

2025-2026 Transfer Guide Associate in Arts BS-Physics Astronomy Emphasis



MCC—Fall Semester 1	Hrs	MCC—Spring Semester 1	Hrs	MCC—Summer Semester 1	Hrs
HIST 120 or HIST 121 U.S. or POLS 136	3	ENGL 102 Composition & Reading II	3		
COMM 100 or COMM 102 Oral Communication	3	Social and Behavioral Science Course	3		
ENGL 101 Composition & Reading I	3	PHYS 220 Engineering Physics I	5		
MATH 180 Analytic Geometry & Calculus I	5	MATH 190 Analytic Geometry & Calculus II	5		

MCC—Fall Semester 2	Hrs	MCC—Spring Semester 2	Hrs	MCC—Summer Semester 2	Hrs
PHYS 221 Engineering Physics II	5	Arts and Humanities Course	3		
MATH 210 Analytic Geometry & Calculus III	5	CSIS 123 Programming Fundamentals	3		
HIST 133 or HIST 134 Western Civilization	3	CHEM 111 College Chemistry I	5		
Literature or Philosophy Course	3	Social and Behavioral Science Course	3		
		Arts and Humanities Course	3		

UMKC—Fall Semester 3	Hrs	UMKC—Spring Semester 3	Hrs	UMKC—Summer Semester 3	Hrs
PHYSICS 310 Mechanics I	3	PHYSICS 311 Mechanics II	3		
PHYSICS 330 Methods of Theoretical Physics I	3	PHYSICS 350 Modern Physics with Engineering Applications	3		
ASTR 355 Stellar Astrophysics or ASTR 356 Galaxies	3	ASTR 353 Practical Astronomy or PHYSICS 410 Thermal Physics	3		
General Elective (ASTR 150 Motions/Cosmos recommended)	3	General Elective (ASTR 155 Starlight/Star Stuff recommended)	3		
		General Elective	3		

UMKC—Fall Semester 4	Hrs	UMKC—Spring Semester 4	Hrs	UMKC—Summer Semester 4 H	Hrs
PHYSICS 460 Electricity and Magnetism I	3	ASTR 465 Cosmology	3		
PHYSICS 472 Intro. To Quantum Mechanics	3	PHYSICS 461 Electricity and Magnetism II	3		
ASTR 355 Stellar Astrophysics or	3	General Elective	3		
ASTR 356 Galaxies					
PHYSICS 395L Computer Interfacing Lab or	3	General Elective	3		
PHYSICS 476LW Advanced Laboratory					
General Elective	3	General Elective	3		

^{*}Recommended course

To satisfy the AA global diversity requirement, make sure that one of your arts/humanities or social/behavioral sciences courses also has the diversity designation.

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