PROGRAM ARTICULATION DE	GREE PLAN				1	
Oakton College	2024-2025		Southern Illinois University Carbondale			
Associate of Science in Engineering (ASE) - 65 hrs			BS Computer Engineering (CEGR) - 126 hrs			
			University Core Curriculum (UCC) CAPSTO	ONE 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	Т	
EGL 102	Composition II	3	ENGL 102	English Composition II	Т	
MAT 250	Calculus I	5	MATH 150	Calculus I	Т	
	IAI SOCIAL/BEHAVIOR SCIENCE*	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	Т	
	IAI SOCIAL/BEHAVIOR SCIENCE*	3	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide	Т	
	IAI FINE ARTS/HUMANITIES	3	HUMANITIES	See SIUC Transfer Equivalency Guide	Т	
			HUMANITIES		NA	
CHM 121	General College Chemistry I	4	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab	Т	
PHY 221	General Physics I	5	PHYS 205A -and- 255A	University Physics w/Lab	Т	
			LIFE SCIENCE		3	
			FINE ARTS		3	
			BIOL 202	Human Genetics & Human Health	2	
			MULTICULTURAL		3	
		29			14	
*Student must choose course	s that fulfill both the Global Studies and U.S. Diversity Studies requirements					
Program Requirements			Program Requirements			
CHM 122	General College Chemistry II	4	CHEM 210 -and- 211	General & Inorganic Chemistry w/Lab	Т	
CSC 170	Intro to Numerical Methods	2	ITEC 1XX -or- IMAE 1XX (elective)	ITEC Tech Elective 100-level -or- IMAE Tech Elective 100-level	Т	
CSC 171, 173 -or- 174	C++, FORTRAN, Java -or- Python Programming for Engineers	1	ITEC 1XX -or- IMAE 1XX (elective)	ITEC Tech Elective 100-level -or- IMAE Tech Elective 100-level	Т	
ENG 120	Engineering Graphics	3	ME 102 -or- IMAE 1XX (elective)	Computer-Aided Engineering Drawing -or- IMAE Tech Elective 100-level	Т	
ENG 211	Analytic Mechanics (Statics)	3	ENGR 250 (elective)*	Statics	Т	
ENG 212	Analytic Mechanics (Dynamics)	3	ENGR 261 (elective)*	Dynamics	Т	
ENG 220	Engineer Circuit Analysis	4	ECE 235 -and- 235L	Electric Circuits I w/Lab	Т	
MAT 251	Calculus II	4	MATH 250	Calculus I	Т	
MAT 252	Calculus III	4	MATH 251	Calculus III	Т	
MAT 262	Ordinary Differential Equations	3	MATH 305	Intro to Differential Equations	Т	
PHY 222	General Physics II	5	PHYS 205B -and- 255B	University Physics w/Lab	Т	
		36				
			ECE 222	Intro to Digital Computation	3	
			ECE 296 -and- 296L	Intro to Microcontrollers & Robotics w/Lab	4	
			ECE 315	Mathematical Methods in ECE	4	
			ECE 321 -and- 321L	Intro to Software Engineering w/Lab	4	
			ECE 327 -and- 327L	Digital Circuit Design with HDL w/Lab	4	
			ECE 329 -and- 329L	Computer Organization & Design w/Lab	4	
			ECE 345 -and- 345L	Electronics w/Lab	4	
			ECE 355 -and- 355L	Signals & Systems w/Lab	4	
			ECE 495C	CEGR Senior Design I	3	
			ECE 495D	ECE Senior Design II	3	
				23 hours of ECE electives. At least 20 hours from: ECE 412, 422, 423, 424,		
			Technical Electives	425, 426, 427, 428, 429, 430, 431, 432. 3 hours can be approved CS	23	
				courses		
					60	
Total semester hrs completed with ASE degree:		65	Total semester hrs completed with BS deg	ree:	74	
			Total semester hrs to BS degree:		139	
Degree Plan updated on 6/24/24	4 by SG		*Count as general technical electives			