PROGRAM ARTICULA	ATION DEGREE PLAN				
Waubonsee Commun	nity College 2022-2023		Southern Illinois University Carbondale		
	ing Science (AES) - 60+ hrs		BS Computer Engineering (CEGR) - 120 h		
			University Core Curriculum (UCC) - 41 h	rs	
		Hrs			Hrs
			UCOL 101	Foundations of Inquiry	NA
ENG 101	First-Year Composition I	3	ENGL 101	English Composition I	Т
ENG 102	First-Year Composition II		ENGL 102	English Composition II	Т
COM 100	Fund of Speech Communication		CMST 101	Intro:Oral Communication	Т
MTH 131	Calculus & Analytical Geometry I		MATH 150 (Required for BS degree)	Calculus I	Т
ECN 201	Principles of Microeconomics		ECON 240	Microeconomics	Ť
	*IAI Social Science		SOCIAL SCIENCE	(See SIUC Equivalency Guide)	Ť
	*IAI Humanities		HUMANITIES	(See SIUC Equivalency Guide)	T
	II II I I I I I I I I I I I I I I I I		HUMANITIES	(1000 Cito C Equitationary Cultury)	NA
CHEM 121	General Chemistry	4	CHEM 200/201 (Required for BS degree)	Intro to Chemical Principles/Lab	T
PHY 221	General Physics I		PHYS 205/255A (Required for BS degree)		Ť
1111 221	Contrary nyoloc i		FINE ARTS	Oniversity i Tryelou/Eus	3
			BIOL 202 (Required for BS degree)	Human Genetics and Human Health	2
			MULTICULTURAL	Trainan Conotico and Trainan House	3
		31	111002101012		8
*One course satisfying dear	ee requirements must have a non-Western (N) or diversity (D) emphasis.	- 0.			_
One course saustying degre	ee requirements must have a non-vvestern (14) or diversity (D) emphasis.				
Program Requiremen	nte		Program Requirements		
CIS 115	Introduction to Programming	3	·		
EGR 101	Engineering Graphics	4	Any course not articulated will be used to satisfy general credit		
CHEM 122	Chemistry & Qualitative Analysis		CHEM 210/211 (Required for BS degree)	General & Inorganic Chemistry/Lah	Т
CIS 130 -and- 230	C++ Programing -and- Advanced C++			Intro to Digital Computation	+ ÷
MTH 132	Calculus & Analytical Geometry II		MATH 250 (Required for BS degree)	Calculus II	Ť
MTH 233	Calculus & Analytical Geometry III		MATH 250 (Required for BS degree)	Calculus III	+÷
MTH 240	Differential Equations		MATH 305 (Required for BS degree)	Intro to Differential Equations I	Ť
PHY 222	General Physics II		PHYS 205/255B (Required for BS degree)		⊢ i
	General Filysics II	33	(Nequired for B3 degree)	Onliversity Filysics/Lab	- '
		33	ECE 235/235L	Electric Circuits/Lab	4
			ECE 296/296L	Software Tools for Robotics/Lab	4
			ECE 315	Math Methods in ECE	4
			ECE 313 ECE 321/321L	Intro Software Engineering/Lab	4
				Digital Circuit Design with HDL/Lab	4
				Computer Organization & Design/Lab	4
			ECE 329/329L ECE 345/345L	Electronics/Lab	4
			ECE 355/355L	Signals & Systems/Lab	4
			ECE 495C	ECE Senior Design I	3
			ECE 495C ECE 495D	ECE Senior Design II	3
				At least 20 hours from the following list: ECE 412-432, two approved CS courses	
			ECE Electives	At least 20 hours from the following list: ECE 412-432, two approved CS courses from CS 3XX or 4XX level (except CS 300, 393, or 493)	
					61
Total semester hrs completed with AES degree:		64	Total semester hrs completed with BS d	egree:	69
			Total to BS degree:		133
Degree Plan created b	N/ SM/ 10/10/21		rotal to Do degree.		133