

PROGRAM ARTICULATION DEGREE PLAN					
City Colleges of Chicago 2018-2019		Southern Illinois University Carbondale			
Associate in Engineering Science (AES) - 64+ hrs		BS Mechanical Engineering (ME) - 126 hrs			
		University Core Curriculum (UCC) Capstone Option - 39 hrs			
		Hrs			Hrs
			UNIV 101	Saluki Success	NA
ENGLISH 101	English I	3	ENGL 101	English Composition I	T
ENGLISH 102	English II	3	ENGL 102	English Composition II	T
			CMST 101	Intro to Oral Communication	3
MATH 207	Calculus & Analytical Geometry I	5	MATH 150 (Required for BS degree)	Calculus I	T
ECON 202	Principles of Economics II	3	ECON 240 (Required for BS degree)	Microeconomics	T
			SOCIAL SCIENCE		3
HUMANITIES/FINE ARTS*	(See SIUC Equivalency Guide)	3	HUMANITIES		T
			HUMANITIES		NA
CHEM 201	General Chemistry I	5	CHEM 200/201/202 (Required for BS degree)	Intro to Chemical Principles/Lab/Workshop	T
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5	PHYS 205/255A (Required for BS degree)	University Physics/Lab	T
			FINE ARTS		3
			BIOL 202 (Required for BS degree)	Human Genetics and Human Health	2
			MULTICULTURAL		3
*Course must fulfill State of Illinois Human Diversity requirement		27			14
Program Requirements			Program Requirements		
CHEM 203	General Chemistry II	5	CHEM 210/211/212 (Required for BS degree)	General & Inorganic Chemistry/Lab/Workshop	T
ENGR 190	Computer Applications in Engineering	3	ENGR 222 (Required for BS degree)	Computational Methods for Engineers & Technologists	T
MATH 208	Calculus & Analytical Geometry II	5	MATH 250 (Required for BS degree)	Calculus II	T
MATH 209	Calculus & Analytical Geometry III	5	MATH 251 (Required for BS degree)	Calculus III	T
MATH 210	Differential Equations	3	MATH 305 (Required for BS degree)	Intro to Ordinary Differential Equations I	T
PHYSICS 215	Statics	3	ENGR 250 (Required for BS degree)	Statics	T
PHYSICS 216	Dynamics	3	ENGR 261 (Required for BS degree)	Dynamics	T
PHYSICS 217	Mechanics of Materials	3	ENGR 350A (Required for BS degree)	Mechanics of Materials	T
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5	PHYS 205/255B (Required for BS degree)	University Physics/Lab	T
PHYSICS 237	Engineering Physics III: Heat, Light and Modern Physics	5			
		40			
			ME 102	Computer Aided Drawing	2
			ENGR 335	Electric Circuits	3
			ENGR 351	Numerical Methods	3
			ENGR 370A	Fluid Mechanics	3
			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 400	Engineering Thermodynamics II	3
			ME 401	Thermal Measurements Lab	1
			ME 407	Measurements & Controls	2
			ME 411	Manufacturing Methods: Engineering Materials	3
			ME 472	Materials Selection for Design	3
			ME 475	Machine Design I	3
			ME 495A	Mechanical Engineering Design	3
			ME 495B	Mechanical Engineering Design	3
			Mechanical Engineering Electives	Select any 300/400 level ME Electives	9
					56
Total semester hrs completed with AES degree:		67	Total semester hrs completed with BS degree:		70
			Total hrs to BS degree:		137