

Four Year Graduation Plan – Courses & Critical Benchmarks:

The following is a sample course of study. It is the Student's responsibility to ensure that all program requirements are met. This guide is not a substitute for academic advisement. For more information see the University Catalog at umkc.edu/catalog.

Your path to graduation may vary based on factors such as college credit you earned while in high school, transfer work from other institutions of higher learning, and placement in Mathematics. You are responsible for checking prerequisites to any courses. Critical Courses and minimum recommended grades (as noted below) provide feedback regarding major fit and help indicate likelihood of successful completion of chosen academic program and degree.

Please Note: Completing ENGLISH 110 (English Comp I) or COMM-ST 110 (Speech) or equivalents; SAT verbal 690; ACT English 30 or AP English Language/composite score of 4.2 **will waive the DISC 100 requirement.**

Students must have successfully passed (with a "B" or better) Pre-calculus or a combination of a College Algebra and Trigonometry or have taken four (4) units of high school mathematics including trigonometry in high school to be prepared for major math sequence. **Students who do not place into MATH 266: Accelerated Calculus I may have to complete preparatory math coursework, adding 3 – 8 hours to the total hours required for the degree.**

First Math Course:	MATH 266 Accelerated Calculus I	Foreign Language Requirement:	None	Free Choice Elective Hours:	None
---------------------------	---------------------------------	--------------------------------------	------	------------------------------------	------

Critical Course	Course Subject, Number, & Title and Academic Plan Benchmarks Bold = UMKC General Education Core requirement ** Co-Requisite Enrollment Required	Min. Rec. Grade	Credit Hours	Notes
Fall Semester Year 1: 16 hours				
◆	**CHEM 211/211L General Chemistry plus Lab	B	5	¹ Enrollment restricted. Must take ALEKS Math Placement Exam or show prerequisite requirement has been met prior to enrolling. ² If DISC 100 is waived, MEC-ENGR 130 recommended.
◆	MATH 266 Accelerated Calculus I ¹	B	4	
	**DISC 100 Reasoning & Values ² (Speech & Writing) Click for options		3	
	**ANCHOR I Reasoning & Values Click for Options (ANCH 150 Computing & Engineering in Society Recommended)		3	
	Complete Shop Safety Course (see advisor for options)		1	
Complete 16 term credit hours. Must earn minimum 2.00 term and cumulative GPA.				
Spring Semester Year 1: 17 hours				
◆	MATH 268 Accelerated Calculus II	B	3	³ PHYSICS 240 Required for degree, may not substitute PHYSIC 210. ⁴ HISTORY 101, 102, or POL-SCI 210 meet both Focus C & Missouri Constitution Requirements.
◆	PHYSICS 240 Physics for Science & Engineering I ³ (Focus B)	B	5	
	MEC-ENGR 130 Engineering Graphics		3	
	CIV-ENGR 111 First Year Cornerstone		3	
	Focus C Human Values & Ethical Reasoning Click for options (HISTORY 101, 102, or POL-SCI 210 recommended) ⁴		3	
Complete 17 term credit hours. Must earn minimum 2.00 term and cumulative GPA.				
Summer Semester Year 1: 0 hours				
Complete 33 hours towards degree. Maintain 2.00 minimum GPA. Complete ANCHOR I & DISC 100.				May use summer term to lighten fall or spring course loads, or to catch-up on math coursework.

Fall Semester Year 2: 16 hours				
◆	MATH 250 Calculus III	B	4	Take the RooWriter Assessment after completing DISC 200 and before reaching 90 credit hours. ⁵ PHYSICS 250 Required for degree, may not substitute PHYSIC 220.
◆	CIV-ENGR 275 Engineering Statics	B	3	
	E&C-ENGR 216 Engineering Computation		4	
◆	PHYSICS 250 Physics for Science & Engineering II ⁵ (Focus Elective)	B	5	
Complete 16 term credit hours. Must earn minimum 2.00 term and cumulative GPA.				
Spring Semester Year 2: 16 hours				
◆	MATH 345 Differential Equations	B	4	
◆	CIV-ENGR 276 Strength of Materials	B	3	
	CIV-ENGR 351 Fluid Mechanics		3	
	**DISC 200 Culture & Diversity (Speech & Writing) Click for options		3	
	**ANCHOR II Culture & Diversity Click for options (ANCH 203 The Technology Enterprise Recommended)		3	
Complete 16 term credit hours. Must earn minimum 2.00 term and cumulative GPA.				
Summer Semester Year 2: 3 hours				
Complete 65 credit hours towards degree. Complete ANCHOR II & DISC 200 Maintain 2.00 minimum GPA.				May use summer term to lighten fall or spring course loads, or to catch-up on math coursework.
Fall Semester Year 3: 17 hours				
	CIV-ENGR 319 Engineering Computation & Statistics		3	
	CIV-ENGR 321 Structural Analysis		4	
	CIV-ENGR 378WI Civil Engineering Materials		3	
	CIV-ENGR 467 Construction Management		3	
	CIV-ENGR 401SV Fundamentals of Surveying		1	
	Focus A Arts & Humanities Click for options		3	
Complete 17 term credit hours. Must earn minimum 2.00 term and cumulative GPA.				
Spring Semester Year 3: 16 hours				
	CIV-ENGR 335 Soil Mechanics		3	Complete the Fundamentals of Engineering (FE) exam . Complete the ETS Proficiency Profile . Apply for graduation . ⁵ HISTORY 101, 102, or POL-SCI 210 meet both Focus C & Missouri Constitution Requirements.
	CIV-ENGR 318 Geographic Info Sys for Engineers		3	
	CIV-ENGR 497 Engineering Hydrology		3	
	CIV-ENGR 3XX OSHA Safety		1	
	CIV-ENGR 3XX/4XX Elective Click for options		3	
	CIV-ENGR 3XX/4XX Elective Click for options		3	
Complete 16 term credit hours. Must earn minimum 2.00 term and cumulative GPA.				
Summer Semester Year 3: 0 hours				
Complete 98 credit hours towards degree. Complete RooWriter Assessment Maintain 2.00 minimum GPA.				May use summer term to lighten fall or spring course loads.

Fall Semester Year 4: 14 hours				
	CIV-ENGR 411 System Design I		2	Complete Senior Exit Survey.
	CIV-ENGR 422WI Reinforced Concrete		3	
	CIV-ENGR 432 Foundation Engineering		3	
	CIV-ENGR 3XX/4XX Elective Click for options		3	
	CIV-ENGR 3XX/4XX Elective Click for options		3	
Complete 14 term credit hours. Must earn minimum 2.00 term and cumulative GPA.				
Spring Semester Year 4: 15 hours				
	CIV-ENGR 3XX/4XX Elective Click for options		3	
	CIV-ENGR 3XX/4XX Elective Click for options		3	
	CIV-ENGR 3XX/4XX Elective Click for options		3	
	ANCHOR 311 System Design II		3	
	DISC 300 Civic & Community Engagement		3	
Complete 15 term credit hours. Must earn minimum 2.00 term and cumulative GPA.				

Graduation Requirements Summary					
Total Hours	Total Hours at UMKC	Upper Lvl Hrs in Major at UMKC	Total Upper Level (300/400) hours	Major GPA	UMKC GPA
127	30 minimum	12 minimum	36 minimum	2.00 minimum	2.00 minimum

Other Information

A minimum of 30 hours must be earned at the University of Missouri-Kansas City, regardless of the number and level of hours earned at another institution. Undergraduate degree-seeking students are required to earn credit in at least 36 credit hours of coursework numbered 300 and above at UMKC. In the case of transfer credit, the coursework must be numbered as junior-senior level work by the transferring institution.

Non-course requirements	Met
RooWriter Assessment	_____
Fundamentals of Engineering Exam	_____
ETS Proficiency Profile	_____
Civil Engineering Department Senior Exit Degree Completion Survey	_____

Policy

The University reserves the right to make changes in courses and course schedules without notice. Students are expected to maintain a quality of achievement significantly above minimum UMKC standards for degree work. Individual student progress will be monitored throughout the program. Satisfactory progress is required of all students for retention in the program. Students are expected to maintain academic standards, perform satisfactorily in courses, refrain from academic dishonesty, comply with the established University requirements, and refrain from unethical or unprofessional behavior or behaviors that obstruct the training process or threaten the welfare of the student or others. Other circumstances involving student behavior will be addressed by the faculty on an individual basis.

Advising Contact Information

UMKC School of Computing & Engineering
DST Student Services Center
336 Flarsheim Hall
5110 Rockhill Road
Kansas City MO 64110

816-235-2399

sce@umkc.edu

<http://sce.umkc.edu>

Career Opportunities

UMKC Career Services – career.umkc.edu | 816-235-1636 | 2nd Floor, Atterbury Student Success Center

O*Net OnLine – OnetOnline.org Learn about careers related to your major, income potential, and more.