

PROGRAM ARTICULATION DEGREE PLAN			
<b>McHenry County College</b>	<b>2019-2020</b>		<b>Southern Illinois University Carbondale</b>
AAS Robotics Systems Engineering Technology - 60 to 61 hrs		BS Industrial Management and Applied Engineering (IMAE) - 120 hrs	
		<b>University Core Curriculum (UCC) Capstone Option - 30 hrs</b>	
		<b>Hrs</b>	<b>Hrs</b>
ENG 151	Composition I	3	UNIV 101 Saluki Success ENGL 101 English Composition I ENGL 102 English Composition II SPE 151 Intro to Speech T NA T
IAI SOCIAL/BEHAVIORAL SCIENCE	(See SIUC Equivalency Guide)	3	MATH 108 (Required for BS degree) College Algebra SOCIAL SCIENCE (See SIUC Equivalency Guide) T 3 T
IAI HUMANITIES/FINE ARTS	(See SIUC Equivalency Guide)	3	HUMANITIES HUMANITIES PHYS 203/253A (Required for BS degree) College Physics/Lab LIFE SCIENCE, GRP II FINE ARTS HUMAN HEALTH MULTICULTURAL T NA 4 3 3 NA 3
		<b>12</b>	<b>19</b>
<b>Program Requirements</b>		<b>Program Requirements</b>	
<b>Program Core-39</b>		<b>The AAS degree in Robotics Systems Engineering Technology as articulated fulfills the 22 hrs of technical elective course requirements for the BS degree in Industrial Management &amp; Applied Engineering (IMAE). Any unarticulated courses will satisfy general elective credit.</b>	
AET 151 -or- EGR 151	Computer Aided Design Graphics I -or- Engineering Graphics	3 or 4	
CDM 110	Computer Literacy for Windows	3	
MAT 107	Math for Electronics II	3	
NET 140	Linux Operating Systems	2	
ROB 110	Intro to Robotics	3	
ROB 150	PLC Automation Applications I	3	
ROB 200	Cyber-Physical Systems	3	
IMT 102	Manufacturing Processes	3	IMAE 208 (Required for BS degree) Manufacturing Processes 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
		<b>26 to 27</b>	
<b>Program Electives</b>	Choose from approved courses	<b>19</b>	
			PHYS 203B/253B College Physics/Lab 4 IMAE 110 Geometric Dimensioning and Tolerancing 3 IMAE 305 Industrial Safety 3 IMAE 307 -or- MATH 140 Applied Calculus for Technology -or- Short Course in Calculus 3 IMAE 340 -or- PSYC 323** Intro to Supervision -or- Organizational Psychology 3 IMAE 376 Supply Chain Operations & Logistics 3 IMAE 390 Cost Estimating 3 IMAE 392 Facilities Planning & Workplace Design 3 IMAE 442 Fundamentals of Leadership 3 IMAE 445 Computer Integrated Manufacturing 3 IMAE 450 Project Management 3 IMAE 465 Lean Manufacturing 3 IMAE 470A Six Sigma Green Belt I 3 IMAE 470B Six Sigma Green Belt II 3 IMAE 476 Supply Chain Design & Strategy 3 IMAE Electives (Must be at 300/400 level) 3 42
			<b>49</b>
<b>Total semester hrs completed w/ AAS degree</b>		<b>60 to 61</b>	<b>Total semester hrs completed w/ BS degree</b>
(Student may transfer up to 78 hours of degree applicable coursework.)			<b>68</b>
			<b>Total semester hours to BS degree:</b>
			<b>128 to 129</b>
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	