Johnson County Community College
Transfer Program to the University of Kansas
School of Engineering
Architectural Engineering, B.S.
2022-2023 Catalog

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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 B.S. 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 B.S. in architectural engineering.

- Admission to The University of Kansas and the KU School of Engineering as a transfer student requires:
  - A 2.5/4.0 cumulative college GPA or higher
  - 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.
- Sixty-four credits total may be transferred to KU from community colleges. The last 30 hours of course work must be completed at KU.
- Transfer credits must have a grade of "C" or higher to be applied toward the KU engineering degree.
- Credit/No Credit policy: only accepted for KU Core GE 2.1 Written Communication, GE 2.2 Oral Communication, GE 3H Arts & Humanities, GE 3S Social Sciences, AE 4.1 Human Diversity, AE 4.2 Cultural & Global Awareness, and AE 5.1 Social Responsibility & Ethics. If an Engineering department recommends that certain course work be used to fulfill any of these requirements, those courses shall not be eligible for Credit/No Credit. Please note: Credit/No Credit is **not an option** for any credits counting toward aerospace, chemical, civil, or architectural engineering degrees.

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
Architecture History/Humanities/Social Science/KU Core				
ARCH 540 Global History of Architecture I: Origins to Industrial Revolution (3500 BCE-1700 CE)	3	ARCH 244 Architectural History Before the Modern Era	3	GE 3H
ARCH 541 Global History of Architecture II: From Industrial Revolution to Present (1700 CE-Present)	3	ARCH 245 Architectural History: Modern	3	AE 4.2
COMS 130 Speaker-Audience Comm.	3	COMS 121 Public Speaking	3	GE 2.2
KU Core Goal GE 3S (Social Science)	3	See list for Goal GE 3S	3	GE 3S
KU Core Goal AE 4.1 (Human Diversity)	3	See list for Goal AE 4.1	3	AE 4.1
KU Core Goal AE 5.1 (Ethics and Social Responsibility) CE610 recommended	3	See list for Goal AE 5.1	3	AE 5.1
English				
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
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 220 Applied Differential Equations	3	MATH 254 Differential Equations*	4	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
Basic Sciences				
CHEM 150 Chemistry for Engineers	5	^^CHEM 124/125 General Chemistry I*/Lab*, ^^^	4/1	GE 3N
^PHSX 210/ 216 General Physics I/Lab	3/1	^^PHYS 220 Engineering Physics I*	5	GE 1.1
PHSX 212/ 236 General Physics II/ Lab	3/1	PHYS 221 Engineering Physics II*	5	N/A
Engineering Science				
ARCE 217 Computer-Assisted Building Design	3	DRAF 129 Interpreting Arch. Drawings **AND** DRAF 143 Introduction to BIM*	2 2	Major
CE 260 Statics and Dynamics	5	ENGR 251 Statics* **AND** ENGR 254 Dynamics*	3 3	N/A
Architectural Design/Architectural Technology				
ARCH 100 Architectural Foundations I **AND** ARCH 101 Architectural Foundations II	4 4	ARCH 127 Intro to Architectural Graphics **AND** ARCH 131 Architectural Graphics* **AND** ARCH 140 Architectural Design*	4 3 3	Major
Additional courses for Engineering Science, Engineering Design and Architectural Design/Architectural Technology requirements will be taken at KU.				

* JCCC course has a prerequisite or corequisite.

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

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

^^^ KU's CHEM 149, Chemistry for Engineers Supplement (2), will also be required to equal KU's CHEM 150