



**Transfer Guide**  
**Associate of Arts – Liberal Arts & Sciences**  
**BS-Biomedical Engineering**



<b>KCKCC—Fall Semester 1</b>	<b>Hrs</b>	<b>KCKCC—Spring Semester 1</b>	<b>Hrs</b>	<b>KCKCC—Summer Semester 1</b>	<b>Hrs</b>
CHEM 111 College Chemistry I/Lab	5	CHEM 112 College Chemistry II/Lab	5	Humanities Course*	3
ENGL 101 Composition I	3	ENGL 102 Composition II	3		
MATH 122 Calculus I	5	MATH 123 Calculus II	5		
BLUE 101 Freshman Seminar	1	COMS 151 Public Speaking <b>OR</b> COMS 201 Interpersonal Communication	3		
Humanities Course*	3				
	<b>17</b>		<b>16</b>		<b>3</b>

<b>KCKCC—Fall Semester 2</b>	<b>Hrs</b>	<b>KCKCC—Spring Semester 2</b>	<b>Hrs</b>	<b>UMKC—Summer Semester 2</b>	<b>Hrs</b>
BIOL 135 Cell & Molecular Biology	4	NASC 246 Engineering Physics II	5	BIOLOGY 202 Cell Biology (at UMKC)**	3
Social Science Course^	3	Social Science Course^	3		
MATH 224 Calculus III	5	NASC 248 Statics	3		
NASC 245 Engineering Physics I	5	MATH 227 Differential Equations	3		
	<b>17</b>		<b>14</b>		<b>3</b>

<b>UMKC—Fall Semester 3</b>	<b>Hrs</b>	<b>UMKC—Spring Semester 3</b>	<b>Hrs</b>	<b>UMKC—Summer Semester 3</b>	<b>Hrs</b>
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 216 Engineering Computation	4	MEC-ENGR 285 Dynamics	3		
E&C-ENGR 380/381 Signals & Systems/Lab	4	Biomedical Engineering Elective	3		
	<b>15</b>		<b>14</b>		

<b>UMKC—Fall Semester 4</b>	<b>Hrs</b>	<b>UMKC—Spring Semester 4</b>	<b>Hrs</b>	<b>UMKC—Summer Semester 4</b>	<b>Hrs</b>
MEC-ENGR 492 Mech Design Synthesis I	3	BMD-ENGR 495WI Biomedical Capstone Design	3		
MEC-ENGR 406 Intro to Biomaterials	3	BMD-ENGR 315 Biomed Instrumentation	3		
BMD-ENGR 415 Bioelectromagnetics & Bioelectricity	3	BMD-ENGR 325 Biomedical Systems Physiology	3		
MEC-ENGR 411 Intro to Biomechanics	3	BMD-ENGR 335 Biomedical Transport Phenomena	3		
Biomedical Engineering Elective 300/400	3	Biomedical Engineering Elective 300/400	3		
	<b>15</b>		<b>15</b>		

\*Students must take 6 hours from three different disciplines: Art/Humanities, History, Literature, Music, Philosophy or Theater, excluding performance courses.

^Students must take 6 hours from two different disciplines: Anthropology, Economics, Geography, Political Science, Psychology or Sociology.

\*\*Please note BIOL 135 Cell & Molecular Biology at KCKCC and BIOLOGY 202 Cell Biology at UMKC are not the same course.