



**Dual Degree Program  
BS Applied Mathematics  
BS Civil Engineering**



St. Mary's—Fall Semester 1		St. Mary's—Spring Semester 1		St. Mary's—Summer Semester 1	
	Hrs		Hrs		Hrs
EN 111 English Composition I	3	MA 244 Calculus II	4		
MA 243 Calculus I	4	PHY 315 Engineering Physics I	4		
TH 112 Intro to Spirituality	3	EN 112 English Composition II	3		
CH 220 General Chemistry I	3	EG 250 Graphics for Engineers	3		
Humanities General Education	3	COM 120 or COM 125	3		

St. Mary's—Fall Semester 2		St. Mary's—Spring Semester 2		St. Mary's—Summer Semester 2	
	Hrs		Hrs		Hrs
PHY 316 Engineering Physics II	4	EG 315 Thermodynamics	3		
MA 345 Calculus III: Multivariable	4	EG 320 Strength of Materials	3		
EG 300 Statics	3	MA 346 Differential Equations	3		
MA 330 Introductory Statistics	3	MA 364 Linear Algebra	3		
		MA 437 Probability & Statistics	3		

St. Mary's —Fall Semester 3		St. Mary's —Spring Semester 3		St. Mary's—Summer Semester 3	
	Hrs		Hrs		Hrs
MA 272 Mathematical Reasoning	3	EG 310 Dynamics	3		
CIS 254 Data Structures	3	MA 471 Mathematical Modeling	3		
Arts General Education	3	Humanities General Education	3		
Social/Behavioral Science General Education	3	Social/Behavioral Science General Education	3		
BI 200 Principles of Biology I	4	Theology General Education	3		

UMKC—Fall Semester 4		UMKC—Spring Semester 4		UMKC—Summer Semester 4	
	Hrs		Hrs		Hrs
CE 111 First Year Cornerstone	1	CE 378WI Civil Engineering Materials	3		
ME 351 Fluid Mechanics	3	CE 497 Engineering Hydrology	3		
CE 321 Structural Analysis	4	CE 323 Structural Steel Design	3		
CE 335 Soil Mechanics	3	ECE 216 Engineering Computation	4		
CE 467 Construction Management	3	MATH 345L Ordinary Differential Equations Lab	1		
CE 113 Engineering Measurements	1	CE 190 Special Topics	1		

UMKC—Fall Semester 5		UMKC—Spring Semester 5		UMKC—Summer Semester 1	
	Hrs		Hrs		Hrs
CE 411 System Design I	3	CE 412 System Design II	3		
CE 432 Foundation Engineering	3	CE 341 Intro to Environmental Engineering	3		
CE 422WI Reinforced Concrete	3	CE 481 Intro to Transportation Design	3		
CE Elective 3XX-4XX	3	CE Elective 3XX-4XX	3		
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