

## Architectural Engineering

### University of Kansas

Johnson County Community College Transfer Program to the University of Kansas	School of Engineering
School of Engineering	785-864-3881
Architectural Engineering, Bachelor of Science (BS)	kuengr@ku.edu
Academic Year 2025-2026	www.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.**

Architectural engineers are involved in building projects that directly affect the production, comfort, health and safety of the public. Graduates are strongly encouraged to become registered professional engineers as soon as possible after graduation. In Kansas, and many other states with similar registration laws, this involves completing an ABET-accredited BS degree in architectural engineering, passing the Fundamentals of Engineering (FE) and Professional Engineering (PE) examinations, and obtaining four years of satisfactory engineering experience under the supervision of a professional engineer. Students in architectural engineering must take the FE examination before graduation. Architectural engineering graduates can also practice as architects after completing an NAAB-accredited professional undergraduate or graduate architecture degree program and becoming registered architects. Students with this interest should consider the available tracks leading to a Master of Architecture degree in addition to their BS in architectural engineering.

## Admissions Requirements

- Admission to The University of Kansas and the KU School of Engineering as a transfer student requires:
  - 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 final application deadlines for transfer admission are mid-August for Fall, mid-January for Spring, and late May for Summer. Earlier application is encouraged, especially if seeking financial aid.
- Admission is selective. Meeting the minimum requirements does not guarantee admission.
- Timely completion of prerequisite courses is imperative due to tight sequencing of major courses. Consult the KU Academic Catalog and seek KU CEAE Dept. advising early.
- The KU B.S. in Architectural Engineering is an EAC/ABET accredited engineering degree program.
- A total of 128 credit hours is required for the B.S. in Architectural 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 credits must have a grade of “C” or higher to be applied toward the KU engineering degree.
- Credit/No Credit policy: Credit/No Credit is not an option for any credits counting toward an architectural engineering degree.
- Students transferring to KU, that complete the General Education requirements required for the Associate of Arts (AA) (<https://catalog.jccc.edu/archives/2025-26/degree/requirements/associate-arts/>), Associate of Fine Arts (AFA) (<https://catalog.jccc.edu/archives/2025-26/degree/requirements/associate-fine-arts/>) or Associate of Science (AS) (<https://catalog.jccc.edu/archives/2025-26/degree/requirements/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/degree/requirements/associate-arts/>), Associate of Fine Arts (AFA) (<https://catalog.jccc.edu/archives/2025-26/degree/requirements/associate-fine-arts/>) or Associate of Science (AS) (<https://catalog.jccc.edu/archives/2025-26/degree/requirements/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%7Cskhalif%2F40jccc.edu%7C506a4b607ca34eaa00fb08de158ef1c2%7C15244239dcf245e7aefd127b69fc5438%7C1%7C0%7C638971900858599422%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUuIlYiOiIlwLjAuMDAwMCIsIiAiOiJXaW4zMilslkFOLjoiTWFpbCIsIldUljoyfQ%3D%3D%7C0%7C%7C%7C&sdata=b2O9VaVq9VFjN8MjKwQ4YCl60oq5GZXnn69Vpa2sSL0%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

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	Title	Hours			
<b>KU Core 34 Requirements</b>					
KU Core 34 English ( <a href="https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/">https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/</a> )					
	Visit the KU Core 34 English ( <a href="https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/">https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/</a> ) for JCCC equivalents. ^^	6			
KU Core 34 Communications ( <a href="https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/">https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/</a> )					

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

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

Visit the KU Core 34 Arts and Humanities 6  
(<https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/>) for JCCC equivalents. (Select two courses in two different disciplines)

ARCH 244	Architectural History Before the Modern Era #	3	ARCH 340	Global History of Arch I	3
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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 6  
Sciences (<https://catalog.jccc.edu/transfer-guides/ku/ku-transfer-core34/>) for JCCC equivalents. (Select two courses in two different disciplines)

**Select one of the following:**

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 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

**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 Sciences

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
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

## Engineering Science

DRAF 129 & DRAF 143	Interpreting Architectural Drawings and Introduction to BIM Building Information Modeling*	4	ARCE 217	Computer-Assisted Building Design	3
ENGR 251 & ENGL 254	Statics* and Masterpieces of the Cinema*	6	CE 201	Statics AND CE 250 Dynamics	

## Architectural Design/Architectural Technology

ARCH 127 & ARCH 131 & ARCH 140	Introduction to Architectural Graphics and Architectural Graphics* and Architectural Design* A	10	ARCH 100 & ARCH 101	Architectural Foundations and Architectural Foundations II	10
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\* JCCC course has a prerequisite or corequisite.

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

^^ Most important coursework to complete at JCCC if transferring to KU ARCE after one year at JCCC.

# 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.

A JCCC's courses will transfer as ARCH U and then be approved via an Engineering Transfer Contract once an admitted student, contact KU advisor.