

PROGRAM ARTICULATION DEGREE PLAN					
McHenry County College		2019-2020		Southern Illinois University Carbondale	
AAS Engineering Technology - 68 hrs				BS Industrial Management and Applied Engineering (IMAE) - 120 hrs	
				University Core Curriculum (UCC) Capstone Option - 30 hrs	
		Hrs			Hrs
ENG 151	Composition I	3	UNIV 101	Saluki Success	NA
			ENGL 101	English Composition I	T
			ENGL 102	English Composition II	NA
SPE 151	Intro to Speech	3	CMST 101	Intro to Oral Communication	T
MAT 165	College Algebra w/ Trigonometry	5	MATH 111 (Fulfills BS degree requirement)	Precalculus	T
IAI SOCIAL/BEHAVIORAL SCIENCE	(See SIUC Equivalency Guide)	3	SOCIAL SCIENCE	(See SIUC Equivalency Guide)	T
			SOCIAL SCIENCE		3
IAI HUMANITIES/FINE ARTS	(See SIUC Equivalency Guide)	3	HUMANITIES		T
			HUMANITIES		NA
			PHYS 203/253A (Required for BS degree)	College Physics/Lab	4
			LIFE SCIENCE, GRP II		3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		17			16
Program Requirements				Program Requirements	
Program Core-39				The AAS degree in Engineering Technology as articulated fulfills the 22 hrs of technical elective course requirements for the BS degree in Industrial Management & Applied Engineering (IMAE). Any unarticulated courses will satisfy general elective credit.	
AET 151	Computer Aided Design Graphics I	3	IMAE 105	Computer-Aided Drafting	T
AET Electives	Subject to department approval	6	ME 102	Computer-Aided Engineering Drawing	T
AET 152*	Computer Aided Design Graphics II	3	IMAE 1XX	IMAE Tech Elective	T
AET 171	Parametric Modeling SolidWorks I	3	IMAE 208 (Required for BS degree)	Manufacturing Processes	T
IMT 100	Intro to Manufacturing	3	IMAE 1XX	IMAE Tech Elective	T
IMT 102	Manufacturing Processes	3	IMAE 1XX	IMAE Tech Elective	T
IMT 103	Materials of Industry	3	IMAE 1XX	IMAE Tech Elective	T
IMT 104	Blueprint Reading for Manufacturing	3	IMAE 1XX	IMAE Tech Elective	T
IMT 105	Intro to Manual Machining	3	IMAE 1XX	IMAE Tech Elective	T
IMT 106	CNC Programming I	3	IMAE 1XX	IMAE Tech Elective	T
IMT 120*	Metrology for Quality	3	IMAE 1XX	IMAE Tech Elective	T
IMT 250*	Manufacturing Internship	3	IMAE 2XX	IMAE Tech Elective	T
		39			
Select from Automation, Industrial, or Mechanical Options		12			
<i>Automation Option-12</i>					
ROB 110	Intro to Robotics				
Choose 3 courses from the following:					
ROB 115	Intro to Electronics				
ROB 116	Electricity and Automation Controls				
ROB 145	Hydraulics, Pneumatics and Controls		PHYS 203B/253B	College Physics/Lab	4
ROB 150	PLC Automation Applications I		IMAE 110	Geometric Dimensioning and Tolerancing	3
ROB 151	PLC Automation Applications II		IMAE 305	Industrial Safety	3
			IMAE 307 -or- MATH 140	Applied Calculus for Technology -or- Short Course in Calculus	3
<i>Industrial Emphasis-12</i>			IMAE 340 -or- PSYC 323**	Intro to Supervision -or- Organizational Psychology	3
IMT 117	Supply Chain Management I		IMAE 376	Supply Chain Operations & Logistics	3
IMT 210	Continuous Improvement Practices		IMAE 390	Cost Estimating	3
IMT 215	Supply Chain Management II		IMAE 392	Facilities Planning & Workplace Design	3
IMT or AET Elective	Subject to department approval		IMAE 442	Fundamentals of Leadership	3
			IMAE 445	Computer Integrated Manufacturing	3
<i>Mechanical Option-12</i>			IMAE 450	Project Management	3
AET 271 -or- IMT 109	Applied Statics -or- Mechanics of Materials		IMAE 465	Lean Manufacturing	3
IMT 155	CNC Programming II		IMAE 470A	Six Sigma Green Belt I	3
AET Electives	Subject to department approval		IMAE 470B	Six Sigma Green Belt II	3
			IMAE 476	Supply Chain Design & Strategy	3
			IMAE Electives	(Must be at 300/400 level)	3
					49
Total semester hrs completed w/ AAS degree		68	Total semester hrs completed w/ BS degree		65
*Recommended to fulfill BS requirements (Student may transfer up to 78 hours of degree applicable coursework.)			Total semester hours to BS degree:		133
Degree Plan created on 7/9/19 by MH			**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite		