

PROGRAM ARTICULATION DEGREE PLAN					
<b>Delaware Technical and Community College</b>		<b>2019-2020</b>		<b>Southern Illinois University Carbondale</b>	
AAS Design Engineering Technology (Mechanical) - 68 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
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
			CMST 101	Intro to Oral Communication	3
MAT 180	College Algebra	4	MATH 108 (Required for BS degree)	College Algebra	T
SOCIAL SCIENCE	(See SIU Equivalency Guide)	3	SOCIAL SCIENCE	(See SIUC Equivalency Guide)	T
SOCIAL SCIENCE	(See SIU Equivalency Guide)	3	SOCIAL SCIENCE	(See SIUC Equivalency Guide)	T
			HUMANITIES	(See SIUC Equivalency Guide)	3
			HUMANITIES		NA
PHY 205*	General Physics	4	PHYS 203/253A (Required for BS degree)	College Physics/Lab	T
			LIFE SCIENCE, GRP II		3
			FINE ARTS		3
			HUMAN HEALTH		NA
			MULTICULTURAL		3
*Recommended to fulfill BS requirement		<b>21</b>			<b>15</b>
<b>Program Requirements</b>			<b>Program Requirements</b>		
EDD 141	Engineering Drafting & Design I	4	<b>The AAS in Design Engineering Technology (Mechanical) as articulated fulfills the 22 hours of technical elective requirements for the BS in Industrial Management &amp; Applied Engineering (IMAE)</b>		
EDD 171	Intro to CAD Using AutoCAD	3			
EDD 272	Solid Modeling	3			
EDD 273	Advanced Solid Modeling	3			
EDT 152	Engineering Design II	4			
EDT 252	Engineering Design III	4			
ELC 125	Electrical Circuits I	4			
IET 209	Survey in Production Planning & Control	3			
MET 132	Statics	3			
MET 242	Strength of Materials	3			
EDT 128	Machine Trades Blueprint Reading	3	IMAE 110 (Required for BS degree)	Geometric Dimensioning & Tolerancing	T
MAT 281*	Calculus I	4	MATH 150 (Fulfills BS degree requirement)	Calculus I	T
MET 123	Modern Manufacturing Techniques	3	IMAE 208 (Required for BS degree)	Fundamentals of Manufacturing Processes	T
MET 125	Advanced Manufacturing Techniques	3			
*Recommended to fulfill BS requirement		<b>47</b>	PHYS 203/253B	College Physics/Lab	4
			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>46</b>
<b>Total semester hrs completed w/ AAS degree</b>		<b>68</b>	<b>Total semester hrs completed w/ BS degree</b>		<b>61</b>
<i>Degree Plan created on 8/9/19 by MH</i>			<b>Total hours to BS degree</b>		<b>129</b>
**PSYC 323 is an option for on-campus students only & requires PSYC 102 as a prerequisite					