

PROGRAM ARTICULATION DEGREE PLAN			
Kankakee Community College 2021-2022		Southern Illinois University Carbondale	
Associate in Engineering Science (AES) - 69 hrs		BS Mechanical Engineering (ME) - 126 hrs	
		<b>University Core Curriculum (UCC) CAPSTONE Option - 30 hrs</b>	
		<b>Hrs</b>	<b>Hrs</b>
			UCOL 101 Foundations of Inquiry NA
ENGL 1613	English I	3	ENGL 101 English Composition I T
ENGL 1623	English II	3	ENGL 102 English Composition II T
			CMST 101 Intro:Oral Communication 3
MATH 2515	Calculus & Analytical Geometry I	5	MATH 150 (required for BS degree) Calculus I T
ECON 1563	Intro to Microeconomics	3	ECON 240 (Required for BS degree) Intro to Microeconomics T
	IAI SOCIAL SCIENCE	3	SOCIAL SCIENCE (See SIUC Equivalency Guide) T
	IAI HUMANITIES	3	HUMANITIES (See SIUC Equivalency Guide) T
			HUMANITIES (See SIUC Equivalency Guide) T
CHEM 1614	General Chemistry I	4	CHEM 200/201 (Required for BS degree) Intro to Chemical Principles/Lab T
PHYS 2614	Physics I	4	PHYS 205A/255A (Required for BS degree) University Physics/Lab T
	IAI FINE ARTS	3	FINE ARTS (See SIUC Equivalency Guide) T
			BIOL 202 (Required for BS degree) Human Genetics and Human Health 2
	IAI MULTICULTURAL	3	MULTICULTURAL (See SIUC Equivalency Guide) T
		<b>34</b>	<b>5</b>
<b>Program Requirements</b>		<b>Program Requirements</b>	
CHEM 1624	General Chemistry II	4	CHEM 210/211 (Required for BS degree) General & Inorganic Chemistry/Lab T
COSC 2613	Computer Programming for Science and Engineering	3	ENGR 222 (Required for BS degree) Computational Methods for Engineers & Technologists T
MATH 2524	Calculus & Analytical Geometry II	4	MATH 250 (Required for BS degree) Calculus II T
MATH 2534	Calculus & Analytical Geometry III	4	MATH 251 (Required for BS degree) Calculus III T
MATH 2613	Differential Equations	3	MATH 305 (Required for BS degree) Intro to Ordinary Differential Equations I T
PHYS 2624	Physics II	4	PHYS 205/255B (Required for BS degree) University Physics/Lab T
PHYS 2634	Physics III	4	SC1 2XX Science UCC Sub 200-level T
ENGR 2503	Statics	3	ENGR 250 (Required for BS degree) Statics T
ENGR 2523	Dynamics	3	ENGR 261 (Required for BS degree) Dynamics T
ENGR 2533	Mechanics of Materials	3	ENGR 350A (Required for BS degree) Mechanics of Materials T
		<b>35</b>	
			ENGR 335 Electric Circuits 3
			ENGR 351 Numerical Methods 3
			ENGR 370A Fluid Mechanics 3
			ME 102 Computer Aided Drawing 2
			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 & 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
			ME Electives At least 3 hrs must be at 300/400 level 9
			<b>56</b>
<b>Total semester hrs completed with AES degree:</b>		<b>69</b>	<b>Total semester hrs completed with BS degree: 61</b>
			<b>Total to BS degree: 130</b>
<i>Degree plan created by SW 1/19/2022</i>			