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3