

Civil Engineering

University of Kansas

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| Johnson County Community College Transfer Program to the University of Kansas | School of Engineering |
| School of Engineering | 785-864-3881 or 785-864-3766 |
| Civil Engineering, B.S. | kuengr@ku.edu |
| Academic Year 2025-2026 | https://ceae.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. The 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.

Civil engineering (CE), the oldest and broadest of the divisions of engineering, implements a range of public and private projects for improving society's physical infrastructure and the environment. The civil engineer integrates scientific principles with engineering experience to plan, design, and construct networks of highways and railroads, airports, bridges and dams, environmental pollution control systems, industrial structures, water purification and distribution systems, and urban transportation systems that maintain, protect, and enhance the quality of life. Civil engineers are trained to consider the social effects as well as the physical and environmental factors that constrain the planning, design, construction, and operation of their projects. Environmental engineering, a technical specialization with its origins in civil engineering, is a growing discipline dedicated to the protection of the environment.

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 Application (<http://enr.ku.edu/admission/>) deadline for the School of Engineering is 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 Civil Engineering is an ABET accredited program.
- A total of 128 credit hours is required for the B.S. in Civil Engineering. Students may identify broad concentrations in either general civil engineering or environmental engineering. Within these, students may choose elective courses to permit additional exposure to selected areas of civil or environmental engineering such as transportation, structural, geotechnical, environmental, and water resource engineering. In environmental engineering, electives may be selected to focus on water quality and treatment, bioremediation, solid and hazardous wastes, air quality, and air pollution control.
- 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.
- Civil Engineering does not accept Credit/No Credit. This is not an option for any credits counting towards the degree.
- Students must take the Fundamentals of Engineering (FE) Exam prior to graduation.
- Students transferring to KU, that complete the General Education requirements required for the Associate of Arts (AA) (<https://catalog.jccc.edu/archives/2025-26/degreerequirements/associate-arts/>), Associate of Fine Arts (AFA) (<https://catalog.jccc.edu/archives/2025-26/degreerequirements/associate-fine-arts/>) or Associate of Science (AS) (<https://catalog.jccc.edu/archives/2025-26/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/archives/2025-26/degreerequirements/associate-arts/>), Associate of Fine Arts (AFA) (<https://catalog.jccc.edu/archives/2025-26/degreerequirements/associate-fine-arts/>) or Associate of Science (AS) (<https://catalog.jccc.edu/archives/2025-26/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://creditransfer.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%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUuIlYiOiIlwLjAuMDAwMCIslAIiOiJXaW4zMilslkFOLjoiTWFpbCllldUljoyfQ%3D%3D%7C0%7C%7C%7C&sdata=b2O9VaVq9VFjN8MJKWQ4YCI60oq5GZXnn69Vpa2sSL0%3D&reserved=0>) for JCCC equivalents.

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 information about the program, you must meet with an advisor at the transfer institution.

Program Requirements

KU Core 34 Requirements

| Course Code | Course Title | Course Hours | Transfer Code | Transfer Title | Transfer Hours |
|-------------|--------------|--------------|---------------|----------------|----------------|
| Code | Title | Hours | | | |

KU Core 34 English (<https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/>)

Visit the KU Core 34 English (<https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/>) for JCCC equivalents. (two courses) 6

KU Core 34 Communications (<https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/>)

Visit the KU Core 34 Communications (<https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/>) for JCCC equivalents. 3

KU Core 34 Social and Behavioral Sciences (<https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/>)

Visit the KU 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 – 6 hrs. total) 6

Select one of the following:

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|----------|--------------------------------|---|----------|------------------------------|---|
| ECON 230 | Principles of Macroeconomics # | 3 | ECON 144 | Principles of Macroeconomics | 3 |
| ECON 231 | Principles of Microeconomics # | 3 | ECON 142 | Principles of Microeconomics | 3 |
| ECON 132 | Survey of Economics | 3 | ECON 104 | Introductory Economics | 4 |

KU Core 34 Arts and Humanities (<https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/>)

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

KU Core 34 US Culture (<https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/>)

Visit the KU Core 34 US Culture (<https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/>) for JCCC equivalents. Institutionally Designated 3

KU Core 34 Global Culture (<https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/>)

Visit the KU Core 34 Global Culture (<https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/>) for JCCC equivalents. Institutionally Designated 3

Basic Sciences

KU Core 34 Natural and Physical Sciences (lab required) (<https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/>)

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|---|---|----|--|--|----|
| PHYS 220 | Engineering Physics I* #+ | 5 | PHSX 211 & PHSX 216 | General Physics I Lecture and General Physics I Laboratory | 5 |
| PHYS 221 | Engineering Physics II* | 5 | PHSX 212 | General Physics II Lecture | 3 |
| CHEM 124 & CHEM 125 & CHEM 131 & CHEM 132 | General Chemistry I Lecture* and General Chemistry I Lab* and General Chemistry II Lecture* and General Chemistry II Lab* | 10 | CHEM 130 & CHEM 135 | General Chemistry I and General Chemistry II | 10 |
| Science Elective | | | | | |
| BIOL 121 | Introductory Biology for Non-Majors | 4 | BIOL 100 | Principles of Biology | 3 |
| Mathematics | | | | | |
| Select one of the following: | | | | | |
| MATH 241 | Calculus I* # | 5 | MATH 125 | Calculus I | 4 |
| MATH 231 & MATH 232 | Business and Applied Calculus I* and Business and Applied Calculus II* | 3 | MATH 115 Calculus I AND MATH 116 Calculus II | | |
| MATH 242 | Calculus II* | 5 | MATH 126 | Calculus II | 4 |
| MATH 243 | Calculus III* | 5 | MATH 127 | Calculus III | 4 |
| MATH 254 | Differential Equations* | 4 | MATH 220 | Analytic Geometry Calc I | 4 |
| Basic Engineering Sciences | | | | | |
| CS 235 | Object-Oriented Programming Using C++* | 4 | CE 320 | Numerical Methods for Civ Engr | 3 |
| CS 235 | Object-Oriented Programming Using C++* | 4 | EECS 138 | Intro to Computing | 3 |
| ENGR 251 & ENGR 254 | Statics* and Dynamics* | 6 | CE 201 Statics AND CE 250 Dynamics | | |
| Select two of the following: | | | | | |
| DRAF 129 & DRAF 143 | Interpreting Architectural Drawings and Introduction to BIM Building Information Modeling* | 4 | ARCE 217 | Computer-Assstd Building Design | 3 |
| ENGR 131 | Engineering Graphics I:AutoCAD* | 4 | ARCE 217 | Computer-Assstd Building Design | 3 |

* JCCC course has a prerequisite or corequisite.

+ Must earn a grade of "C-" or better.

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.



2025-26 Catalog

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