



**JOHNSON COUNTY COMMUNITY COLLEGE**  
**Academic Program Map for Transfer to the**  
**University of Missouri-Kansas City**  
**School of Medicine MD Program**  
**Master of Medical Science - Physician Assistant**  
**Master of Science in Anesthesia**  
2023-2024 Catalog

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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 elective hours within the A.A. allow students to complete additional general education and lower division courses required for specific majors. The A.A. degree requires completion of 60 credit hours; please see [JCCC A.A. degree requirements](#). **Meeting with a JCCC counselor is strongly recommended for selection of appropriate courses.**

NOTE: Completing an Associate of Arts degree or the Associate of Science in General Sciences at JCCC will satisfy all general education requirements at UMKC including the Missouri Constitution Course requirement. **It is highly recommended that students complete the Associates degree prior to transfer to UMKC whenever possible.**

General UMKC Transfer Admission Requirements:

- 2.0 or higher cumulative GPA.
- Credit/No-credit or Pass/Fail coursework may only be applied to elective coursework and will not apply towards UMKC's General Education Core or major requirements. *(UMKC did allow Credit/No-credit or Pass/Fail for Spring 2020 coursework. Please see specific program for transfer guidelines.)*
- Full transfer admission requirements can be found at: <https://www.umkc.edu/transfer/apply.html>

**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.**

**UMKC MD PROGRAM ADMISSION REQUIREMENTS**  
See <http://med.umkc.edu/md/requirements/> for complete information

**Coursework**

- Have earned, or will soon earn, a baccalaureate, master’s or doctoral degree awarded from a regionally-accredited college or university located in the United States.
- Earned a minimum cumulative GPA of 3.0 (graduate or undergraduate)
  - Out-of-state students are required to have a cumulative GPA of 3.5
- Earned a minimum GPA of 3.0 in the AMCAS BCPM (Biology, Chemistry, Physics, and Math coursework), graduate or undergraduate
  - Out-of-state students are required to have a GPA of 3.5 in the AMCAS BCPM
- Completed one semester each of these three prerequisites with a grade of “B” or better: biochemistry (upper level), genetics and cell biology. These courses must be completed with a grade of “B” or better at a regionally accredited college or university located in the United States and must have been completed within five years of the application deadline.

**MCAT Score**

- The Medical College Admission Test is required with a minimum score of 495.
- MCAT scores must have been earned within *three years* of the application deadline.
- The latest MCAT score accepted for initial application review is the July MCAT. (Scores must be sent to AMCAS by August 1st.) If a student is selected for an interview, the latest MCAT score accepted for final review by the Council on Selection is the July MCAT.
- UMKC School of Medicine MCAT code: 808.

**Admissions Eligibility**

- Permanent resident status must be achieved by August 1 of the year before the spring term for which applicant is applying. A copy of the permanent resident card must accompany the general application for admission.
- International students are not eligible for admission to the M.D. program.
- Must not have been enrolled as a medical student at another medical school or at UMKC School of Medicine.
- Although out-of-state students are welcome to apply to the M.D. Program, preference and priority consideration is given to in-state students from the state of Missouri as well as to regional students from the states of Arkansas, Illinois, Kansas, Nebraska, and Oklahoma.

**Recommended Transfer Courses for MD Program:**

<b>MD Program Prerequisites</b>	<b>UMKC Course</b>	<b>JCCC Equivalent Course</b>
<b>One semester of biochemistry (Upper Division)</b>	LS-BIOC 341 Basic Biochemistry	<i>No Equivalent, but prerequisites for this upper level course can be taken at JCCC</i>
Prerequisite for LS-BIOC 341	BIOLOGY 202 Cell Biology	<i>No Equivalent, but prerequisites for this course can be taken at JCCC</i>
Prerequisite for BIOLOGY 202	BIOLOGY 108 General Biology I	BIOL 135 Principles of Cell and Molecular Biology
Prerequisite for BIOLOGY 202	BIOLOGY 109 General Biology II	BIOL 150 Biology of Organisms*
Prerequisite for BIOLOGY 202	CHEM 212R General Chemistry II <b>AND</b> CHEM 212LR Lab	CHEM 131 General Chemistry II* <b>AND</b> CHEM 132 General Chemistry II Lab*
Prerequisite for CHEM 212R/LR	CHEM 211 General Chemistry I <b>AND</b> CHEM 211L Lab (Both with “C-“ or better)	CHEM 124 General Chemistry I* <b>AND</b> CHEM 125 General Chemistry I Lab* (Both with C- or better)
<b>One semester of genetics</b>	BIOLOGY 206 Genetics	BIOL 205 General Genetics*
<b>One semester of cell biology</b>	BIOLOGY 202 Cell Biology	Biology 135 Principles of Cell and Molecular Biology (Not Equivalent to UMKC BIOLOGY 202, but meets the “cell biology” requirement)

## UMKC MASTER OF MEDICAL SCIENCE PHYSICIAN ASSISTANT PROGRAM ADMISSION REQUIREMENTS

See <http://med.umkc.edu/pa/requirements/> for complete information

### Coursework

- Applicants for admission to the MMSPA program must have earned, or will soon earn, a baccalaureate, masters or doctoral degree from a regionally accredited college or university located in the United States or Canada.
- Applicants must earn a minimum cumulative GPA of 3.0.
- Applicants must complete the following pre-requisite coursework (science major level courses) prior to matriculation, with a pre-requisite GPA of 3.0 or higher. It is required that applicants earn a grade of C or better in all coursework:
  - One semester of general biology with lab
  - One semester of anatomy with lab (human anatomy preferred)
  - One semester of physiology with lab  
(One semester of anatomy and physiology with lab (4+ credit hour course) may be accepted for one semester of anatomy with lab and one semester of physiology with lab)
  - One semester of microbiology with lab
  - Two semesters of general chemistry (or equivalent) with lab
  - One semester of organic chemistry with lab
  - One semester of biochemistry (upper level course)
  - One semester of statistics
  - One medical terminology course
  - One semester of genetics (effective for the Spring 2024 application cycle)
  - One semester of psychology (effective for the Spring 2024 application cycle)
- Pre-requisite coursework must be completed at a regionally accredited college or university located in the United States or Canada, preferably within seven years of the application deadline.

**MCAT or GRE Score** – The MCAT or GRE exam is *no longer required*.

### Shadowing Experience

- It is recommended, but not required that candidates for the PA program shadow a PA prior to applying for the program as it is a significant opportunity to learn about the profession. Shadowing can occur in-person or virtually. Shadowing is a means by which a candidate might receive healthcare or patient care experience.
- Candidates will have the opportunity to document their shadowing experiences in the supplemental application provided in the PA Student Portal (after the CASPA application has been verified).
- To successfully verify shadowing experience, applicants must either have their shadowing experiences verified electronically by the shadowing provider or use the electronic Shadowing Experience Verification Form provided through the PA Student Portal (after the CASPA application has been verified).
- *Applicants can verify shadowing experiences one of two ways:*
  1. To verify a shadowing experience electronically, an applicant will need to list the name(s) and email address(es) of those providing a shadowing experience verification form in the PA Student Portal. After entering the information for each person electronically verifying the experience, an applicant will need to click “Send Email Request” in order for the person providing the verification to receive instructions for completing the online PA Program Shadowing Experience Verification Form.
  2. To verify a shadowing experience with the [Shadowing Experience Verification Form](#), applicants must download, print, and complete the information at the bottom of the form. After completing the information, ask the provider who supervised your experience to sign and date the verification form. An applicant will need to list the name(s) and email address(es) of those providing a shadowing experience verification form in the PA Student Portal (after the CASPA application has been verified). The PDF form should then be submitted directly to the PA Student Portal. Once the PA Student Portal has been submitted, no changes or additions to the PA Student Portal, including the shadowing experience section, may be made.

### Admissions Eligibility

- Must be a U.S. citizen or permanent resident. (International applicants are not eligible for admission.)
- Permanent resident status must be achieved by August 1 of the year before the spring term for which you are applying. A copy of the permanent resident card must accompany the **UMKC General Application for Admission**.
- While out-of-state students are welcome to apply to UMKC’s PA Program, preference and priority consideration is given to in-state students from the state of Missouri, followed by students from the state of Kansas.

**Recommended Transfer Courses for Physician Assistant Program:**

<b>PA Program Prerequisites</b>	<b>UMKC Course</b>	<b>JCCC Equivalent Course</b>
<b>One semester of general biology with lab</b>	BIOLOGY 108/108L General Biology I and Lab <b>OR</b> BIOLOGY 109/109L General Biology II and Lab	BIOL 135 Principles of Cell and Molecular Biology <b>OR</b> BIOL 150 Biology of Organisms*
<b>One semester of anatomy with lab (human anatomy preferred) AND one semester or physiology with lab</b>  <b>OR</b> <b>One semester of anatomy and physiology with lab, 4 credit hours</b>	BIOLOGY 218/218L Human Anatomy/Lab <b>AND</b> LS-PHYS 217 & BIOLOGY 217L Human Physiology/Lab	BIOL 140 Human Anatomy <b>AND</b> BIOL 225 Human Physiology*  <b>OR</b> BIOL 144 Human Anatomy and Physiology* <b>AND</b> BIOL 145 Human Anatomy and Physiology Dissection* (Transfers into UMKC as Biology Elective, but meets Anatomy/Physiology requirement)
<b>One semester of microbiology with lab</b>	BIOLOGY 113 Introductory Microbiology <b>AND</b> BIOLOGY 114 Microbiology & Disease Lab	BIOL 230 Microbiology* <b>AND</b> BIOL 231 Microbiology Lab*
<b>Two semesters of general chemistry with lab</b>	CHEM 211 General Chemistry I <b>AND</b> CHEM 211L Lab <b>AND</b> CHEM 212R General Chemistry II <b>AND</b> CHEM 212LR Lab	CHEM 124 General Chemistry I* <b>AND</b> CHEM 125 General Chemistry I Lab* <b>AND</b> CHEM 131 General Chemistry II* <b>AND</b> CHEM 132 General Chemistry II Lab*
<b>One semester of organic chemistry with lab</b>	CHEM 320/320L Elementary Organic Chemistry and Lab <b>OR</b> CHEM 321/321L Organic Chemistry I and Lab	CHEM 140 Principles of Organic and Biological Chemistry* <b>OR</b> CHEM 220 Organic Chemistry I*
<b>One semester of biochemistry (Upper Division)</b>	LS-BIOC 341 Basic Biochemistry	<i>No Equivalent, but prerequisites for this upper level course can be taken at JCCC</i>
Prerequisite for LS-BIOC 341	BIOLOGY 202 Cell Biology	<i>No Equivalent, but prerequisites for this course can be taken at JCCC</i>
Prerequisite for BIOLOGY 202	BIOLOGY 108 General Biology I	BIOL 135 Principles of Cell and Molecular Biology
Prerequisite for BIOLOGY 202	BIOLOGY 109 General Biology II	BIOL 150 Biology of Organisms*
Prerequisite for BIOLOGY 202	CHEM 212R General Chemistry II <b>AND</b> CHEM 212LR Lab	CHEM 131 General Chemistry II* <b>AND</b> CHEM 132 General Chemistry II Lab*
Prerequisite for CHEM 212R/LR	CHEM 211 General Chemistry I <b>AND</b> CHEM 211L Lab (Both with C- or better)	CHEM 124 General Chemistry I* <b>AND</b> CHEM 125 General Chemistry I Lab* (Both with C- or better)
<b>One semester of statistics</b>	STAT 235 Elementary Statistics	MATH 181 Statistics*
<b>One medical terminology course</b>	HLSC 125 Medical Terminology	HC 130 Medical Terminology for Healthcare Professions
<b>One semester of genetics</b>	BIOLOGY 206 Genetics	BIOL 205 General Genetics*
<b>One semester of psychology</b>	PSYCH 210 General Psychology	PSYC 130 Introduction to Psychology

## UMKC MASTER OF SCIENCE IN ANESTHESIA ADMISSION REQUIREMENTS,

See <http://med.umkc.edu/msa/requirements/> for complete information

### Coursework

- Applicants for admission to the MSA program must have earned, or will soon earn, a baccalaureate degree or higher from a regionally-accredited U.S. or Canadian college/university.
- It is recommended that applicants earn a cumulative GPA of 3.0 or higher.
- Applicants must complete the following pre-requisite courses at a regionally accredited college or university located in the United States or Canada prior to matriculation, with a pre-requisite GPA of 3.0 or higher. It is required that applicants receive a grade of “C” or better in pre-requisite courses:
  - Two semesters of biology with lab
  - Two semesters of general chemistry with lab
  - One semester of organic chemistry I with lab
  - One semester of organic chemistry II with lab
  - Two semesters of physics (sophomore level) with lab
  - One semester of biochemistry (upper-level)\*\*
  - One semester of human anatomy
  - One semester of physiology\*\*
    - One semester of human anatomy and physiology (4+ credit hour course) may be accepted for one semester of human anatomy and one semester of physiology.
  - One semester of statistics (quantitative-based)
  - One semester of mathematics (calculus, pre-calculus, additional statistics, college algebra or trigonometry)
  - One course in medical terminology

*\*\*Those courses marked with two asterisks must have been completed within five years of the application deadline.*

### MCAT or GRE Score

- The Medical College Admissions Test or the Graduate Record Examination is required.
- MCAT/GRE scores must have been earned within three years of the application deadline. The latest MCAT/GRE score accepted for the Final Application deadline is the July MCAT/GRE.
- Currently, there is no minimum score required for admission. The recommended minimum on the 2015 MCAT is a 494 composite score; the recommended minimum on the GRE is 300.
- When the MCAT/GRE has been taken more than once, component scores from different exams may not be combined. The highest MCAT/GRE score earned by an applicant will be used in the application.

### Shadowing Experience

- Experience shadowing an anesthesia provider (anesthesiologist, Anesthesiologist Assistant, or CRNA) is required prior to the application deadline. **Note:** the required shadowing hours may not be fulfilled within employment, internship, or class experiences.
- A minimum of ten (10) hours of shadowing experience is required. (The shadowing experience has been waived for the 2023 cycle. If an applicant is not able to shadow, they are required to do an informational interview with an AA. Instructions on the website and in the application.)

### Admissions Eligibility

- Must be U.S. citizens or permanent residents.
- Permanent resident status must be achieved by August 15 of the year before the spring term for which applicant is applying. A copy of the permanent resident card must accompany the UMKC General Application for Admission.
- International applicants are not eligible for admission to the MSA program.

### Recommended Transfer Courses for Master of Science in Anesthesia Program

MSA Program Prerequisites	UMKC Course	JCCC Equivalent Course
Two semesters of biology with lab	BIOLOGY 108/108L General Biology I and Lab <b>AND</b> BIOLOGY 109/109L General Biology II and Lab	BIOL 135 Principles of Cell and Molecular Biology <b>AND</b> BIOL 150 Biology of Organisms*
Two semesters of general chemistry with lab	CHEM 211 General Chemistry I <b>AND</b> CHEM 211L Lab <b>AND</b> CHEM 212R General Chemistry II <b>AND</b> CHEM 212LR Lab	CHEM 124 General Chemistry I* <b>AND</b> CHEM 125 General Chemistry I Lab* <b>AND</b> CHEM 131 General Chemistry II* <b>AND</b> CHEM 132 General Chemistry II Lab*
One semester of organic chemistry I with lab	CHEM 321/321L Organic Chemistry I and Lab	CHEM 220 Organic Chemistry I*
One semester of organic chemistry II with lab	CHEM 322R/322L Organic Chemistry II and Lab	CHEM 221 Organic Chemistry II*
Two semesters of physics with lab (sophomore level)	PHYS 210 General Physics I <b>AND</b> PHYS 220 General Physics II	PHYS 130 College Physics I* <b>AND</b> PHYS 131 College Physics II*
One semester of biochemistry (Upper Division)	LS-BIOC 341 Basic Biochemistry	<i>No Equivalent, but prerequisites for this upper level course can be taken at JCCC</i>
Prerequisite for LS-BIOC 341	BIOLOGY 202 Cell Biology	<i>No Equivalent, but prerequisites for this course can be taken at JCCC</i>
Prerequisite for BIOLOGY 202	BIOLOGY 108 General Biology I	BIOL 135 Principles of Cell and Molecular Biology
Prerequisite for BIOLOGY 202	BIOLOGY 109 General Biology II	BIOL 150 Biology of Organisms*
Prerequisite for BIOLOGY 202	CHEM 212R General Chemistry II <b>AND</b> CHEM 212LR Lab	CHEM 131 General Chemistry II* <b>AND</b> CHEM 132 General Chemistry II Lab*
Prerequisite for CHEM 212R/LR	CHEM 211 General Chemistry I <b>AND</b> CHEM 211L Lab (Both with "C-" or better)	CHEM 124 General Chemistry I* <b>AND</b> CHEM 125 General Chemistry I Lab* (Both with "C-" or better)
One semester of anatomy with lab (human anatomy preferred) <b>AND</b> one semester or physiology with lab  <b>OR</b> One semester of anatomy and physiology with lab, 4 credit hours	BIOLOGY 218/218L Human Anatomy/Lab <b>AND</b> LS-PHYS 217 & BIOLOGY 217L Human Physiology/Lab	BIOL 140 Human Anatomy <b>AND</b> BIOL 225 Human Physiology*  <b>OR</b> BIOL 144 Human Anatomy and Physiology* <b>AND</b> BIOL 145 Human Anatomy and Physiology Dissection* (Transfers into UMKC as Biology Elective, but meets Anatomy/Physiology requirement)
One semester of mathematics (calculus, precalculus, additional statistics, college algebra or trigonometry)	MATH 110 Precalculus Algebra MATH 125 Trigonometry MATH 120 Precalculus MATH 210 Calculus I MATH 220 Calculus II	MATH 171 College Algebra* MATH 172 Trigonometry* MATH 173 Precalculus* MATH 241 Calculus I* MATH 242 Calculus II*
One semester of statistics (quantitative-based)	STAT 235 Elementary Statistics	MATH 181 Statistics*
One medical terminology course	HLSC 125 Medical Terminology	HC 130 Medical Terminology for Healthcare Professions