

College of Engineering

Wichita State University

Johnson County Community College Transfer Program to the Wichita State University	WSU College of Engineering
College of Engineering	316-978-3400
College of Engineering	www.wichita.edu/academics/engineering/essc/advising/
Academic Year 2025-2026	www.wichita.edu/engineering

Program Description

The Associate of Arts, AA (<https://catalog.jccc.edu/degree/requirements/associate-arts/>) at JCCC is a general transfer degree and partners well with the first two years of most bachelor degree programs. Students pursuing the AA may select courses that satisfy both the AA degree requirements and lower division requirements for a bachelor's degree at four-year institutions. The elective hours within the AA allow students to complete additional general education and lower division courses required for specific majors. The AA degree requires completion of 60 credit hours. Meeting with a JCCC counselor (<https://www.jccc.edu/student-resources/counseling/academic-counseling/>) is strongly recommended for selection of appropriate courses.

WSU College of Engineering:

•To graduate from a WSU Engineering Program, a candidate must attain 2.0 GPA in each of the following categories:

- All college and university work attempted (cumulative GPA)
- All work attempted at WSU (WSU GPA)
- All work in the student's major at WSU including Engineering+ requirements

•Most engineering courses have prerequisites and/or corequisites; the prerequisite course must have been completed before the course requiring it can be taken, and the co-requisite must be completed prior to or taken concurrently with the required course sequence.

•Specific engineering courses for each major will be provided during student advising.

WSU Engineering Majors:

- Aerospace Engineering (AE)
- Applied Engineering – Engineering Management (APEN-EM)
- Applied Engineering – Process Automation (APEN-PA)
- Applied Engineering – Sustainable and Environmental Engineering (APEN-SE)
- Biomedical Engineering (BME)
- Computer Engineering (CE)
- Computer Science (CS)
- Cybersecurity (CB)
- Electrical Engineering (EE)
- Industrial Engineering (IE)
- Mechanical Engineering (ME)
- Product Design & Manufacturing Engineering (PDME)

WSU Admission Requirements:

If you are a transfer student with 24 credit hours or more, you must:

- Have a minimum 2.00 cumulative GPA (on a 4.00 scale) on all previous college work.

If you are a transfer student under age 21, with fewer than 24 credit hours, you must:

- Have a minimum 2.00 cumulative GPA (on a 4.00 scale) on all previous college work and meet the freshman requirements.

Some academic colleges at WSU have an additional higher transfer GPA requirement for admission (<https://www.wichita.edu/admissions/undergraduate/transfertowsu/>).

WSU General Education Requirement:

- Students transferring to WSU, that complete the General Education requirements required for the Associate of Arts (AA) (<https://catalog.jccc.edu/degree/requirements/associate-arts/>), Associate of Fine Arts (AFA) (<https://catalog.jccc.edu/degree/requirements/associate-fine-arts/>) or Associate of Science (AS) (<https://catalog.jccc.edu/degree/requirements/associate-science/>) degree from JCCC will be considered to have satisfied WSU's core general education curriculum.
- Students who transfer to WSU, without completing the General Education requirements required for the Associate of Arts (AA) (<https://catalog.jccc.edu/degree/requirements/associate-arts/>), Associate of Fine Arts (AFA) (<https://catalog.jccc.edu/degree/requirements/associate-fine-arts/>) or Associate of Science (AS) (<https://catalog.jccc.edu/degree/requirements/associate-science/>) degree will have courses evaluated on a course-by-course basis toward meeting WSU requirements. To learn more about courses that satisfy WSU Core Requirements (<https://catalog.wichita.edu/undergraduate/academic-information/general-education-program/>) and WSU Transfer Equivalency Tool (<https://www.wichita.edu/admissions/undergraduate/transfertowsu/>).
- (<https://www.jccc.edu/student-resources/transfer/files/transfer-guides/wsu-gen-ed-requirements.pdf>)WSU Core General Education Guide (<https://nam12.safelinks.protection.outlook.com/?url=http%3A%2F%2Fnextcatalog.jccc.edu%2Ftransfer-guides%2Fwsu%2Fwsu-general-education%2F&data=05%7C02%7Cskhalif2%40jccc.edu%7C3bbbe8fc84564328cf7008de1320415e%7C15244239dcf245e7aefd127b69fc5438%7C1%7C0%7C638969226426443556%7CUnknown%7CTWfPbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUslYiOilwLjAuMDAwMCIslIAiOjXaW4zMlslkFOljoITWfPbClslldUljoyfQ%3D%3D%7C0%7C%7C%7C&sdata=1kY96CCwl0dnooAhici9xndoe5HA4iO8u%2BslmogJtWM%3D&reserved=0>)
- WSU requires Specific General Education Requirements (<https://www.wichita.edu/academics/generaleducation/>) by College. All Engineering majors, except Cybersecurity, are required to take **MATH 242**. Students in the BS in Cybersecurity program are required to take **MATH 123**.

WSU Transfer Students Should Remember:

- **WSU Transfer Policy – Credit Acceptance:** It is the policy of Wichita State University (WSU) to accept all credits – with the exception of remedial coursework – earned at a post- secondary institution accredited by one of the U.S. regional accrediting agencies. Each academic college or department within WSU determines how those credits apply toward a particular degree program. Sometimes there can be a significant difference between what transfers and what counts toward a degree, especially if the courses are vocational in nature. To be eligible for graduation from Wichita State University, students transferring from a two-year college must complete at least 60 credit hours of four-year college work and 45 credit hours of upper-division coursework.
- Dual Advising: (<https://slate.wichita.edu/register/dualadvising/>) WSU strongly suggests that potential transfer students involve their WSU advisor in program planning.
- Graduation Requirements: (<https://catalog.wichita.edu/undergraduate/academic-information/graduation/>) To qualify for graduation with a WSU bachelor's degree, transfer students must meet certain requirements such as course credit hours, levels, GPA, and residency.

Transfer Requirements:

MATH & NATURAL SCIENCES – Required for all College of Engineering majors.

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
CHEM 124	General Chemistry I Lecture* (AND/Lab *#) L	4	CHEM 211	General Chemistry I	5
CHEM 125	General Chemistry I Lab* (except APEN-PA concentration, CB CE, CS)	1	CHEM 211	General Chemistry I	5
MATH 201	Statistics* (except AE, ME)	3	IME 254	Engineering Probability Stats	3

MATH 241	Calculus I* (except CB)	5	MATH 242 & MATH 242H	Calculus I and Calculus I Honors	5
MATH 242	Calculus II* (except CB)	5	MATH 243 & MATH 243H	Calculus II and Calculus II Honors	3
MATH 243	Calculus III* (only AE, EE, ME)	5	MATH 344	Calculus III	3
MATH 254	Differential Equations* (except APEN, CB, CS, IE)	4	MATH 555	Differential Equations I	3
PHYS 220	Engineering Physics I* (except CB) L	5	PHYS 313	Physics for Scientists I	4
PHYS 221	Engineering Physics II* (except APEN-SE concentration, CB) #L	5	PHYS 314	Physics for Scientists II	4

* JCCC course has a prerequisite or corequisite.

#APEN-EM concentration – choose one: CHEM 124 OR PHYS 221.

Aerospace Engineering - AE

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	Title		Hours		
ECON 230	Principles of Macroeconomics +^	3	ECON 201 & ECON 201H	Introduction to Macroeconomics and Prin of Macroeconomics Honors	3
ENGR 131	Engineering Graphics I:AutoCAD*	4	IME 222	Engineering Graphics	3
ENGR 251	Statics*	3	AE 223	Statics	3
ENGR 254	Dynamics*	3	AE 373	Dynamics	3
PHYS 220	Engineering Physics I* +^L	5	PHYS 313	Physics for Scientists I	4

Applied Engineering – APEN

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	Title		Hours		
ACCT 121	Accounting I (AND)	3	ACCT 210	Financial Accounting	3
ACCT 122	Accounting II* (EM concentration only)	3	ACCT 210	Financial Accounting	3
ECON 230	Principles of Macroeconomics +^	3	ECON 201 & ECON 201H	Introduction to Macroeconomics and Prin of Macroeconomics Honors	3
ENGR 131	Engineering Graphics I:AutoCAD*	4	IME 222	Engineering Graphics	3
ENGR 251	Statics*	3	AE 223	Statics	3
EVRN 130	Environmental Science (AND)	3	BIOL 370	Intro Environmental Science	3
EVRN 132	Environmental Science Laboratory* L	2	BIOL 371	General Microbiology	3

PHYS 220	Engineering Physics I* +^L	5	PHYS 313	Physics for Scientists I	4
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Biomedical Engineering - BME

Course Code Code	Course Title Title	Course Hours	Transfer Code Hours	Transfer Title	Transfer Hours
BIOL 135	Principles of Cell and Molecular Biology L	4	BIOL 210	General Biology I	4
BIOL 144	Human Anatomy and Physiology* L	5	BIOL 223 & HS 290 & HS 290H	Human Anatomy Physiology and Found Human Anatomy/Physiology and Found Human Anatomy/Physiology	5
CHEM 124	General Chemistry I Lecture* (AND) +^	4	CHEM 211	General Chemistry I	5
CHEM 125	General Chemistry I Lab* +^L	1	CHEM 211	General Chemistry I	5
CHEM 131	General Chemistry II Lecture* (AND) L	4	CHEM 212	General Chemistry II	5
CHEM 132	General Chemistry II Lab*	1	CHEM 212	General Chemistry II	5
ENGR 251	Statics*	3	AE 223	Statics	3

Computer Engineering - CE

Course Code Code	Course Title Title	Course Hours	Transfer Code Hours	Transfer Title	Transfer Hours
CS 200	Concepts of Programming Algorithms Using C++* (OR)	4	CS 311	Object-Oriented Programming	4
CS 202	Concepts of Programming Algorithms using Python*	4	CS 311	Object-Oriented Programming	4
CS 235	Object-Oriented Programming Using C+ +*	4	CS 311	Object-Oriented Programming	4
CS 250	Basic Data Structures using C++*	4	CS 400	Data Structures	4
PHYS 221	Engineering Physics II* +^L	5	PHYS 314	Physics for Scientists II	4

Computer Science - CS

Course Code Code	Course Title Title	Course Hours	Transfer Code Hours	Transfer Title	Transfer Hours
CS 200	Concepts of Programming Algorithms Using C++* (OR)	4	CS 311	Object-Oriented Programming	4



CS 202	Concepts of Programming Algorithms using Python*	4	CS 311	Object-Oriented Programming	4
CS 235	Object-Oriented Programming Using C++*	4	CS 311	Object-Oriented Programming	4
CS 250	Basic Data Structures using C++*	4	CS 400	Data Structures	4
PHYS 221	Engineering Physics II* +^L	5	PHYS 314	Physics for Scientists II	4

Cybersecurity - CB

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	Title		Hours		
CSS 120	Computer User Support Skills* (OR)	3	AC 222	Applied Computing Fundamentals	3
IT 120	CompTIA A+ Core 2 (OR)	3	AC 222	Applied Computing Fundamentals	3
IT 206	Network Security Fundamentals*	3	AC 222	Applied Computing Fundamentals	3
CSS 290	Computer Support Specialist Internship*	2	AC 201 AND AC 301		
ECON 230	Principles of Macroeconomics +^	3	ECON 201 & ECON 201H	Introduction to Macroeconomics and Prin of Macroeconomics Honors	3
IT 202	IT Scripting*	3	AC 322		
MATH 172	Trigonometry*	3	MATH 123	College Trigonometry	3
PHYS 130	College Physics I* +^L	5	PHYS 213	Engineering Physics I	5
PSYC 130	Introduction to Psychology +^	3	PSY 111 & PSY 111H	General Psychology and General Psychology Honors	3
PSYC 220	Social Psychology*	3	PSY 323 & PSY 323H	Social Psychology and Social Psychology Honors	3

Electrical Engineering - EE

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	Title		Hours		
CHEM 124	General Chemistry I Lecture* (AND) +^	4	CHEM 211	General Chemistry I	5
CHEM 125	General Chemistry I Lab* +^L	1	CHEM 211	General Chemistry I	5
CS 200	Concepts of Programming Algorithms Using C++* (OR)	4	CS 311	Object-Oriented Programming	4
CS 202	Concepts of Programming Algorithms using Python*	4	CS 311	Object-Oriented Programming	4

Industrial Engineering - IE

Course Code Code	Course Title Title	Course Hours	Transfer Code Hours	Transfer Title	Transfer Hours
CHEM 124	General Chemistry I Lecture* (AND) +^	4	CHEM 211	General Chemistry I	5
CHEM 125	General Chemistry I Lab* +^L	1	CHEM 211	General Chemistry I	5
CS 200	Concepts of Programming Algorithms Using C++* (OR)	4	CS 311	Object-Oriented Programming	4
CS 202	Concepts of Programming Algorithms using Python*	4	CS 311	Object-Oriented Programming	4
ENGR 131	Engineering Graphics I:AutoCAD*	4	IME 222	Engineering Graphics	3

Mechanical Engineering - ME

Course Code Code	Course Title Title	Course Hours	Transfer Code Hours	Transfer Title	Transfer Hours
CHEM 124	General Chemistry I Lecture* (AND) +^	4	CHEM 211	General Chemistry I	5
CHEM 125	General Chemistry I Lab* +^L	1	CHEM 211	General Chemistry I	5
ENGR 131	Engineering Graphics I:AutoCAD*	4	IME 222	Engineering Graphics	3
ENGR 251	Statics*	3	AE 223	Statics	3
ENGR 254	Dynamics*	3	AE 373	Dynamics	3

Product Design & Manufacturing Engineering - PDME

Course Code Code	Course Title Title	Course Hours	Transfer Code Hours	Transfer Title	Transfer Hours
ENGR 131	Engineering Graphics I:AutoCAD*	4	IME 222	Engineering Graphics	3
ENGR 251	Statics*	3	AE 223	Statics	3
PHYS 220	Engineering Physics I* +^L	5	PHYS 313	Physics for Scientists I	4

* JCCC course has a prerequisite or corequisite.

+ This course fulfills both General Education and program requirements simultaneously.

^ General Education course approved by KBOR as a requirement for the degree program even if the student has already completed the General Education program.

L Course meets JCCC Lab Science requirement and carries the lab attribute for WSU.