

PROGRAM NAME: Mechanical 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
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
Core: Philosophical Mode Lv II (PLII)	3		<ul style="list-style-type: none"> Begin Looking for internships
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	
TOTAL HOURS	17		

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
ME 324 Engineering Materials with Lab (UMKC)	4	C	
ME 351 Fluid Mechanics (UMKC)	3	C	
ME 356 Mechanical Component Design (UMKC)	3	C	
ME 360 Thermal System Design (UMKC)	3	C	
TOTAL HOURS	16		

Spring Semester

Course Name	Credits	Minimum Grade Required	Notes
ME 306 Computer Aided Engineering (UMKC)	3	C	<ul style="list-style-type: none"> Apply for summer internships Complete 15 service hours for year 3
ME 385 System Dynamics (UMKC)	3	C	
ME 352 Instruments and Measurements Lab I (UMKC)	5	C	
ME 399 Heat and Mass Transfer (UMKC)	3	C	
ME 380 Manufacturing Methods (UMKC)	3	C	
TOTAL HOURS	17		

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		
ME 415 Feedback Control Systems (UMKC)	3	C	
ME 492 Mechanical Design Synthesis I (UMKC)	3	C	
ME 451 Power Plant Design (UMKC)	3	C	
TOTAL HOURS	18		

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		
ME 4XX Technical Elective (UMKC)	3	C	
ME 496 Mechanical Design Synthesis II (UMKC)	3	C	
TOTAL HOURS	18		

Credit Hours

- Core: 51 hours
- Major: 101 hours

TOTAL Credit Hours: 140