

PROGRAM ARTICULATION DEGREE PLAN					
<b>Delaware Technical and Community College</b>		<b>2019-2020</b>	<b>Southern Illinois University Carbondale</b>		
AAS Electrical and Computer Engineering Transfer Option - 77 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>
SSC 100	First Year Seminar	1	UNIV 101	Saluki Success	NA
			CMST 101	Intro to Oral Communication	3
ENG 101	Critical Thinking & Academic Writing	3	ENGL 101	English Composition I	T
ENG 102	Composition and Research	3	ENGL 102	English Composition II	T
MAT 281	Calculus I	4	MATH 150 (Fulfills BS degree requirement)	Calculus I	T
SOCIAL SCIENCE	(See SIUC Equivalency Guide)	3	SOCIAL SCIENCE	(See SIUC Equivalency Guide)	T
SOCIAL SCIENCE	(See SIUC Equivalency Guide)	3	SOCIAL SCIENCE	(See SIUC Equivalency Guide)	T
			HUMANITIES		3
			HUMANITIES		NA
PHY 281	Physics I w/ Calculus	4	PHYS 205A/255A (Fulfills BS degree requirement)	University Physics/Lab	T
			LIFE SCIENCE, GRP II		3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
		<b>21</b>			<b>15</b>
<b>Program Requirements</b>			<b>Program Requirements</b>		
CEN 100	Intro to Electrical & Computer Engineering Technology	3	<b>The AAS in Electrical and Computer Engineering Transfer Option as articulated fulfills the 22 hours of technical elective requirements for the BS in Industrial Management &amp; Applied Engineering (IMAE).</b>		
CEN 200	Intro to MATLAB	2			
CIS 211	Data Structures	4			
CSC 114	Computer Science I	4			
CSC 164	Computer Science II	4			
ELC 265	Intro to Digital Systems	3			
ELC 266	Analog Circuits I	4			
ELC 272	Electronic Circuit Analysis I	4			
ELC 275	Microprocessor Systems	4			
ELC 282	Signals and Systems	4			
MAT 292	Engineering Math I	3			
CHM 150	Chemical Principles I	5			
MAT 282	Calculus II	4			
MAT 283	Calculus III	4			
PHY 282	Physics II w/ Calculus	4			
		<b>56</b>			
			IMAE 110	Geometric Dimensioning & Tolerancing	3
			IMAE 208	Fundamentals of Manufacturing Processes	3
			IMAE 305	Industrial Safety	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)	6
					<b>48</b>
<b>Total semester hrs completed w/ AAS degree</b>		<b>77</b>	<b>Total semester hrs completed w/ BS degree</b>		<b>63</b>
<i>Degree Plan created 8/27/19 by MH</i>			<b>Total hours to BS degree:</b>		<b>140</b>
			**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite		