PROGRAM ARTICULATION DEC	GREE PLAN				
Southeastern Illinois College	2024-2025		Southern Illinois University Carbondale		
Associate in Engineering Science	(AES) - 68 hrs		BS Mechanical Engineering (ME) - 126 hrs		
			University Core Curriculum (UCC) Capstone Op	tion - 30 hrs	
		Hrs			Hrs
			UNIV 101	Saluki Success	NA
			CMST 101	Intro to Oral Communication	3
ENG 121	Rhetoric & Composition I		ENGL 101	English Composition I	Т
ENG 122	Rhetoric & Composition II		ENGL 102	English Composition II	Т
MATH 162	Calculus & Analytic Geometry I		MATH 150	Calculus I	Т
ECON 122	Intro to Microeconomics		ECON 240	Intro to Microeconomics	Т
	Social & Behavior Sciences		SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	Т
	Humanities	3	HUMANITIES	See SIUC Transfer Equivalency Guide	Т
			HUMANITIES		NA
CHEM 121	General Chemistry I	5	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab	T
			LIFE SCIENCE		3
	Fine Arts	3	FINE ARTS	See SIUC Transfer Equivalency Guide	Т
			BIOL 202	Human Genetics & Human Health	2
			MULTICULTURAL		3
		28			11
Program Requirements			Program Requirements		
GRAP 121	Engineering Graphics 1	3		will be used to satisfy general elective credit	
CHEM 122	General Chemistry & Analysis II		CHEM 210 -and- 211	General & Inorganic Chemistry w/Lab	Т
MATH 165	Scientific Programming		ECE 222 (elective)	Intro to Digital Computation	T
MATH 221	Calculus & Analytic Geometry II		MATH 250	Calculus II	T
MATH 222	Calculus & Analytic Geometry III		MATH 251	Calculus III	Т
MATH 225	Differential Equations		MATH 305	Intro to Differential Equations	T
PHYS 221	General Physics		PHYS 205A -and- 255A	University Physics w/Lab	Т
PHYS 222	General Physics II		PHYS 205B -and- 255B	University Physics w/Lab	Т
PHYS 241	Statics		ENGR 250	Statics	T
PHYS 242	Dynamics		ENGR 261	Dynamics	Т
		40			
			Select 1 Course:	ENGR 222 -or- 296 -or- ME 222	2
			ENGR 335	Electric Circuits I	3
			ENGR 350A	Mechanics of Materials	3
			ENGR 351	Numerical Methods in Engineering	3
			ENGR 370A	Fluid Mechanics	3
			ME 102	Computer-Aided Engineering Drawing	2
			ME 300	Engineering Thermodynamics I	3
			ME 302	Engineering Heat Transfer	3
			ME 309	Mechanical Analysis & Design	3
			ME 312	Materials Science Fundamentals	3
			ME 336	System Dynamics & Control	3
			ME 401	Thermal Measurements Lab	1
			ME 407	Measurements & Instrumentation	2
			ME 411	Manufacturing Methods for Engineering Materials	3
			ME 475	Machine Design I	3
			ME 495A	Mechanical Engineering Design	3
			ME 495B	Mechanical Engineering Design	3
				At least 12 credit hours must be from 400-level ME courses	
			Mechanical Engineering Electives	and 3 credit hours may be from IMAE 470A or a 400-level	15
				course used for a Math minor.	61
					61
Total semester hrs completed v	with AES degree:	68	Total semester hrs completed with BS degree:		72
rotal semester firs completed v	viui AES degree.	00	rotal semester his completed with 65 degree:		12
			Total hrs to BS degree:		140
			rotal in 5 to 50 degree.		140
Degree Plan updated on 6/13/24	hy SC				
Degree Flan updated on 6/13/24	Dy GG			<u> </u>	