

PROGRAM ARTICULATION DEGREE PLAN					
McHenry County College Associate in Engineering Science (AES) - 62 hrs		2022-2023	Southern Illinois University Carbondale BS Computer Engineering (CEGR) - 126 hrs		
		Hrs	University Core Curriculum (UCC) Capstone Option		Hrs
			UNIV 101	Saluki Success	NA
			CMST 101	Intro to Oral Communication	3
ENG 151	Composition I	3	ENGL 101	English Composition I	T
ENG 152	Composition II	3	ENGL 102	English Composition II	T
MAT 175	Calculus & Analytical Geometry I	5	MATH 150 (Required for BS degree)	Calculus I	T
IAI SOCIAL/BEHAVIORAL SCIENCE	(See SIUC Equivalency Guide)	3	SOCIAL SCIENCE	(See SIUC Equivalency Guide)	T
			SOCIAL SCIENCE		3
IAI HUMANITIES or FINE ARTS	(See SIUC Equivalency Guide)	3	HUMANITIES	(See SIUC Equivalency Guide)	T
			HUMANITIES		NA
CHM 165	General Chemistry I	5	CHEM 200/201 (Fulfills BS degree requirement)	Intro to Chemical Principles/Lab	T
			LIFE SCIENCE	(Students take 2 Physics courses)	NA
FINE ARTS	(See SIUC Equivalency Guide)	3	FINE ARTS	(See SIUC Equivalency Guide)	T
			BIOL 202 (Required for BS degree)	Human Genetics and Human Health	2
Non-Western Cultures w/in the US	(See SIUC Equivalency Guide)	3	MULTICULTURAL	(See SIUC Equivalency Guide)	T
		<b>28</b>			<b>11</b>
<b>Program Requirements</b>			<b>Program Requirements</b>		
CSC 121	Computer Science I	4	CS 202 (not required for the BS degree)	Intro to Computer Science	T
MAT 245	Calculus & Analytical Geometry II	5	MATH 250	Calculus II	T
MAT 255	Calculus & Analytical Geometry III	4	MATH 251	Calculus III	T
MAT 260	Differential Equations	3	MATH 305	Intro to Ordinary Differential Equations	T
PHY 291	Principles of Physics I	4	PHYS 205/255A	University Physics/Lab	T
PHY 292	Principles of Physics II	4	PHYS 205/255B	University Physics/Lab	T
PHY 293*	Principles of Physics III	4	PHYS 305/355	Modern Physics/Lab	T
EGR 260*	Electric Circuits Analysis	4	ECE 235/235L	Electric Circuits/Lab	T
CHEM 166	General Chemistry II	5	CHEM 210/211 (Fulfills BS degree requirement)	General & Inorganic Chemistry/Lab	T
		<b>37</b>			
			ECE 222	Intro to Digital Computation	3
<b>*Recommended to fulfill BS degree requirements</b>			ECE 296/296L	Introduction to Software Tools and Robotics	4
			ECE 315	Mathematical Methods in ECE	4
			ECE 321/321L	Intro to Software Engineering/Lab	4
			ECE 327/327L	Digital Circuit Design with HDL/Lab	4
			ECE 329/329L	Computer Organization & Design/Lab	4
			ECE 345/345L	Electronics/Lab	4
			ECE 355/355L	Signals & Systems/Lab	4
			ECE 495C	ECE Senior Design I	3
			ECE 495D	ECE Senior Design II	3
			ECE Technical Electives	Approved ECE technical electives: ECE 3XX or 4XX level (except ECE 392, 492 & 493).	23
			General Technical Electives	Approved General technical electives: ECE 3XX or 4XX level (except ECE 493); CHEM 210; MATH 221, 282, 302, 349, 380, or 4XX level (except MATH 411, 412); CS 3XX or 4XX level (except CS 300, 301, 393, or 493); ENGR 2XX, 3XX, 4XX (except ENGR 222, 296, 335), ENGR3XXi (if not already counted toward the student's core requirement); BME 485; IMAE470A.	6
					<b>66</b>
<b>Total semester hrs completed with AES degree:</b>		<b>65</b>	<b>Total semester hrs completed with BS degree:</b>		<b>77</b>
<i>Degree Plan updated 12/07/2022 LB</i>			<b>Total semester hrs to BS degree:</b>		<b>142</b>