

Electrical Engineering Generated 11/14/2025 15:02:09

Electrical Engineering

University of Kansas

Johnson County Community College Transfer Program to the University of Kansas	School of Engineering
School of Engineering	785-864-3881 or 785-864-4620
Electrical Engineering, B.S.	kuengr@ku.edu
Academic Year 2025-2026	http://www.eecs.ku.edu/

Program Description

Students interested in KU's Engineering programs need to work closely with advisors at both JCCC and KU. This helps students stay on track and not prolong the time it takes to earn an engineering bachelor's degree from KU. Students are advised to complete the Kansas Systemwide General Education requirements, and the prerequisite courses listed on the transfer guide. Students are also encouraged to use the Reverse Transfer (https://www.jccc.edu/student-resources/transfer/) option (if eligible) after transferring to KU. Reverse Transfer (https://www.jccc.edu/student-resources/transfer/) allows students to earn their associate degree from JCCC while working towards their bachelor's degree at KU. 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.



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Admission Requirements

- · 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.
- A maximum of 75 hours may be transferred to KU from community colleges. Students should be aware that 45 junior/senior credit hours are
 required for completion of the bachelor's degree; the last 30 hours of course work must be at KU; and community college courses do not
 transfer as junior/senior hours.
- 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 16 courses: Core 34: English (both), EPHX 210 & PHSX 216, MATH 125, 126, 127, 220, 290, EECS 101, 140, 168, 202, 212, 220, 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. Exceptions: EECS 312, EECS 330, EECS 361, and EECS 388, may be taken in the same semester as students are completing their upper-level eligibility. Students may also petition for a Partial Waiver of Upper Level Eligibility Requirements by completing the appropriate petition (http://www.eecs.ku.edu/).
- Credit/No Credit: For EECS majors, courses used to fulfill the KU Core 34 in Communications, Social & Behavioral Sciences, Arts & Humanities, U.S. Culture, and Global Culture accept Credit/No Credit.
- Students transferring to KU, that complete the General Education requirements required for the Associate of Arts (AA) (https://catalog.jccc.edu/degreerequirements/associate-fine-arts/) or Associate of Science (AS) (https://catalog.jccc.edu/degreerequirements/associate-science/) degree from JCCC will be considered to have satisfied KU's Core 34 general education curriculum.
- Students who transfer to KU, without completing the General Education requirements required for the Associate of Arts (AA) (https://catalog.jccc.edu/degreerequirements/associate-arts/), Associate of Fine Arts (AFA) (https://catalog.jccc.edu/degreerequirements/associate-fine-arts/) or Associate of Science (AS) (https://catalog.jccc.edu/degreerequirements/associate-science/) degree will have courses evaluated on a course-by-course basis toward meeting KU requirements. To learn more about courses that satisfy KU Core 34 Requirements (https://catalog.ku.edu/core34/) and KU CredTran (https://credittransfer.ku.edu/).
- Visit the KU Core 34 General Education guide (https://nam12.safelinks.protection.outlook.com/?url=http%3A%2F %2Fnextcatalog.jccc.edu%2Ftransfer-guides%2Fku%2Fku-general-education&data=05%7C02%7Cskhalif2%40jccc.edu %7C506a4b607ca34eaa00fb08de158ef1c2%7C15244239dcf245e7aefd127b69fc5438%7C1%7C0%7C638971900858599422%7CUnknown %7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUslIYiOilwLjAuMDAwMClslIAiOiJXaW4zMilsIkFOljoiTWFpbCIslIdUljoyfQ%3D%3D %7C0%7C%7C%7C&sdata=b2O9VaVq9VFjN8MJkWQ4YCl60oq5GZXnn69Vpa2sSL0%3D&reserved=0) for JCCC equivalents.



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Program Requirements

Course Code	Course Title	Course Hours		Transfer Code	Transfer Title	Transfer Hours	
Code	Title	ŀ	Hours				
KU Core 34	-Pala datta a H						
Visit the KU Core 34 Encatalog.jccc.edu/transfercore34/) for JCCC equiv	r-guides/ku/ku-transfer-						
Visit the KU Core 34 Co catalog.jccc.edu/transfecore34/) for JCCC equiv	r-guides/ku/ku-transfer-						
Visit the KU Core 34 Co Behavioral Sciences (htt transfer-guides/ku/ku-tra equivalents. (Select two co – 6 hrs. total)							
Select one of the follow	wing:						
ECON 230	Principles of Macroeconomics +	3		ECON 144	Priniciples of Macroeconomics	3	
ECON 231	Principles of Microeconomics +	3		ECON 142	Principles of Microeconomics	3	
catalog.iccc.edu/transfe	valents. (Select two courses in						
Visit the KU Core 34 US catalog.jccc.edu/transfercore34/) for JCCC equiv							
Visit the KU Core 34 Glocatalog.jccc.edu/transfercore34/) for JCCC equiv							
Mathematics							
Select one of the follow	wing:						
MATH 241	Calculus I* *#	5		MATH 125	Calculus I	4	
MATH 231	Business and Applied Calculus I*	3		MATH 115	Calculus I	3	
MATH 232	Business and Applied Calculus II*	3		MATH 116	Calculus II	3	
MATH 242	Calculus II*	5		MATH 126 Calculus II+			
MATH 243	Calculus III*	5		MATH 127 Calculus III+			
MATH 246	Elementary Linear Algebra*	3		MATH 290	Elementary Linear Algebra	2	
MATH 254	Differential Equations*	4		MATH 220	Analytic Geometry Calc I	4	
Basic Science							
CHEM 124 & CHEM 125	General Chemistry I Lecture* and General Chemistry I Lab*	5		CHEM 130	General Chemistry I	5	
PHYS 220	Engineering Physics I*	5		PHSX 211 General Phys General Physics I#+ Lab			
Electrical Engineering							
Select one of the following:							



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CS 200	Concepts of Programming Algorithms Using C++*	4	EECS 168	Programming I	4
CS 202	Concepts of Programming Algorithms using Python*	4	EECS 168	Programming I	4
CS 205	Concepts of Programming Algorithms using Java*	4	EECS 168	Programming I	4

^{*} JCCC course has a prerequisite or corequisite.

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⁺ Must earn a grade of "C" or better.

[%] This course is a Recommended Core 34: Systemwide General Education course. This specific course is not required but is recommended by the program's faculty.

[#] This course is a Required Core 34: Systemwide General Education course. This program is approved by the Kansas Board of Regents to require this specific Core 34: Systemwide General Education course. If a student did not take this course, it must be taken in addition to other degree requirements.