

PROGRAM NAME: Civil Engineering
 PROGRAM COLLEGE: College of Health and Human Services
 CATALOG TERM: 2018-2019

NOTE: Individual Programs of Study will vary in consultation with your Advisor and course/section availability each term. The below schedule serves only as an **example** four year degree plan.

YEAR 1

Fall Semester

Course Name	Credits	Minimum Grade Required	Experience Notes
Core: Written Communication (WCP)	3		<ul style="list-style-type: none"> Participate in the Finucane Service Project
MT 1800 Calculus I (MTP)	4	C	
CH 2610 General Chemistry I	3	C	
CH 2620 General Chemistry Laboratory I	1	C	
NS 1010 Introduction to the Engineering and Computing Program	1		
ME 130 Engineering Graphics with Lab (UMKC)	3	C	
Core: Artistic Mode (ARI)	3		
TOTAL HOURS	18		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: Oral Communication (OCP)	3		<ul style="list-style-type: none"> Complete 15 service hours for year 1 Join an Engineering Club at Rockhurst or UMKC Begin Looking for internships
Core: Philosophical Mode Lv I (PLI)	3		
Core: Literary Mode Lv I (LTI)	3		
MT 1810 Calculus II	4	C	
PH 2850 Physics for Scientists and Engineers I (SCI)	3	C	
PH 2860 Physics for Scientists and Engineers Laboratory I (SCI)	1	C	
CIMM 101 Machine Shop Safety (MCC)	1	C	
TOTAL HOURS	18		

YEAR 2

Fall Semester

Course Name	Credits	Minimum Grade Required	Notes
PH 2940 Physics for Scientists and Engineers II (SCII)	3	C	
PH 2920 Physics for Scientists and Engineers Laboratory II (SCII)	1	C	
MT 2800 Calculus III	4	C	
PH 3500 Statics	3	C	
ME 219 Computer Programming for Engineers (UMKC)	3	C	
BL 1250 General Biology I	3	C	
BL 1251 General Biology I Laboratory	1	C	
TOTAL HOURS	18		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
MT 3700 Differential Equations	3	C	<ul style="list-style-type: none"> Apply for summer internships Complete 15 service hours for year 2
PH 3400 Thermodynamics	3	C	
PH 4000 Electric Circuits	3	C	
PH 4100 Dynamics	3	C	
PH 4320 Strength of Materials	3	C	
ANCH 203 The Technology Enterprise (UMKC)	3	C	
TOTAL HOURS	18		

YEAR 3

Fall Semester

Course Name	Credits	Minimum Grade Required	Notes
MT 3400 Probability and Statistics I	3	C	<ul style="list-style-type: none"> Continue applying for summer internships
CE 321 Structural Analysis (UMKC)	4	C	
CE 351 Fluid Mechanics (UMKC)	3	C	
CE 335 Soil Mechanics (UMKC)	3	C	
CE 467 Introduction to Construction Management (UMKC)	3	C	
TOTAL HOURS	16		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
MT 3810 Linear Algebra	3	C	<ul style="list-style-type: none"> Apply for summer internships Complete 15 service hours for year 3
CD 323 Steel Design (UMKC)	3	C	
CE 342 Water and Wastewater (UMKC)	3	C	
CE 357 Engineering Hydraulics (UMKC)	3	C	
CE 378WI Civil Engineering Materials (UMKC)	3	C	
Core: Philosophical Mode Lv II (PLII)	3		
TOTAL HOURS	18		

YEAR 4

Fall Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: Historical Mode Lv I (HSI)	3		
Core: Theological Mode Lv I (THI)	3		
Core: Scientific-Relational Mode Lv I (SRI)	3		
CE 411 System Design I (UMKC)	2	C	
CE 481 Highway and Traffic Engineering (UMKC)	3	C	
CE 4XX Technical Elective (UMKC)	3	C	

TOTAL HOURS	17		
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Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
Core: Theological Mode Lv II (THII)	3		Complete a total of 60 service hours before graduation.
Core: Philosophical Mode or Theological Mode Lv II (PLII or THII)	3		
Core: Historical Mode or Literary Mode Lv II and Global Perspectives (HSII or LTII and GPR)	3		
Core: Scientific-Relational Mode Lv I or Lv II (SRI or SRII)	3		
CE 412 System Design II (UMKC)	3	C	
CE 4XX Technical Elective (UMKC)	3	C	
TOTAL HOURS	18		

Credit Hours

- Core: 51 hours
- Major: 102 hours

TOTAL Credit Hours: 141