

Dual Degree Program BS Math BS Electrical & Computer Engineering

Baker—Fall Semester 1	Hrs	Baker—Spring Semester 1	Hrs	Baker—Summer Semester 1	Hrs
MA 171 Calculus I	4	MA 172 Calculus II	4		
PC 225 General Physics I	4	PC 226 General Physics II	4		
BC 110 Freshman Seminar I	3	Social Sciences Core	3		
BK 101 Baker Experience	1	BC 120 Freshman Seminar II	3		

Baker—Fall Semester 2	Hrs	Baker—Spring Semester 2	Hrs	Baker—Summer Semester 2	Hrs
MA 281 Linear Algebra	4	MA 271 Calculus III	4		
CH 137/L General Chemistry I/Lab	4	MA 291 Introduction to Higher Mathematics	3		
CS 175 Introduction to Computer Science	4	MA 345 Problem Seminar in Mathematics	3		
Creative Arts Core	3	PC 381 Statics	3		

Baker—Fall Semester 3	Hrs	Baker—Spring Semester 3	Hrs	UMKC—Summer Semester 3	Hrs
MA 372 Differential Equations	3	Creative Arts Core	3		
MA 362 OR MA 383 OR MA 491	3	MA 445 Senior Seminar in Mathematics	3		
Humanities Core	3	300-400 Level Mathematics Elective**	3		
Social Sciences Core	3	300-400 Level Mathematics Elective	3		
CS 180 C++	2				

Baker—Fall Semester 4	Hrs	UMKC—Spring Semester 4	Hrs	UMKC—Summer Semester 4	Hrs
300-400 Level Mathematics Elective	3	ECE 226/227 Logic Design/Lab	4	ECE 276/277 Circuit Theory I/Lab	4
World Languages Requirement	4	ECE 216 Engineering Computation	4		
Core Capstone	3	ECE 341R Applied Engineering Analysis II	3		
Humanities Core	3	ECE 348 Discrete Mathematics & Probability	3		

UMKC—Fall Semester 5	Hrs	UMKC—Spring Semester 5	Hrs	UMKC—Summer Semester 5	Hrs
ECE 334 Semiconductors & Devices	3	ECE 302/303 Electromagnetic Waves & Fields/Lab	4		
ECE 376/377 Circuit Theory II/Lab	4	ECE 330/331 Electronic Circuits/Lab	4		
ECE 380 Signals & Systems/Lab	4	ECE 428R/429 Embedded Systems/Lab	4		
ECE 426/427 Microcomputer Architecture/Lab	4	ECE 466 Power Systems	3		

UMKC—Fall Semester 6	Hrs	UMKC—Spring Semester 6	Hrs	UMKC—Summer Semester 6	Hrs
ECE 358 OR ECE 474	3	ME 130 Engineering Graphics	3		
ECE 402 Senior Design I	3	CS 304 Ethics & Professionalism	3		
ECE 486 Pattern Recognition	3	ECE 228/229 Computer Design/Lab	4		
ECE Elective (400 level)**	3	ECE 403 Senior Design II	2		
ECE Elective (400 level)	3				

*Students can count an approved 300-400 Baker Math course as one of the required upper-level ECE electives at UMKC.

**Students can count an approved 400-level UMKC ECE course as one of the required upper-level Math electives at Baker.

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