



Transfer Guide
Associate of Science
BS-Biomedical Engineering



JCCC—Fall Semester 1		Hrs	JCCC—Spring Semester 1		Hrs	JCCC—Summer Semester 1		Hrs
CHEM 124/125 General Chemistry I/Lab	5	ENGL 122 Composition II	3	COMS 120 or 121	3			
ENGL 121 Composition I	3	MATH 242 Calculus II	5	Humanities Course	3			
MATH 241 Calculus I	5	PHYS 220 Engineering Physics I	5					
Humanities Course	3	Social and Behavioral Sciences	3					

JCCC—Fall Semester 2		Hrs	JCCC—Spring Semester 2		Hrs	UMKC—Summer Semester 2		Hrs
ENGR 251 Statics	3	CS 200 Concepts of Programming Algorithms C++	4	BIOL 202 Cell Biology (at UMKC)	3			
MATH 243 Calculus III	5	BIOL 135 Principles of Cell & Molecular Biology	4	ME 285 Dynamics (at UMKC)	3			
PHYS 221 Engineering Physics II	5	MATH 254 Differential Equations	4					
CHEM 131/132 General Chemistry II/Lab	5	Social and Behavioral Sciences	3					
		Cultural Diversity course	3					

UMKC—Fall Semester 3		Hrs	UMKC—Spring Semester 3		Hrs	UMKC—Summer Semester 3		Hrs
BMD-ENGR 115 Intro to Biomedical Engineering	1	BMD-ENGR 215 3D Modeling & Printing	1					
BIOL 304 Biostatistics I	3	ECE 276/277 Circuit Theory I/Lab	4					
BIOL 316 Principles of Physiology	3	ME 299 Engineering Thermodynamics	3					
ECE 380/381 Signals & Systems/Lab	4	BMD-ENGR 315 Biomed Instrumentation	3					
ME 411 Intro to Biomechanics	3	BMD-ENGR 325 Biomedical Systems Physiology	3					

UMKC—Fall Semester 4		Hrs	UMKC—Spring Semester 4		Hrs	UMKC—Summer Semester 4		Hrs
ME 492 Mechanical Design Synthesis I	3	BMD-ENGR 495WI Biomedical Capstone Design	3					
ME 406 Intro to Biomaterials	3	Biomedical Engineering Elective	3					
BMD-ENGR 335 Biomedical Transport Phenomena	3	Biomedical Engineering Elective	3					
BMD-ENGR 415 Bioelectromagnetics & Bioelectricity	3							
Biomedical Engineering Elective	3							

To be exempt from the UMKC Essentials or Missouri Core 42 general education requirements, JCCC students are encouraged to complete the Associate of Science degree.

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