



Dual Degree Program
BS Physics
BS Electrical/Computer Engineering



Millikin—Fall Semester 1		Millikin—Spring Semester 1		Millikin—Summer Semester 1	
	Hrs		Hrs		Hrs
MA 140 Calculus I	4	MA 240 Calculus II	4		
IN 140 University Seminar	3	Humanities in the United States	3		
EN 181 University Writing	3	ICS/Historical Studies	3		
CH 121/151 General Chemistry with Lab	4	PY 152/172 University Physics II	4		
PY 151/171 University Physics I	4	Social Sciences in the United States	3		

Millikin—Fall Semester 2		Millikin—Spring Semester 2		Millikin—Summer Semester 2	
	Hrs		Hrs		Hrs
PY 262 Experimental Physics I	4	PY 362 Experimental Physics II	4		
ICS	3	MA 303 Linear Algebra	3		
MA 340 Calculus III	3	MA 305 Differential Equations	3		
MA 208 Discrete Math	3	MA 313 Numerical Analysis	3		
EN 281 Writing in the Disciplines	3	CO 200 Public Speaking	3		

Millikin —Fall Semester 3		UMKC —Spring Semester 3		UMKC—Summer Semester 3	
	Hrs		Hrs		Hrs
CS 135 Intro to Computer Science	3	ECE 217 Engineering Computation*	2		
Global Issues/Literature	3	ECE 226/227 Logic Design/Lab	4		
PY 253 Modern Physics	4	ECE 276 Circuit Theory I	3		
Creative Arts	3	ECE 341R Applied Engineering Analysis II	3		
PY 352 Classical Dynamics	3	ME 130 Engineering Graphics	3		

UMKC—Fall Semester 4		UMKC—Spring Semester 4		UMKC—Summer Semester 4	
	Hrs		Hrs		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 5		UMKC—Spring Semester 5		UMKC—Summer Semester 1	
	Hrs		Hrs		Hrs
ECE 358 OR ECE 474	3	CS 304 Ethics & Professionalism	3		
ECE 402 Senior Design I	3	ECE 228/229 Computer Design/Lab	4		
ECE 416 Neural & Adaptive Systems	3	ECE 403 Senior Design II	2		
ECE Elective (400 level)	3				
ECE Elective (400 level)	3				

*If students cover C++ languages in a programming course, they are exempt from ECE 217.

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