Computer Science 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
Computer Science, B.S.	kuengr@ku.edu
Academic Year 2025-2026	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.**

Computer scientists may pursue the design, analysis, and implementation of computer algorithms; study the theory of programming methods and languages; or design and develop software systems. They also may work in artificial intelligence, database systems, parallel and distributed computation, human-computer interaction, computer graphics, operating systems, or computer systems analysis and administration. Computer scientists may work for software companies, government and defense, telecommunications, or consulting firms.

Admissions 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.
- 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 Computer Science is an ABET accredited program.
- A total of 126 credit hours is required for the B.S. in Computer Science.
- 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 13 courses: Core 34: English (both), EPHX 210, MATH 125, 126, 127, 290, EECS 101, 140, 168, 210, 268, 348.
- 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 UpperLevel 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-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 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%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIwLjAuMDAwMCIsIlAiOiJXaW4zMiIsIkFOIjoiTWFpbCIsIldUIjoyfQ%3D%3D%7C0%7C%7C%7C&sdata=b2O9VaVq9VFjN8MJkWQ4YCl60oq5GZXnn69Vpa2sSL0%3D&reserved=0) for JCCC equivalents.

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Program Requirements

KU General Education Core 34 & Mathematics

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	**Title**	**Hours**			
KU Core 34					
Visit the KU Core 34 English (https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/) for JCCC equivalents.					
Visit the KU Core 34 Communications (https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/) for JCCC equivalents.					
Visit the KU Core 34 Core 34 Social and Behavioral Sciences (https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/) for JCCC equivalents. (Select two courses in two different disciplines)					
Visit the KU Core 34 Arts and Humanities (https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/) for JCCC equivalents. (Select two courses in two different disciplines – 6 hrs. total)					
Visit the KU Core 34 US Culture (https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/) for JCCC equivalents.					
Visit the KU Core 34 Global Culture (https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/) for JCCC equivalents.					
Mathematics					
Select one of the following:					
MATH 241	Calculus I*	5	MATH 125 Calculus I#		
MATH 231	Business and Applied Calculus I*	3	MATH 115 Calculus I		
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
CS 210 & CS 211	Discrete Structures I* and Discrete Structures II*	6	EECS 210	Discrete Structures	4

Basic Science

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	**Title**	**Hours**			
PHYS 220	Engineering Physics I*	5	PHSX 211 General Physics I% AND PHSX 216 General Physics I Lab%		
Visit the KU Core 34 General Education guide for JCCC equivalents.					
Natural Science Elective: Any course fulfilling Core 34 NPS totaling 4 credit hours. May be fulfilled with 3 credit hours of NLEC and 1 credit hour of NLAB					

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Computer Science

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	**Title**	**Hours**			
Select one of the following:					
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		
CS 205	Concepts of Programming Algorithms using Java*	4	EECS 168	Programming I	4
Select one of the following:					
CS 250	Basic Data Structures using C++*	4	EECS 268	Programming II	4
CS 252	Basic Data Structures Using Python* (strongly recommended)	4	EECS 268	Programming II	4
CS 255	Basic Data Structures Using Java*	4	EECS 268	Programming II	4

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* JCCC course has a prerequisite or corequisite.

% This course is a Required major course and is also part of Core 34: Systemwide General Education. If this course is not taken to fulfill the Core 34:SGE requirement, it must be taken in place of elective hours.

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.

Last Approved Tue Oct 28 21:20:40 2025