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

**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.

Updated 03/19
Major Specific Information

<table>
<thead>
<tr>
<th>Major/Course</th>
<th>UMKC Course</th>
<th>JCCC Course</th>
<th>Req. Fulfilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>*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.</td>
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</table>

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*^  
Major Requirement  

Mechanical Engineering Only  

Engineering Dynamics  
MEC-ENGR 285  
ENGR 254*  
Major Requirement  

Engineering Analysis  
MEC-ENGR 272  
MATH 254*^  
Major Requirement  

^ 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.
<table>
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<tr>
<th>UMKC Courses</th>
<th>JCCC Courses</th>
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<td>ART 114</td>
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<td>THEATRE 130</td>
<td>THEA 120</td>
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* JCCC Course has a prerequisite or corequisite.