

## Architectural Engineering, BS and Construction Science and Management, BS

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### Kansas State University

Johnson County Community College Transfer Program to the Kansas State University	College of Engineering Student Services
College of Engineering	785-532-5592
Architectural Engineering (BS), Construction Science and Management (BS)	engineering@k-state.edu
Academic Year 2025-2026	engg.ksu.edu/academics/undergraduate/

#### Program Description

The **architectural engineering** curriculum prepares entry-level engineers for the consulting engineering field who are well-grounded in the engineering specialties, understand how the building is designed and built, and know how the structural, mechanical and electrical engineering systems fit into the building. The program integrates a traditional engineering program with building systems courses. This course of study provides the theoretical tools required for engineering design and the ability to apply these tools to architectural structures to provide a completely functional building. Total credit hours required for graduation: 128.

The **construction science and management** program prepare graduates to be a professional constructor, a competent manager of resources that include labor, material, equipment, time and money to meet project expectations of quality, safety, scheduling and cost. The program is an engineering-based management program and is designed to produce technically competent managers of the construction process. **Expect 3 more years at K-State after transfer to complete CNS Degree.** Total credit hours required for graduation: 120.

## Admission Requirements

- **Admissions** - Applicants must first be admitted to Kansas State University either as an incoming freshman or a transfer student. To apply for admission to Kansas State University, complete an application (<https://www.k-state.edu/admissions/>) online and have official transcripts from all previous colleges sent directly to the Office of Admissions, Kansas State University, 119 Anderson Hall, Manhattan, KS, 66505-0102, or faxed to 785-532-6393 or emailed via electronic transcript service to [k-state@k-state.edu](mailto:k-state@k-state.edu). For students transferring to K-State with fewer than 24 credit hours, please also send final high school transcript and ACT or SAT scores. Admission to the College of Engineering is selective. Declaration of the desired curriculum in the College of Engineering does not guarantee admission into the degree program selected. Visit the College of Engineering (<https://engg.k-state.edu/academics/admissions/>) for current admission criteria.
- Students not admitted to the College of Engineering can enter the university Exploratory Studies program or another available college/degree program. These students can still apply to enter the College of Engineering at a later date after they have completed one full-time semester at K-State as an internal transfer student.
- **Grade requirements** - In addition to the university standards and policies for grades, the College of Engineering has the following standards:
- **Curricula grades** - See the individual engineering department sections of the K-State Undergraduate Catalog (<https://catalog.k-state.edu/>) for the grade requirements for their curriculum and degree. All courses applied to degree requirements require a letter grade except for 0-credit hour assembly courses.
- **DirectLink** - an initiative between Kansas community colleges and Kansas State University to provide future transfer students with support as they prepare to make the transition to K-State. Visit DirectLink (<https://apply2.ksu.edu/register/directlink/>) to register.
- **Transferability of Courses** - Many of the fundamental courses required for a degree in engineering may be obtained through pre-engineering programs at other four-year institutions or at community colleges. However, there are differences among the curricula; students electing this route should work closely with their pre-engineering advisors. **Students should be aware that no more than seventy-five hours may be transferred as credit from a community college, at least 30 credit hours must be K-State credit hours, and 15 of the last 30 must be K-State credit hours.** Only courses with a grade of A, B or C will be applicable toward engineering degree requirements. The Cr and D grades are not acceptable for transfer into College of Engineering programs.
- Some K-State courses in the curriculum do not have an equivalent course at all other institutions. Please see the K-State Undergraduate Catalog (<https://catalog.k-state.edu/>) for details and lists of courses. To learn more about academic credit for prior learning and advanced credit, visit K-State Advanced Standing (<https://www.k-state.edu/admissions/undergrad/manhattan/apply/policies-requirements/advanced-standing-credit/>) credit options.
- To determine which courses at a particular college or university will substitute for courses at K-State, visit Transfer Equivalency (<https://go.k-state.edu/equiv/>) on the K-State website.
- Students transferring to KSU, 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 KSU's core general education curriculum.
- Students who transfer to KSU, 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 KSU requirements. To learn more about courses that satisfy KSU Core Requirements (<https://catalog.k-state.edu/content.php?catoid=60&navoid=12133>) and KSU Transfer Equivalency Tool (<https://www.k-state.edu/admissions/undergrad/manhattan/apply/transfer/tools/course-search.html>).
- Visit the KSU Core General Education Guide (<https://nam12.safelinks.protection.outlook.com/?url=http%3A%2F%2Fnextcatalog.jccc.edu%2Ftransfer-guides%2Fk-state%2Fk-state-general-education&data=05%7C02%7Cskhalif2%40jccc.edu%7C3bbbe8fc84564328cf7008de1320415e%7C15244239dcf245e7aefd127b69fc5438%7C1%7C0%7C638969226426376370%7CUnknown%7CTWFPbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUslIYiOiIwLjAuMDAwMCIslIAiOiJXaW4zMlIsIkF0ljoiTWFpbCIsIldUljoyfQ%3D%3D%7C0%7C%7C%7C&sdata=p6L6HF0HBpB3aL3uFUWnztw8qzBp%2FiSMV2qIS%2FvLwxE%3D&reserved=0>) for JCCC equivalents.

## Architectural Engineering (B.S.) 128 hours required for the K-State B.S. degree

The curriculum for this major assumes students enter college prepared to take Calculus.

Course Code Code	Course Title Title	Course Hours	Transfer Code Hours	Transfer Title	Transfer Hours
<b>K-State Core</b>					
English (two courses) Visit the KSU Core General Education guide for JCCC equivalents.					
Communications Visit the KSU Core General Education guide for JCCC equivalents.					
Math and Statistics					
MATH 241	Calculus I*	5	MATH 220	Analytic Geometry Calc I	4
Natural and Physical Sciences					
PHYS 220	Engineering Physics I*	5	PHYS 213	Engineering Physics I	5
Social and Behavior Sciences (Select two courses in two subject areas) Visit the KSU Core General Education guide for JCCC equivalents.					
Arts and Humanities (Select two courses in two subject areas) Visit the KSU Core General Education guide for JCCC equivalents.					
Free Electives (Any 100 or 200 level courses may apply) Visit the KSU Core General Education guide for JCCC equivalents.					

Course Code Code	Course Title Title	Course Hours	Transfer Code Hours	Transfer Title	Transfer Hours
<b>Program Requirements</b>					
CHEM 124 & CHEM 125	General Chemistry I Lecture* and General Chemistry I Lab*	4	CHM 210	Chemistry I	4
ENGR 121	Engineering Orientation	2	DEN 160 College of Engineering Orientation		
ENGR 251	Statics*	3	CE 333	Statics	3
ENGR 254	Dynamics*	3	ME 512	Dynamics	3
ENGR 284	Thermodynamics*	4	ME 513 Thermodynamics I		
MATH 242	Calculus II*	5	MATH 221	Analytic Geometry Calc II	4
MATH 243	Calculus III*	5	MATH 222	Analytic Geometry Calc III	4
MATH 254	Differential Equations*	4	MATH 340	Elementary Differential Equatn	4
PHYS 221	Engineering Physics II*	5	PHYS 214	Engineering Physics II	5

## Construction Science and Management (CNSM) (B.S.)

120 hours required for the K-State B.S. degree

The curriculum for this major assumes students enter college prepared to take Trigonometry.

Course Code Code	Course Title Title	Course Hours	Transfer Code Hours	Transfer Title	Transfer Hours
English (two courses) Visit the KSU Core General Education guide for JCCC equivalents.					
Communications					

COMS 121	Public Speaking	3	COMM 105 & COMM 106 & COMM 109	Performance Appreciation and Public Speaking I and "Public Speaking 1A, Honors"	3
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**Math and Statistics**

MATH 172	Trigonometry*	3	MATH 150	Calculus I	5
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**Natural and Physical Sciences**

PHYS 130	College Physics I*	5	PHYS 113	General Physics I	4
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**Social and Behavior Sciences (Select two courses  
in two subject areas – 6 hours total)** Visit the KSU  
Core General Education guide for JCCC equivalents.

ECON 230	Principles of Macroeconomics	3	ECON 110 & ECON 111	Principles of Macroeconomics and Prin of Macroeconomics Honors	3
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**Arts and Humanities (Select two courses in two  
subject areas)** Visit the KSU Core General Education  
guide for JCCC equivalents.

**Free Electives (Any 100 or 200 level courses may  
apply)** Visit the KSU Core General Education guide for JCCC  
equivalents.

**Program Requirements**

ACCT 121	Accounting I ^	3	ACCTG 241	Intro to Financial Accounting	3
ACCT 122	Accounting II* ^	3	ACCTG 241	Intro to Financial Accounting	3
BLAW 261	Business Law I*	3	MANGT 230	Business Law I	3
BUS 241	Principles of Management	3	MANGT 220 & MANGT 420	Principles of Management and Principles of Management	3

\* JCCC course has a prerequisite or corequisite.

^ Important to complete in semesters 1 & 2 to satisfy prerequisites and stay on pace for a 4-year completion. ACCT 121 AND ACCT 122 are not direct equivalents but can sub for ACCTG 231.

- Expect 3 more years at K-State after transfer to complete CNS Degree.

+ COMM 106 required as a prerequisite for CNS 440 Construction Methods.