

PROGRAM ARTICULATION DEGREE PLAN			
Harper College		Southern Illinois University Carbondale	
2024-2025		BS Biomedical Engineering (BME) - 126 hrs	
Associate in Engineering Science - 62 hrs		University Core Curriculum (UCC) Capstone	
		Option - 30 hrs	
		Hrs	Hrs
		UNIV 101	Saluki Success
		CMST 101	Intro to Oral Communication
ENG 101	Composition	ENGL 101	English Composition I
ENG 102	Composition	ENGL 102	English Composition II
MTH 200	Calculus & Analytic Geometry I	MATH 150	Calculus I
	IAI Social Science*	SOCIAL SCIENCE	See SIUC Transfer Equivalency Guide
		SOCIAL SCIENCE	
	IAI Humanities*	HUMANITIES	See SIUC Transfer Equivalency Guide
		HUMANITIES	
CHM 121	General Chemistry I	CHEM 200 -and- 201	Intro to Chemical Principles w/Lab
		BIOL 211	Intro to Cell Biology & Genetics
		FINE ARTS	
		PHSL 201	Human Physiology
	*One course must satisfy a World Cultures & Diversity requirement	MULTICULTURAL	
		<b>22</b>	<b>19</b>
<b>Program Requirements</b>		<b>Program Requirements</b>	
Engineering Specialty Courses	Select from list of approved courses	Any unarticulated courses will be used to satisfy general elective credit	
CSC 121	Computer Science I	CS 202 (elective)	Intro to Computer Science
CSC 214	Java Programming	ECE 222	Intro to Digital Computation
MTH 201	Calculus & Analytic Geometry II	MATH 250	Calculus II
MTH 202	Calculus & Analytic Geometry III	MATH 251	Calculus III
MTH 212	Differential Equations	MATH 305	Intro to Differential Equations
PHY 201	General Physics I: Mechanics	PHYS 205A -and- 255A	University Physics w/Lab
PHY 202	General Physics II	PHYS 205B -and- 255B	University Physics w/Lab
EGR 265	Circuit Analysis	ECE 235 -and- 235L	Electric Circuits I w/Lab
		<b>40</b>	
		BME 101	Intro to Biomedical Engineering
		BME 296 -and- 296L	Intro to Microcontrollers & Robotics w/Lab
		BME 336	Biomechanics
		BME 337	Bioelectricity
		BME 338 -and- 338L	Biomedical Instruments w/Lab
		BME 351	Probability & Statistics
		BME 355L	BME Signals & Systems Lab
		BME 438	Medical Instrumentation: Application & Design
		BME 495A	BME Senior Design I
		BME 495B	BME Senior Design II
		ECE 355	Signals & Systems
		Technical Electives	At least 9 hours from: BME 341-485. Remaining credit hours can be from 300/400-level courses offered by School of ECBE.
			<b>60</b>
<b>Total semester hrs completed w/AES degree:</b>		<b>62</b>	<b>Total semester hrs completed w/BS degree:</b>
			<b>79</b>
		<b>Total to BS Degree:</b>	<b>141</b>
Degree Plan updated on 7/17/24 by SG			