

PROGRAM ARTICULATION DEGREE PLAN			
City Colleges of Chicago 2018-2019		Southern Illinois University Carbondale	
Associate in Engineering Science (AES) - 67 hrs		BS Computer Engineering (CEGR) - 126 hrs	
		University Core Curriculum (UCC) - 39 hrs	
		Hrs	Hrs
		UNIV 101	Saluki Success
ENGLISH 101	English I	3	ENGL 101
ENGLISH 102	English II	3	ENGL 102
		CMST 101	Intro to Oral Communication
MATH 207	Calculus & Analytical Geometry I	5	MATH 150 (Required for BS degree)
ECON 201 -or- ECON 202	Principles of Economics I -or- Principles of Economics II	3	ECON 240 -or- ECON 241 (Required for BS degree)
		SOCIAL SCIENCE	
		PHIL 104 (Required for BS degree)	Ethics
		PHIL 105 (Required for BS degree)	Elementary Logic
CHEM 201	General Chemistry I	5	CHEM 200/201/202 (Required for BS degree)
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5	PHYS 205/255A (Required for BS degree)
HUMANITIES/FINE ARTS*	(See SIUC Equivalency Guide)	3	FINE ARTS
		BIOL 202 (Required for BS degree)	Human Genetics and Human Health
		ENGR 304I (Required for BS degree)	Social History of American Technology
*Course must fulfill State of Illinois Human Diversity requirement		27	17
Program Requirements		Program Requirements	
ENGR 190	Computer Applications in Engineering	3	ECE 222 (Required for BS degree)
ENGR 215	Electrical Circuit Analysis	5	ECE 235/235L (Required for BS degree)
MATH 208	Calculus & Analytical Geometry II	5	MATH 250 (Required for BS degree)
MATH 209	Calculus & Analytical Geometry III	5	MATH 251 (Required for BS degree)
MATH 210	Differential Equations	3	MATH 305 (Required for BS degree)
PHYSICS 215	Statics	3	ENGR 250
PHYSICS 216	Dynamics	3	ENGR 261
PHYSICS 217	Mechanics of Materials	3	ENGR 350A
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5	PHYS 205/255B (Required for BS degree)
PHYSICS 237	Engineering Physics III: Heat, Light and Modern Physics	5	
		40	
		ECE 296/296L	Software Tools for Engineers/Lab
		ECE 315	Mathematical Methods in ECE
		ECE 321/321L	Intro to Software Engineering/Lab
		ECE 327/327L	Digital Circuit Design with HDL/Lab
		ECE 329/329L	Computer Organization & Design/Lab
		ECE 345/345L	Electronics/Lab
		ECE 355/355L	Signals & Systems/Lab
		ECE 495C	CEGR Senior Design I
		ECE 495D	ECE Senior Design II
		ECE Electives	At least 20 hrs from the following: ECE 422, 423, 424, 425, 427, 428, 429, 432
		Computer Science Electives	Select 2 courses from approved list
		Science Elective w/ Lab	Satisfied by CHEM 200/201/202
			64
Total semester hrs completed with AES degree:		67	Total semester hrs completed with BS degree:
			81
			Total to BS degree:
			148

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