McHenry County Co	LATION DEGREE PLAN		Southern Illinois University Carbondale		+-
Nonenry County Co	bllege 2022-2023 ring Science (AES) - 64 hrs		BS Mechanical Engineering (ME) - 126 hrs		
Associate in Engineer	Ting Science (AES) - 64 fils		University Core Curriculum (UCC) Capston	o Ontion	_
		Hrs	University Core Curriculum (UCC) Capston	e Option	Hr
		піз	UNIV 101	Foundations of Inquiry	N/
			CMST 101	Intro to Oral Communication	3
NG 151	Composition I	3	ENGL 101	English Composition I	J
NG 151	Composition II	3	ENGL 101	English Composition II	Ť
MAT 175	Calculus & Analytical Geometry I	5	MATH 150 (Required for BS degree)	Calculus I	Ť
CO 251	Microeconomics	3	ECON 240 (Required for BS degree)	Intro to Microeconomics	1
EGO 231	IAI SOCIAL SCIENCE*	3	SOCIAL SCIENCE	Intro to Microeconomics	3
	IAI HUMANITIES*	3	HUMANITIES		T
	IAI HOWANTIES	3	HUMANITIES		N.
CHM 165	General Chemistry I	5	CHEM 200/201 (Required for BS degree)	Intro to Chemical Principles/LAB	IN/
CHW 105	General Chemistry I	3	LIFE SCIENCE	Students take 2 physics courses	N.
	IAI FINE ARTS*	3	FINE ARTS	(SIUC Equivalency Guide)	T
	IAI FINE ANTS	3	BIOL 202 (Required for BS degree)	Human Genetics and Human Health	2
			MULTICULTURAL	numan Geneucs and numan nearm	3
		25	MOLTICOLTORAL		1
*One seures must al	so satisfy Non-Western/Minority requirement	25			
One course must ais	so satisty Non-Western/Millionty requirement				+
Program Requireme	onto		Program Requirements		+
CSC 121	Computer Science I	4		t auticulated will be used to estictus assert elective availt	
				t articulated will be used to satisfy general elective credit	
CHM 166*	General Chemistry II	5	CHEM 210 (Required for BS degree)	General and Inorganic Chemistry	1
EGR 260	Circuit Analysis	4	ENGR 335 (Required for BS degree)	Electric Circuits	T
EGR 151*	Engineering Graphics	4	ME 102 (Required for BS degree)	Computer-Aided Engineering Drawing	Ţ
EGR 251*	Statics	3	ENGR 250 (Required for BS degree)	Statics	T
EGR 252*	Dynamics	3	ENGR 261 (Required for BS degree)	Dynamics	T
MAT 245	Calculus & Analytical Geometry II	5	MATH 250 (Required for BS degree)	Calculus II	T
MAT 255	Calculus & Analytical Geometry III	4	MATH 251 (Required for BS degree)	Calculus III	
MAT 260	Differential Equations	3	MATH 305 (Required for BS degree)	Intro to Ord Diff Equations I	T
PHY 291	Principles of Physics I	4	PHYS 205/255A (Required for BS degree)	University Physics/Lab	T
PHY 292	Principles of Physics II	4	PHYS 205/255B (Required for BS degree)	University Physics/Lab	Т
		43			
*Recommended to fulfill BS requirements			ENGR 350B	Mechanics of Materials (LAB only)	1
			ENGR 351	Numerical Methods	3
			ENGR 370A	Fluid Mechanics	3
			ME 222	Matlab Programming for Mechanical Engineers	2
			ME 300	Engineering Thermodynamics	3
			ME 302	Engineering Heat Transfer	3
			ME 309	Mechanical Analysis & Design	3
			ME 312	Materials Science Fundamentals	3
			ME 336	System Dynamics and Control	3
			ME 401	Thermal Measurements Lab	1
			ME 407	Measurements & Controls	2
			ME 411	Manufacturing Methods: Engineering Materials	3
			ME 475	Machine Design I	3
			ME 495A	Mechanical Engineering Design	3
			ME 495B	Mechanical Engineering Design	3
			-Mechanical Engineering Elective	At least 12 credit hours must be from 400-level ME courses and 3 credit hours may be from IMAE 470A or a 400-level course used for a Math minor.	15
				,	5-
					Ť
			Total semester hrs completed with BS deg	ree:	65
Total semester hrs	completed with AES degree:	68			
			Total semester hrs to BS degree:		133
Degree Plan updated					