



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 Communications Course	3
ENGL 121 Composition I	3	MATH 242 Calculus II	5	Arts & Humanities Course	3
MATH 241 Calculus I	5	PHYS 220 Engineering Physics I	5		
Arts & Humanities Course	3	Social & Behavioral Sciences Course	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		
PHYS 221 Engineering Physics II	5	MATH 254 Differential Equations	4		
CHEM 131/132 General Chemistry II/Lab	5	Cultural Diversity Course	3		
		Social & Behavioral Sciences 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		
BIOLOGY 304 Biostatistics I	3	E&C-ENGR 276/277 Circuit Theory I/Lab	4		
BIOLOGY 316 Principles of Physiology	3	MEC-ENGR 299 Engineering Thermodynamics	3		
E&C-ENGR 380/381 Signals & Systems/Lab	4	MEC-ENGR 285 Dynamics	3		
		Biomedical Elective 300/400 level	3		

UMKC—Fall Semester 4	Hrs	UMKC—Spring Semester 4	Hrs	UMKC—Summer Semester 4	Hrs
MEC-ENGR 492 Mechanical Design Synth I	3	BMD-ENGR 495WI Biomedical Capstone Design	3		
MEC-ENGR 406 Intro to Biomaterials	3	BMD-ENGR 315 Biomed Instrumentation	3		
Biomedical Elective 300/400 level	3	BMD-ENGR 325 Biomedical Systems Physiology	3		
BMD-ENGR 415 Bioelectromagnetics & Bioelectricity	3	BMD-ENGR 335 Biomedical Transport Phenomena	3		
MEC-ENGR 411 Intro to Biomechanics	3	Biomedical Elective	3		

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

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