

## Pre-Master of Science in Anesthesia Courses at UMKC

The following courses are required and/or preferred for entry into the UMKC Master of Science in Anesthesia program which prepares students to be anesthesiologist assistants (AAs). Be sure to also familiarize yourself with other requirements of the program such as GPA requirements, entrance tests, and job shadowing.

### Required Courses (\*courses indicated should be completed before taking the MCAT)

*English 110	English Composition I	3 hrs
*English 225	English Composition II	3 hrs
*Math 110	College Algebra	3 hrs
Math 210	Calculus I	4 hrs
Choose one:	Math 220      Calculus II	4 hrs (This may be waived based on MCAT
	Stat 235      General Statistics	3 hrs      scores, check with MSA director.)
*Biol 108	General Biology I	3 hrs
*Biol 108L	General Biology I Lab	1 hr
*Biol 109	General Biology II	3 hrs
*Biol 109L	General Biology II Lab	1 hr
LS Anat 118	Human Anatomy	3 hrs
LS Anat 118L	Human Anatomy Lab	2 hrs
LS Phys 117	Human Physiology	3 hrs
LS Phys 117L	Human Physiology Lab	1 hr
*Chem 211	General Chemistry I	4 hrs
*Chem 211L	General Chemistry I Lab	1 hr
*Chem 212	General Chemistry II	4 hrs
*Chem 212L	General Chemistry II Lab	1 hr
*Chem 321	Organic Chemistry I	3 hrs
*Chem 321L	Organic Chemistry I Lab	1 hr
*Chem 322	Organic Chemistry II	3 hrs
*Chem 322L	Organic Chemistry II Lab	1 hr
LS Bioc 365	Human Biochemistry I	3 hrs (Biol 202, Cell Biology, is a pre-req for this course at UMKC)
*Physics 210	General Physics I (includes lab)	4 hrs
*Physics 220	General Physics II (includes lab)	4 hrs
Total hours of Pre-MSA coursework:		<b>66 hrs</b>

### Preferred Courses

Biol 202	Cell Biology	3 hrs (Pre-req for LS Bioc 365 Human Biochemistry I at UMKC)
LS Phys 316	Principles of Physiology	3 hrs (Permission needed from School of Biological Sciences)

## Pre-MSA Courses at UMKC (con't)

Key characteristics of a strong MSA applicant include:

- Professionalism including reliability and accountability; honesty and integrity; compassion and respect; desire to help other people in need; and lifelong learning, self education, and other markers of excellence in the pursuit of providing healthcare of the highest quality.
- Maturity including toleration of anxiety and stress management, leadership, motivation for providing health care plus work experience, extracurricular participation, and other responsibilities.
- An experience shadowing an anesthesia provider for a minimum of eight hours is highly preferred and encouraged. Applicants should use the form provided in the supplemental application to describe and discuss the experience and to provide verification of completing the experience.

The following resources will be of assistance in exploring the MSA degree at UMKC and the AA profession:

UMKC's Homepage for Master of Science in Anesthesia  
<http://www.med.umkc.edu/MSA>

American Society of Anesthesiologists (ASA) FAQ's about the AA Profession  
<http://www.asahq.org/career/aa.htm>

American Academy of Anesthesiologist Assistants  
<http://www.anesthetist.org/>

For more information on preparation for the MSA, please contact:

Cary Lyon, Director of Pre-Health Sciences Programs, College of Arts & Sciences  
lyonc@umkc.edu      816-235-5874 (phone)      <http://cas.umkc.edu/premed>

For more information on the UMKC MSA program, please contact:

Lance Carter, Assistant Program Director for the MSA program  
carterla@umkc.edu      <http://www.med.umkc.edu/MSA>