



The Associate of Arts degree (A.A.) at JCCC is a general transfer degree and partners well with the first two years of most bachelor degree programs. Students pursuing the A.A. may select courses that satisfy both the A.A. degree requirements and lower division requirements for a bachelor's degree at four-year institutions. The 30 hours of electives within the A.A. allows students to complete additional general education and lower division courses required for specific majors. The A.A. degree requires completion of 60 credit hours, the maximum number of hours from a community college that will be applied toward a bachelor's degree at most four-year schools. **Meeting with a JCCC counselor is strongly recommended for selection of appropriate courses.**

The Department of Civil and Mechanical Engineering at UMKC offers the following degrees:

- \* Bachelor of Science in Civil Engineering
- \* Bachelor of Science in Mechanical Engineering

All UMKC undergraduate degrees require at least 120 credit hours, some programs may require more hours. Students must complete at least 30 credit hours at UMKC and at least 12 upper division credit hours in their major department/program at UMKC to be eligible to receive an undergraduate degree from UMKC.

#### General UMKC Transfer Admission Requirements

- \* 2.0 or higher cumulative GPA
- \* Credit/no credit may only be applied to elective coursework and will not apply towards UMKC's general education core or major requirements
- \* Equivalent courses can be repeated but all grades will be averaged for GPA calculation purposes and students will only receive credit for one attempt
- \* Full transfer admission requirements can be found at [www.umkc.edu/admissions/transfer.cfm](http://www.umkc.edu/admissions/transfer.cfm)

#### SCE-Civil & Mechanical Engineering Transfer Admission Requirements

- \* 2.5 or higher GPA in all engineering degree applicable coursework
- \* Students are encouraged to complete at least Calculus I and either Chemistry or Engineering Physics I with no grades less than a "C" before applying.

Apply online at [www.umkc.edu/apply](http://www.umkc.edu/apply)

**\*\*NOTE\*\* Completing an Associate of Arts degree or the Associate of Science in General Sciences at JCCC will satisfy all lower level general education requirements at UMKC. It is highly recommended that students complete the Associate degree prior to transfer to UMKC whenever possible.**

**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.**

## Major Specific Information

Major/Course	UMKC Course	JCCC Course	Req. Fulfilled
<p><b>* Civil Engineering (BS) and Mechanical Engineering (BS) Transfer students must have a 2.5 or higher GPA in all engineering degree applicable coursework. Students are encouraged to complete at least Calculus I and either Chemistry or Engineering Physics I with no grades less than a "C" before applying.</b></p>			
Speech & Writing I Speech & Writing II	Gen. Ed. - DISC 100 Gen. Ed. - DISC	Any two of the following: ENGL 121*, ENGL 122*, SPD 121	Speech & Writing I Speech & Writing II
Arts & Humanities	Any Focus A course	See list on page 3	Gen. Ed./ Focus A
Engineering Physics I	PHYSICS 240	PHYS 220*	Gen. Ed./ Focus B/ Major Requirement
American History OR Politics	HISTORY 101, 102 or POL-SCI 210	HIST 140, 141 or POLS 124	Gen. Ed./ Focus C/ MO Constitution (MO Constitution requirement is met by completing JCCC AA or AS)
Engineering Physics II	PHYSICS 250	PHYS 221*	Gen. Ed./ Focus E1/ Major Requirement
Calculus I	MATH 210 or MATH 266	MATH 241*	Major Requirement/ Extra Focus 1
General Chemistry I	CHEM 211 & 211L	CHEM 124* & 125*	Major Requirement/ Extra Focus 2
Calculus II	MATH 220 or MATH 268	MATH 242*	Major Requirement
Calculus III	MATH 250	MATH 243*	Major Requirement
Engineering Graphics	MEC-ENGR 130 OR MEC-ENGR 131 (if ENGR 131 completed at JCCC)	ENGR 131* (and MEC-ENGR 131 at UMKC)	Major Requirement
Engineering Statics	CIV-ENGR 275	ENGR 251*	Major Requirement

### Civil Engineering Only

Engineering Dynamics	MEC-ENGR 285	ENGR 254*	Not required for Civil Engineering, but will accept as Engineering Elective
Differential Equations	MATH 345	MATH 254* <sup>^</sup>	Major Requirement

### Mechanical Engineering Only

Engineering Dynamics	MEC-ENGR 285	ENGR 254*	Major Requirement
Engineering Analysis	MEC-ENGR 272	MATH 254* <sup>^</sup>	Major Requirement

<sup>^</sup> JCCC MATH 254 meets degree requirements for UMKC Civil and Mechanical Engineering degrees, but is not accepted by the UMKC Math department toward a Mathematics Major or Minor.

**UMKC General Education – Focus A Arts & Humanities Options**

UMKC Courses		JCCC Courses	
ART 121	3	ART 124*	3
ART 114	3	ART 138	3
ART - HIST 201	3	ARTH 180	3
ART HIST 202	3	ARTH 182	3
ART HIST 303	3	ARTH 184	3
CLASSICS OR ENGLISH 119	3	HUM 155 OR 156	3
COMM-ST 330	3	FMS 100	3
CONSVTY 120	3	MUS 121	3
CONSVTY 126	3	MUS 126	3
CONSVTY 103N	3	MUS 123	2
CONSVTY 125	3	MUS 128	3
ENGLISH 214	3	ENGL 230*	3
ENGLISH 215	3	ENGL 227*	3
ENGLISH 216	3	ENGL 223*	3
ENGLISH 242	3	ENGL 217*	3
HISTORY 201	3	HIST 125	3
HISTORY 202	3	HIST 126	3
HISTORY 206	3	HIST 151	3
HISTORY 208	3	HIST 152	3
ENGLISH 273	3	ENGL 243*	3
TCH-ED 201	3	ENGL 232*	3
PHILOS 210	3	PHIL 121 OR 210*	3
THEATRE 130	3	THEA 120	3

\* JCCC Course has a prerequisite or corequisite.