

BACHELOR OF SCIENCE IN ELECTRICAL & COMPUTER ENGINEERING, 2018-19

For more information about policies and requirements, please see the [UMKC 2018-19 Catalog](#).

FIRST YEAR

FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS
MATH 210 Calculus I (FOCUS B)	4	MATH 220 Calculus II	4
Life Science with Lab	4-5	PHYS 240 Physics for Science & Engineering I (FOCUS Elective)	5
Anchor I Reasoning and Values Recommend: ANCH 150 Computing, Engineering & Society	3	Anchor II Culture and Diversity	3
DISC 100 Discourse I	3	DISC 200 Discourse II	3
ECE 130 Engineering Graphics	3		
TOTAL	17-18	TOTAL	15

SECOND YEAR

FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS
ECE 216 Engineering Computation	4	ECE 228 Intro to Computer Design	3
ECE 226 Logic Design	3	ECE 229 Intro to Computer Design Lab	1
ECE 227 Logic Design Lab	1	ECE 250 Engineering Mechanics & Thermodynamics	3
ECE 241 Applied Engineering Analysis I	3	ECE 276 Circuit Theory I	3
		ECE 277 Circuit Theory I Lab	1
PHYS 250 Physics for Science & Engineering II	5	ECE 341R Applied Engineering Analysis II	3
		CS 394R Applied Probability	3
TOTAL	16	TOTAL	17

THIRD YEAR

FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS
ECE 334 Semiconductors & Devices	3	ECE 302 Electromagnetic Waves & Fields	3
ECE 376 Circuit Theory II	3	ECE 303 Electromagnetic Waves & Fields Lab	1
ECE 377 Circuit Theory II Lab	1	ECE 330 Electronic Circuits	3
ECE 380 Signals & Systems	3	ECE 331 Electronic Circuits Lab	1
ECE 381 Signals & Systems Lab	1	ECE 420 Advanced Engineering Computation	2
ECE 426 Microcomputer Architecture	3	ECE 428R Embedded Systems	3
ECE 427 Microcomputer Architecture Lab	1	ECE 429 Embedded Systems Lab	1
		ECE 466 Intro to Power Systems	3
TOTAL	15	TOTAL	17

FOURTH YEAR

FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS
ECE 358 OR 474 Intro to Control Systems OR Intro to Communication Systems	3	FOCUS C Human Values and Ethical Reasoning Recommend: HIST 101, 102, or POLS-SCI 210 to fulfill the Constitution Requirement	3
ECE 402 Senior Design I	2	FOCUS A Arts & Humanities	3
ECE 4XX ECE Elective (400-level)	3	ECE 403 Senior Design II	1
ECE 4XX ECE Elective (400-level)	3	ECE 4XX ECE Elective (400-level)	3
ANCH 308 (CS 304WI) Ethical Issues in Computing & Engineering	3	ECE 4XX ECE Elective (400-level)	3
DISC 300 Discourse III	3		
TOTAL	17	TOTAL	13

Total Credits to Graduate: 128