



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 Computer Science and Electrical Engineering at UMKC offers the following degrees:

- * Bachelor of Arts in Computer Science (BACS)
- * Bachelor of Science in Computer Science (BSCS)
- * Bachelor of Science in Electrical and Computer Engineering (BSECE)
- * Bachelor of Information Technology (BIT)

All UMKC undergraduate degrees require at least 120 credit hours, some programs may required 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:
<https://sce.umkc.edu/new-roo/transfer/>
- * Apply online at: www.umkc.edu/apply

SCE-Computer Science & Electrical Engineering Transfer Admission Requirements:

- * 2.0 or higher GPA in all math and science coursework

****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 Associates 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
Computer Science (BA) - A minimum of one lab from one of the following areas: Biology, Chemistry, Environmental Science, Geoscience, or Physics is required. A minimum C or better in CS/COMP-SCI coursework is recommended.			
Speech and Writing I	DISC 100	ENGL 121* or SPD 121	General Education
Speech and Writing II	DISC 200	ENGL 122*	General Education
Arts and Humanities	Any Focus A course	See table below	Gen. Ed./ Focus A
College Algebra	MATH 110	MATH 171*	Gen. Ed./ Focus B
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)
Statistics	STAT 235	MATH 181*	Gen. Ed./ Focus El.
Life Science - select one	BIOLOGY 102, 108,109, CHEM 115, 211, 212R	BIOL 121, 125, 127, 135, 150* CHEM 122*, 124*, 131*	Major Req. / Extra Focus 1
Physical Science - select one	PHYSICS/ASTR/PHYS- SCI 150, ENV-SCI 110, GEOLOGY 220, PHYS- ICS 210, 220, 240, 250	ASTR 120, 122, BIOL 130, GEOS130 PHYS 130*, 131*, 220*, 221*	Major Req. / Extra Focus 2
Calculus I	MATH 210	MATH 241*	Major Req./ Extra Focus 3
Any Focus course	See table below	See table below	Gen. Ed./ Extra Focus 4
Calculus II	MATH 220	MATH 242*	Major Req.
Foreign Language Level I	FL 110	FL Level I	Major Req.
Foreign Language Level II	FL 120	FL Level II*	Major Req.
Foreign Language Level III	FL 130	FL Level III*	Major Req.
Problem Solving & Programming I	COMP - SCI 101 COMP-SCI 101L	CS 200*	Major Req.
Discrete Structures	COMP - SCI 191	CS 210*	Major Req.
Problem Solving & Programming II	COMP - SCI 201R COMP-SCI 201L	CS 250*	Major Req.
Discrete Structures II	COMP - SCI 291	CS 211*	Major Req.

Computer Science (BS) - A minimum of one lab from one of the following areas: Biology, Chemistry, Environmental Science, Geoscience, or Physics is required. A minimum C or better in CS/COMP-SCI coursework is recommended.

Speech and Writing I	DISC 100	ENGL 121* or SPD 121	General Education
Speech and Writing II	DISC 200	ENGL 122*	General Education
Arts and Humanities	Any Focus A course	See table below	Gen. Ed./ Focus A
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)
Statistics	STAT 235	MATH 181*	Gen. Ed./ Focus El.
Life Science - select one	BIOLOGY 102, 108, 109, CHEM 115, 211, 212R	BIOL 121, 125, 127, 135, 150* CHEM 122*, 124*, 131*	Major Req. / Extra Focus 1
Engineering Physics I	PHYSICS 240	PHYS 220* Engineering Physics I	Major Req. / Extra Focus 2
Engineering Physics II	PHYSICS 250	PHYS 221* Engineering Physics II	Major Req./ Extra Focus 3
Calculus I	MATH 210	MATH 241*	Gen. Ed./Focus B
Any Focus course	See table below	See table below	Gen. Ed./ Extra Focus 4
Calculus II	MATH 220	MATH 242*	Major Req.
Problem Solving & Programming I	COMP - SCI 101 COMP-SCI 101L	CS 200*	Major Req.
Discrete Structures	COMP - SCI 191	CS 210*	Major Req.
Problem Solving & Programming II	COMP - SCI 201R COMP SCI 201L	CS 250*	Major Req.
Discrete Structures II	COMP - SCI 291	CS 211*	Major Req.

Electrical and Computer Engineering (BS) - A minimum of "C" or better in E&C - ENGR coursework is recommended.

Speech and Writing I	DISC 100	ENGL 121* or SPD 121	General Education
Speech and Writing II	DISC 200	ENGL 122*	General Education
Arts and Humanities	See table below	See table below	Gen. Ed./ Focus A
Calculus I	MATH 210	MATH 241*	Gen. Ed./ Focus B
American History or Politics	HISTORY 101, 102 or POL-SCI 210	HIST 140, 141, or POLS 124	Gen. Ed./ Focus C / Constitution (MO Constitution requirement is met by completing JCCC AA or AS)
Engineering Physics I	PHYSICS 240	PHYS 220*	Gen. Ed./ Focus E1.
Engineering Physics II	PHYSICS 250	PHYS 221*	Major Req. /Extra Focus 1
Biology or Chemistry	BIOLOGY 102 or CHEM 211	BIOL 121 or CHEM 124*/125*	Major Req. /Extra Focus 1
Calculus II	MATH 220	MATH 242*	Major Req.
Calculus III and Diff. Equations	E & C - ENGR 241	MATH 243* and MATH 254*	Major Req.
Engineering Graphics	MECH- ENGR 130	ENGR 131* (and MEC-ENGR 131 at UMKC)	Major Req.

Information Technology (BIT) *A minimum of one lab in either from one of the following areas: Biology, Chemistry, Environmental Science, Geoscience, or Physics is required.

Speech and Writing I	DISC 100	ENGL 121* or SPD 121	General Education
Speech and Writing II	DISC 200	ENGL 122*	General Education
Arts and Humanities	See table below	See table below	Gen. Ed./ Focus A
American History or Politics	HISTORY 101, 102 or POL-SCI 210	HIST 140, 141, or POLSI24	Gen. Ed./ Focus C / Constitution (MO Constitution requirement is met by completing JCCC AA or AS)
Calculus I	MATH 210	MATH 241*	Gen. Ed./ Focus El.
Life Science	BIOLOGY 102, 108, 109 CHEM 115, 211, 212 R	BIOL 121, 125, 127, 135, 150* CHEM 122*. 124*, 131*	Major Req. /Extra Focus 1
Physical Science	PHYSICS/ASTR/ PHYS-SCI 150, ENV-SCI 110R, GEOLOGY 220, PHYSICS 210, 220, 240, 250	ASTR 120, 122 GEOS 140, GEOS 130, PHYS 130*, 131*, 220*, 221*	Major Req. /Extra Focus 2
Microeconomics	ECON 202	ECON 231	Major Req. /Extra Focus 3
Any Focus course	See table below	See table below	Major Req. /Extra Focus 4
Principles of Accounting	ACCTNG 210	ACCT 122*	Major Req.
Managerial Accounting	ACCTNG 211	ACCT 222*	Major Req.
Problem Solving and Programming I	COMP-SCI 101 COMP SCI 101L	CS 200*	Major Req.
Discrete Structures	COMP-SCI 191	CS 210*	Major Req.
Problem Solving and Programming II	COMP-SCI 201R COMP SCI 201L	CS 250*	Major Req.
Discrete Structures II	COMP-SCI 291	CS 211*	Major Req.

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.