



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.

- 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 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 64 credit hours may be applied to a KU degree 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, 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 *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/>

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.

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 Comm.	3	COMS 121 Public Speaking	3	GE 2.2
Arts/Humanities/Social Science				
KU Core Goal GE 3H Arts & Humanities	3	See list for Goal GE 3H	3	GE 3H
KU Core Goal GE 3S Social Sciences	3	See list for Goal GE 3S	3	GE 3S
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 290 Elementary Linear Algebra	2	MATH 246 Elementary Linear Algebra*	3	N/A
MATH 526 Applied Mathematical Statistics I	3	No equivalent	--	N/A
EECS 210 Discrete Structures	4	CS 210 Discrete Structures I* AND	3	N/A
		CS 211 Discrete Structures II*	3	
Basic Science				
PHSX 210 [^] /216 General Physics I/Lab	3/1	PHYS 220 Engineering Physics I* [^]	5	GE 1.1
Natural Science Elective – Any course designated GE 3N (except Basic Science reqs and any Physics course 210 & below).				
Choose one: CHEM 130 General Chemistry I OR CHEM 135 General Chemistry II OR GEOG 104/105 Introduction to Physical Geography/Lab OR GEOL 101 The Way the Earth Works	5 5 3/2 3	Choose one: CHEM 124/125 General Chemistry I*/Lab* OR CHEM 131/132 General Chemistry II*/Lab* OR GEOG 140/141 Physical Geography/Lab* OR GEOG 130 General Geology	4/1 4/1 3/2 5	GE 3N
Computer Science				
EECS 168 Programming I	4	CS 200 Concepts of Programming Algorithms Using C++* OR	4	N/A
		CS 202 Concepts of Programming Algorithms using Python* (recommended) OR	4	
		CS 205 Concepts of Programming Algorithms using Java*	4	
EECS 268 Programming II	4	CS 250 Basic Data Structures using C++* OR	4	N/A
		CS 252 Basic Data Structures Using Python* (recommended)	4	
Additional required courses will be taken at KU.				
Professional Elective – will be taken at KU. See catalog to select 3 hours from the approved list of technical, scientific, and professional courses.				
KU Core Goal AE 4.1 Diversity	3	See list for Goal AE 4.1	3	AE 4.1
KU Core goal AE 4.2 Culture	3	See list for Goal AE 4.2	3	AE 4.2

* JCCC course has a prerequisite or corequisite.

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