

PROGRAM ARTICULATION DEGREE PLAN					
<b>Terra State Community College 2021-2022</b>		<b>Southern Illinois University Carbondale</b>			
Robotics - Integrated Manufacturing (AAS) - 62 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 1050	College Composition I	3	UCOL 101	Foundations of Inquiry	NA
			ENGL 101	English Composition I	T
			ENGL 102	English Composition II	NA
SPE 2010	Effective Speaking	3	CMST 101	Intro: Oral Communication	T
MTH 2310	College Algebra	3	MATH 108	College Algebra	T
			SOCIAL SCIENCE		3
			SOCIAL SCIENCE		3
HUM 1010	Critical Thinking	3	PHIL 105	Elementary Logic	T
			HUMANITIES		NA
			LIFE SCIENCE GRP I	Students take 2 Physics courses	NA
PHY 1310/1315	General Physics/Lab	4	PHYS 203/253A (Required for BS degree)	University Physics/Lab	T
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		<b>16</b>			<b>12</b>
<b>Program Requirements</b>			<b>Program Requirements</b>		
DLS 1090	Digital Literacy and Applications	3	<p>The AAS in Robotics - Integrated Manufacturing as articulated fulfills the technical elective requirements for the BS in Industrial Management and Applied Engineering (IMAE).</p>		
EET 1050	Electricity	3			
EET 1320	AC/DC Machines	3			
EET 1500	Intro to Process Control	3			
EET 2400	Motor Controls	4			
EET 2440	Programmable Controllers	4			
GEN 1000	First Year Seminar	1			
MET 1040	Introduction to Hand and Power Tools	1			
MET 1360 -or- 2200	Pneumatics -or- Hydraulics	3			
MET 2600	Mechanical Power Transmission	3			
MFG 1020	Safety	1			
MGT 1100	Management & Organization	3			
QCT 1020	Blueprint Reading	2			
ROB 1010	Introduction to Robotics	3			
ROB 1020	Robotic Programming	3			
ROB 2040	Emerging Technologies in Robotics	3			
ROB 2050	Robotics Maintenance PM & Networking	3			
		<b>46</b>			
			MATH 140 -or- IMAE 307	Short Course in Calculus -or- Applied Calculus for Tech	3-4
			PHYS 203B/253B	College Physics/Lab	4
			PSYC 323 -or- IMAE 340*	Organizational Psychology -or- Introduction to Supervision	3
			IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 208	Fundamentals of Mfg Processes	3
			IMAE 375	Production & Inventory Mgmt	3
			IMAE 390	Cost Estimating	3
			IMAE 392	Facilities Plan/Workplace Design	3
			IMAE 442	Fundamentals of Leadership	3
			IMAE 445	Computer Integrated Mfg	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 Management	3
			IMAE Electives	300/400-level	3
					<b>49-50</b>
<b>Total semester hrs completed with AES degree:</b>		<b>62</b>	<b>Total semester hrs completed with BS degree:</b>		<b>61-62</b>
			<b>Total to BS degree:</b>		<b>123-124</b>
Degree Plan created by SW 11/22/21		*Note: PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite			