



Electrical engineers may work in circuit design, electronic devices, electrical and optical communications, control and automation, electromagnetics, instrumentation, energy and power, or signal processing. Electrical engineers may work in telecommunications, consumer electronics, or public utility companies; government agencies; and defense-related or consulting firms.

- Admission to The University of Kansas is required, along with the following, for admission to the KU School of Engineering as a transfer student:
 - 2.5+ cumulative college GPA
 - C or better in MATH 125 Calculus I, or its direct equivalent (MATH 241 Calculus I* at JCCC)
 - C or better in all math, science and engineering coursework
- The School of Engineering recommends that students apply for transfer admission to KU by May 1 for summer and fall; December 1 for spring.
- Admission is selective. Meeting minimum requirements does not guarantee admission.
- Timely completion of prerequisite courses is imperative due to tight sequencing of major courses. Consult KU catalog and seek KU advising early.
- The B.S. in Electrical Engineering is an ABET accredited program.
- A total of 128 credit hours is required for the B.S. in Electrical Engineering.
- Sixty-four credits may be transferred to KU from community colleges. The last 30 hours of course work must be completed at KU. A minimum of 45 upper-level hours must be completed at KU.
- Transfer students will have their applications to the School of Engineering evaluated on a case-by-case basis and must have a minimum GPA of 2.5 to be considered.
- Transfer credits must have a grade of "C" or higher to be applied toward the degree.
- Upper Level Eligibility: In addition to prerequisites and co-requisites, EECS undergraduates are required to earn *Upper Level Course Eligibility* by attaining grades of C or better (C- does not qualify) in each of the following 15 courses: GE 2.1 (both), PHSX 210 & 216, MATH 125, 126, 127, 220, 290, EECS 101, 140, 168, 202, 212, 221, CHEM 130 or 150. If students earn less than a C in any of the above listed courses, they must repeat the course at the next available opportunity and must **not** take a course for which that course is a prerequisite. It is the *students' responsibility* to contact their advisors *before beginning the new semester* regarding any required repetitions and the associated enrollment adjustments (drops and adds). To enroll in *any* upper-level EECS course (numbered 300 and above), students must have fulfilled the *Upper Level Eligibility Requirements* detailed above.
- Pass/Fail policy: only accepted for KU Core GE 2.1 Written Communication, GE 2.2 Oral Communication, GE 3H Humanities, GE 3S Social Sciences, AE 4.1 Human Diversity, AE 4.2 Global Awareness, and AE 5 Social & Ethical Responsibility. If an Engineering department recommends that certain course work be used to fulfill any of these requirements, those courses must be taken for an "A"-"F" grade.

KU Core Requirements The KU Core comprises three general education goals and three advanced education goals. The general education goals are best met early in a student's career. The advanced education goals are most appropriately acquired using the foundation of knowledge gained from the general education goals and progression through the major. Courses can be used to satisfy one Core goal at a time, but may satisfy a major requirement and a core goal. To learn more about courses that satisfy the KU Core visit:

<https://credittransfer.ku.edu/>

Program Requirements

KU Courses	Hrs	JCCC Courses	Hrs	KU Core
Communications				
ENGL 101 Composition	3	ENGL 121 Composition I*	3	GE 2.1
ENGL 102 Critical Reading and Writing	3	ENGL 122 Composition II*	3	GE 2.1
COMS 130 Speaker-Audience Communication	3	COMS 121 Public Speaking	3	GE 2.2
Arts/Humanities/Social Science				
ECON 144 Principles of Macroeconomics OR ECON 142 Principles of Microeconomics	3	ECON 230 Principles of Macroeconomics OR ECON 231 Principles of Microeconomics	3	GE 3S
KU Core Goal GE 3H Arts & Humanities	3	See list for Goal GE 3H	3	GE 3H
Mathematics				
MATH 125 Calculus I	4	MATH 241 Calculus I*	5	GE 1.2
MATH 126 Calculus II	4	MATH 242 Calculus II*	5	N/A
MATH 127 Calculus III	4	MATH 243 Calculus III*	5	N/A
MATH 220 App. Differential Equations	3	MATH 254 Differential Equations*	4	N/A
MATH 290 Elementary Linear Algebra	2	MATH 246 Elementary Linear Algebra*	3	N/A
Basic Science				
CHEM 130 General Chemistry I	5	CHEM 124/125 General Chemistry I*/Lab*	4/1	GE 3N
PHSX 210 [^] /216 General Physics I/Lab	3/1	PHYS 220 Engineering Physics I* [^]	5	GE 1.1
Additional required courses will be taken at KU.				
Electrical Engineering				
EECS 168 Programming I	4	CS 200 Concepts of Programming Algorithms Using C++* OR CS 202 Concepts of Programming Algorithms using Python* OR CS 205 Concepts of Programming Algorithms Using Java*	4 4 4	N/A
Additional required courses will be taken at KU.				
KU Core Goal AE 4.1 Human Diversity	3	See list for Goal AE 4.1	3	GE 4.1
KU Core Goal AE 4.2 Global Perspective	3	See list for Goal AE 4.2	3	GE 4.2
Professional Electives – will be taken at KU. See catalog to select 2 courses from the approved list of technical, scientific, and professional courses.				

*JCCC course has a prerequisite or corequisite.

[^]PHSX 211 (PHYS 220 at JCCC) satisfies the PHSX 210 requirement for Engineering at KU.

It is the STUDENT'S RESPONSIBILITY to check for updates to all transfer information. This transfer guide is provided as a service and is updated as needed. Degree requirements at the four-year colleges are subject to change by those institutions. To ensure you have the most accurate up to date information about the program, it is imperative you meet with an advisor at the transfer institution.