

PROGRAM ARTICULATION DEGREE PLAN					
<b>Harper College</b>		<b>2021-2022</b>		<b>Southern Illinois University Carbondale</b>	
Associate of Engineering Science (A.E.S.) - 62 hours				BS Mechanical Engineering (ME) - 126 hrs	
				<b>University Core Curriculum (UCC)*</b>	
		<b>Hrs</b>			<b>Hrs</b>
			UNIV 101	Saluki Success	NA
ENG 101	Composition	3	ENGL 101	English Composition I	T
ENG 102	Composition	3	ENGL 102	English Composition II	T
			CMST 101	Intro to Oral Communication	3
MTH 200	Calculus I	5	MATH 150 (Required for BS degree)	Calculus I	T
ECO 211	Microeconomics	3	ECON 240 (Required for BS degree)	Intro to Microeconomics	T
			SOCIAL SCIENCE		3
HUM 107	The Cultures of Africa	3	HUMANITIES	Humanities UCC Sub 100-level	T
			HUMANITIES		NA
CHM 121	General Chemistry I	5	CHEM 200/201 (Required for BS degree)	Intro to Chemical Principles/Lab	T
PHY 201	General Physics I: Mechanics	5	LIFE SCIENCE, GRP II	(Students take 2 Physics courses)	T
			FINE ARTS		3
			BIOL 202	Human Genetics and Human Health	NA
			MULTICULTURAL		3
		<b>27</b>			<b>12</b>
<b>Program Requirements</b>			<b>Program Requirements</b>		
CHM 122	General Chemistry II	5	CHEM 210/211	General and Inorganic Chemistry/Lab	T
CSC 121	Computer Science I	4	CS 202	Intro to Computer Science	T
EGR 120	Engineering Graphics I (CAD)	4	ME 102	Computer-Aided Engineering Drawing	T
EGR 210	Analytical Mechanics: Statics	3	ENGR 250	Statics	T
EGR 211	Engineering Dynamics	3	ENGR 261	Dynamics	T
MTH 201	Calculus II	5	MATH 250	Calculus II	T
MTH 202	Calculus III	5	MATH 251	Calculus III	T
MTH 212	Differential Equations	3	MATH 305	Intro to Differential Equations	T
PHY 202	General Physics II	4	PHYS 205/255B	University Physics/Lab	T
		<b>36</b>			
			ENGR 296 -or- ME 222	Software Tools for Engineers -or- MATLAB for ME	2
			ENGR 335	Electric Circuits	3
			ENGR 350A	Mechanics of Materials	3
			ENGR 351	Numerical Methods	3
			ENGR 370A	Fluid Mechanics	3
			ME 300	Engineering Thermodynamics I	3
			ME 302	Engineering Heat Transfer	3
			ME 309	Mechanical Analysis & Design	3
			ME 312	Materials Sci Fundamentals	3
			ME 336	System Dynamics & Control	3
			ME 400	Engr Thermodynamics II	3
			ME 401	Thermal Measurements Lab	1
			ME 407	Measurements & Instrumentation	2
			ME 411	Mnfg Methods: Engr Mats	3
			ME 472	Materials Selection for Design	3
			ME 475	Machine Design I	3
			ME 495A	Mechanical Engr Design	3
			ME 495B	Mechanical Engr Design	3
			ME Electives	Choose from 400 level ME courses	9
					<b>59</b>
<b>Total semester hrs completed w/ AS degree</b>		<b>63</b>	<b>Total semester hrs completed with BS degree:</b>		<b>71</b>
<i>Degree Plan created by SW 10/5/21</i>			<b>Total semester hrs to BS degree:</b>		<b>134</b>