

Medicine

Students must earn a bachelor's degree prior to admission to medical school. Pre-Medicine is not a major. There is no preferred major. In addition to earning a bachelor's degree, students must complete the courses required by the student's preferred medical school, score competitively on the MCAT, shadow practicing physicians, engage in community service and leadership activities, and are familiar with current health care issues.

Requirements at individual medical schools may vary. Students are responsible for knowing and completing the requirements of their major and those of the medical schools to which they plan to apply.

Core Sciences & Math:

BIOL 198	Principles of Biology	4
	Additional Biology w/ Lab	4
CHM 210	Chemistry I	4
CHM 230	Chemistry II	4
CHM 531	Organic Chemistry I	3
CHM 550	Organic Chemistry II	3
CHM 532	Organic Chemistry Lab	2
	(taken with or after CHM 550)	
PHYS 113	General Physics I	4
PHYS 114	General Physics II	4
MATH 220	Calculus I	4

(KU School of Medicine requires only College Algebra; however, most science majors require calculus)

Advanced Sciences & Courses Necessary for MCAT:

BIOCH 521	General Biochemistry	3
BIOL 450	Modern Genetics	4
BIOL 441/442	Human Body (A&P)	4/4
BIOL 541	Cell Biology	3
BIOL 455	General Microbiology	4
PSYCH 110	General Psychology	3
SOCIO 211	Intro to Sociology	3
STAT 325	Intro to Statistics	3
	OR	
STAT 340	Biometrics	3

Other Suggested Courses:

ANTH 315	Intro to Medical Anthropology	3
BIOL 330	Public Health Biology	3
BIOL 365	Practicum-Cadaver Team	variable
BIOL 620	Evolution	3
BIOL 670	Immunology	3
CLSCS 105	Latin & Green for Scientists (Medical Terminology)	3
COMM 480	Intercultural Communication	3
ECON 688	Economics of Healthcare	3
EDSP 415	Manual Communication	3
FNDH 400	Human Nutrition	3
FNDH 720	Adm. Health Care Org.	3
GERON 315	Introduction to Gerontology	3
HIST 520	Death & Dying in History	3
HIST 534	Social History of Medicine	3
PSYCH 470	Psychobiology	3
PSYCH 518	Health Psychology	3
PSYCH 520	Lifespan Personality Dev.	3
SOCIO 510	Social Welfare as a Soc. Inst.	3
SOCIO 541	Wealth, Power, & Privilege	3
SOCWK 320	Dynamics of Working with Older Adults	3
THTRE 665	Drama Therapy Special Pops.	3

Early and regular consultation with the Pre-Medical Advisor is recommended.

Students are responsible for knowing and completing the requirements of their major and those of the medical school(s) to which they plan to apply.

The courses on the previous page meet the minimum requirements for application to most medical schools and prepare students for the MCAT. They need to be completed by the end of the spring semester prior to the final year of college. For most traditional students who are on a 4 year college plan, this means by the end of the spring semester of the junior year. There are many ways to sequence these courses. None is perfect or preferred. How individual students sequence these courses depends on their major, hours taken each semester, and their other responsibilities and involvements. This is an example of **one way** to do it:

1 st Fall	1 st Spring	1 st Summer
BIOL 198 CHEM 210	BIOL 455 CHM 230	Phys 113 Shadowing, community service, medically related experiences.
2 nd Fall	2 nd Spring	2 nd Summer
CHM 531 BIOL 441 PSYCH 110	CHM 550 CHM 532 BIOL 442 SOCIO 211	Phys 114 Shadowing, community service, medically related experiences.
3 rd Fall	3 rd Spring	3 rd Summer
STAT 325 or 340 BIOL 450 Begin MCAT Preparation in earnest during the break between semesters.	BIOCH 521 BIOL 541 *PHILO 365 200-300 hours MCAT preparation	More MCAT preparation Take MCAT - late May to mid-July Apply by mid-August Shadowing, community service, medically related experiences.
4 th Fall	4 th Spring	4 th Summer
Medical School Interviews	Medical School Interviews	Medical School Begins or Gap Year

Helpful Websites:

Association of American Medical Colleges: <https://www.aamc.org/>
 American Association of Colleges of Osteopathic Medicine: <http://www.aacom.org/Pages/default.aspx>
 American Association of Colleges of Podiatric Medicine: <http://www.aacpm.org/>
 Medical College Admission Test: <https://www.aamc.org/students/applying/mcat/mcat2015/>
 Medical School Admission Requirements: <https://www.aamc.org/students/applying/requirements/msar/>
 KU School of Medicine Premedical Student Programs:
<http://www.kumc.edu/school-of-medicine/education/premedical-programs.html>
 Explore Health Careers: www.explorehealthcareers.org
 K-State Undergraduate Catalog: <http://catalog.k-state.edu/>
 K-State Transfer Equivalency: <http://www.k-state.edu/undergradadmit/transferequivalency.html>
 K-State Alternative Breaks: <http://www.k-state.edu/leadership/programs/altbreaks/>
 Secondary Major/Gerontology: <http://www.he.k-state.edu/aging/programs/ugrad/secondary-major.php>
 Konza United Way: <http://getconnected.konzaunitedway.org/>
 HandsOn K-State: <http://handson.k-state.edu>
 Flint Hills Community Center: <https://www.flinthillsvolunteercenter.com/>

K-State Pre-Medicine Advisor Contact:

Kaela Urquhart, EdD
 Health Professions Advisor
 107 Calvin Hall
 Manhattan, KS 66506-1011
 785-532-6904
kaelaurquhart@ksu.edu

Revised September 2017