PROGRAM ARTICULATION DEGREE PLAN					
Oakton Community College	***2022-2023***		***Southern Illinois University Carbondale***		
Associate of Science in Engineering (ASE) - 64 hrs			BS Computer Engineering (CEGR) - 126 hrs		
			University Core Curriculum (UCC) CAPSTONE Option - 30 hrs		
		Hrs			**Hrs**
			UNIV 101	SalukiSuccess	NA
			CMST 101	Intro to Oral Communication	3
EGL 101	Composition I	3	ENGL 101	English Composition I	T
EGL 102	Composition II	3	ENGL 102	English Composition II	T
MAT 250	Calculus I	5	MATH 150 (Required for BS degree)	Calculus I	T
	IAI SOCIAL/BEHAVIOR SCIENCE*	3	SOCIAL SCIENCE	(See SIUC Equivalency Guide)	T
	IAI SOCIAL/BEHAVIOR SCIENCE*	3	SOCIAL SCIENCE	(See SIUC Equivalency Guide)	T
	IAI FINE ARTS/HUMANITIES	3	HUMANITIES	(See SIUC Equivalency Guide)	T
			HUMANITIES		NA
CHM 121	General College Chemistry I	4	CHEM 200/201 (Required for BS degree)	Intro to Chemical Principles/Lab/Workshop	T
PHY 221	General Physics I	5	PHYS 205/255A (Required for BS degree)	University Physics/Lab	T
			LIFE SCIENCE	(Students take 2 physics courses)	N/A
			BIOL 202 (Required for BS Degree)	Human Genetics and Human Health	2
			MULTICULTURAL		3
		29			**8**
**Student must choose courses that fulfill both the Global Studies and U.S. Diversity Studies requirements*					
Program Requirements			**Program Requirements**		
CSC 170	Introduction to Numerical Methods	2	**Any course not articulated will be used to satify general elective credit**		
CSC 171, 172, 173, or 174	C++, FORTRAN, Java Prog for Engrs, or Python Prog for Engrs	1			
CHM 122	General College Chemistry II	4	CHEM 210/211 (Required for BS Degree)	General & Inorganic Chemistry Lab	T
ENG 120	Engineering Graphics	3	ME 102	Computer-Aided Drawing	T
ENG 211	Analytical Mechanics (Statics)	3	ENGR 250	Statics	T
ENG 212	Analytic Mechanics (Dynamics)	3	ENGR 261	Dynamics	T
ENG 220	Engineer Circuit Analysis	4	ECE 235/235L (Required for BS degree)	Electric Circuits I/Lab T	T
MAT 251	Calculus II	4	MATH 250 (Required for BS Degree)	Calculus I	T
MAT 252	Calculus III	4	MATH 251 (Required for BS Degree)	Calculus III	T
MAT 262	Ordinary Differential Equations	3	MATH 305 (Required for BS Degree)	Intro Differential Equations I	T
PHY 222	General Physics II	5	PHYS 205/255B	University Physics/Lab	T
		36			
			ECE 222	Intro to Digital Computation	3
			ECE 296/296L	Introduction to Software Tools and Robotics	4
			ECE 315	Mathematical Methods in ECE	4
			ECE 321/321L	Intro to Software Engineering/Lab	4
			ECE 327/327L	Digital Circuit Design with HDL/Lab	4
			ECE 329/329L	Computer Organization & Design/Lab	4
			ECE 345/345L	Electronics/Lab	4
			ECE 355/355L	Signals & Systems/Lab	4
			ECE 495C	ECE Senior Design I	3
			ECE 495D	ECE Senior Design II	3
			ECE Technical Electives	*Approved ECE technical electives: ECE 3XX or 4XX level (except ECE 392, 492 & 493).*	23
			General Technical Electives	*Approved General technical electives: ECE 3XX or 4XX level (except ECE 493); CHEM 210; MATH 221, 282, 302, 349, 380, or 4XX level (except MATH 411, 412); CS 3XX or 4XX level (except CS 300, 301, 393, or 493); ENGR 2XX, 3XX, 4XX (except ENGR 222, 296, 335), ENGR3XXi (if not already counted toward the student's core requirement); BME 485; IMAE470A.*	6
					66
Total semester hrs completed with ASE degree:		**65**	**Total semester hrs completed with BS degree:**		**74**
			Total semester hrs to BS degree:		**139**
Degree plan created by LB 12/7/2022					