PROGRAM ARTICULATION DEGREE PLAN					
Shawnee Community College	***2021-2022***		***Southern Illinois University Carbondale***		
Associate of Science (A.S.) - 67 hours			BS Mechanical Engineering (ME) - 126 hrs		
			University Core Curriculum (UCC)*		
		Hrs			**Hrs**
			UNIV 101	Saluki Success	NA
ENG 111	English Composition I	3	ENGL 101	English Composition I	T
ENG 112	English Composition II	3	ENGL 102	English Composition II	T
SPC 111	Speech	3	CMST 101	Intro to Oral Communication	T
MAT 209	Calculus I	5	MATH 150 (Required for BS degree)	Calculus I	T
ECO 212	Intro to Microeconomics	3	ECON 240 (Required for BS degree)	Intro to Microeconomics	T
SOCIAL SCIENCE	(See SIUC Equivalency Guide)	3	SOCIAL SCIENCE	(See SIUC Equivalency Guide)	T
HUMANITIES	(See SIUC Equivalency Guide)	3	HUMANITIES	(See SIUC Equivalency Guide)	T
			HUMANITIES		NA
CHE 114	Inorganic Chemistry I w/lab	5	CHEM 200/201 (Required for BS degree)	Intro to Chemical Principles/Lab	T
			LIFE SCIENCE, GRP II	(Students take 2 Physics courses)	NA
FINE ARTS	(See SIUC Equivalency Guide)	3	FINE ARTS	(See SIUC Equivalency Guide)	T
BIOL 115	Human Biology	4	BIOL 202 (Required for BS degree)	Human Genetics and Human Health	T
			MULTICULTURAL		NA
		35			**0**
			***Any AS degree from an accredited Illinois institution satisfies UCC requirements**		
Program Requirements			**Program Requirements**		
MAT 211	Calculus II	5	MATH 250	Calculus II	T
MAT 212	Calculus III	5	MATH 251	Calculus III	T
MAT 213	Ordinary Differential Equations I	3	MATH 305	Intro to Differential Equations	T
PHY 216	University Physics I	4	PHYS 205/255A	University Physics/Lab	T
PHY 217	University Physics II	4	PHYS 205/255B	University Physics/Lab	T
EGR 212	Engineering Statics	3	ENGR 250	Statics	T
EGR 214	Engineering Dynamics	3	ENGR 261	Dynamics	T
CHE 115	Inorganic, Organic & Biochemistry w/lab	5	CHEM 210/211	General and Inorganic Chemistry/Lab	T
		32			
			ME 102	Computer-Aided Engineering Drawing	2
			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 Matls	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
					61
Total semester hrs completed w/ AS degree		**67**	**Total semester hrs completed with BS degree:**		**61**
Degree Plan created by SW 9/30/21			**Total semester hrs to BS degree:**		**128**