

PROGRAM ARTICULATION DEGREE PLAN					
Waubonsee Community College 2021-2022			Southern Illinois University Carbondale		
Associate of Engineering Science (A.E.S.) - 65 hours			BS Mechanical Engineering (ME) - 126 hrs		
		Hrs	University Core Curriculum (UCC)*		
				Hrs	
			UNIV 101	Saluki Success	NA
ENG 101	First-Year Composition I	3	ENGL 101	English Composition I	T
ENG 102	First-Year Composition II	3	ENGL 102	English Composition II	T
COM 100	Fund. Of Speech Communication	3	CMST 101	Intro to Oral Communication	T
MATH 131	Calculus w/Analytic Geometry	4	MATH 150	Calculus I	T
ECN 201	Prin Economics: Microeconomics	3	ECON 240 (Required for BS degree)	Intro to Microeconomics	T
			SOCIAL SCIENCE		3
	*IAI Humanities	3	HUMANITIES	(See SIUC Equivalency Guide)	T
			HUMANITIES		NA
CHM 121	General Chemistry	4	CHEM 200/201 (Required for BS degree)	Intro to Chemical Principles/Lab	T
			LIFE SCIENCE, GRP II	(Students take 2 Physics courses)	NA
	*IAI Fine Arts	3	FINE ARTS	(See SIUC Equivalency Guide)	T
			BIOL 202 (Required for BS degree)	Human Genetics and Human Health	2
			MULTICULTURAL		3
	*One course satisfying degree requirements must have a non-Western (N) or diversity (D) emphasis.				
		26			8
<b>Program Requirements</b>			<b>Program Requirements</b>		
CIS 115	Intro to Programming	3	Any course not articulated will be used to satisfy general electives		
CIS 130	C++ Programming	3	CS 202	Intro to Computer Science	T
CIS 230	Advanced C++	3	CS 220	Programming w/Data Structures	T
MTH 132	Calculus w/Analytic Geometry II	4	MATH 250	Calculus II	T
MTH 233	Calculus w/Analytic Geometry III	4	MATH 251	Calculus III	T
MTH 240	Differential Equations	3	MATH 305	Intro to Differential Equations	T
PHY 221	General Physics I	5	PHYS 205/255A	University Physics/Lab	T
PHY 222	General Physics II	5	PHYS 205/255B	University Physics/Lab	T
EGR 220	Analytical Mech - Statics	3	ENGR 250	Statics	T
EGR 230	Analytical Mech - Dynamics	3	ENGR 261	Dynamics	T
		36			
			ME 102	Computer-Aided Engineering Drawing	2
			ENGR 296 -or- ME 222	Software Tools for Engineers -or- MATLAB for ME	2
			ENGR 335	Electric Circuits	3
			ENGR 350A	Mechanics of Materials	3
			ENGR 351	Numerical Methods	3
			ENGR 370A	Fluid Mechanics	3
			ME 300	Engineering Thermodynamics I	3
			ME 302	Engineering Heat Transfer	3
			ME 309	Mechanical Analysis & Design	3
			ME 312	Materials Sci Fundamentals	3
			ME 336	System Dynamics & Control	3
			ME 400	Engr Thermodynamics II	3
			ME 401	Thermal Measurements Lab	1
			ME 407	Measurements & Instrumentation	2
			ME 411	Mnfg Methods: Engr Mats	3
			ME 472	Materials Selection for Design	3
			ME 475	Machine Design I	3
			ME 495A	Mechanical Engr Design	3
			ME 495B	Mechanical Engr Design	3
			ME Electives	Choose from 400-level ME courses	9
					61
<b>Total semester hrs completed w/ AES degree</b>		<b>62</b>	<b>Total semester hrs completed with BS degree:</b>		<b>69</b>
Degree Plan updated by SW on 11/12/21			<b>Total semester hrs to BS degree:</b>		<b>131</b>