



Division of Biological Sciences

University of Missouri

Core Science Requirements for Bachelor of Science		Med School (MCAT)	Dental School (DAT)	Optometry School (OAT)	Physician Assistant School (GRE)	Podiatry (MCAT)	Vet School (GRE)	Pharmacy (PCAT)
Bio 1500 Intro to Biology		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bio 2200 General Genetics		Yes	Yes	Yes	Yes	Yes	Yes	(Pre-req for other courses)
Bio 2300 Cell Biology		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bio 3400/4600 (Evolution Requirement)								
Microbio 3200 Medical Microbiology	Bio 3750/3002 General Microbiology	Recommended	Recommended	Yes	Yes	Recommended	Yes	Yes
(Biology Diversity Requirement)								
Bio 3700* Animal Physiology		Yes	Yes	Recommended	Yes	Yes	Recommended	
Biochemistry 4270* Biochemistry I		Yes	Yes	Yes		Recommended	Yes	Recommended
Chem 1320 Gen. Chemistry I		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Chem 1330 Gen. Chemistry II		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Chem 2100 Organic Chem I		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Chem 2110 Organic Chem II		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Chem 2130 Organic Chem Lab I		Yes	Yes	Yes		Yes	Yes	Yes
Physics 1210 College Physics I		Yes	Yes	Yes		Yes	Yes	Yes
Physics 1220 College Physics II		Yes	Yes	Yes		Yes	Yes	
Math 1400/1500 Calculus I		Recommended	Recommended	Yes		Recommended		Math 1500
Stats 1200/1400 Elementary Statistics		Yes	Yes	Yes	Yes	Yes	Yes	

Interpreting the Chart:

* - Biology Elective Option

Yes - Required for admission or entrance exam

Use this chart as a starting point, but also always check admissions requirements for specific programs you're interested in.

Biological Sciences and Pre-Professional Tracks

(Medical, Physician Assistant, Podiatry, Dental, Pharmacy, Optometry & Veterinary)

Medical, Physician Assistant & Podiatry Schools

Helpful additional classes to take:

- ☐ COMMUN 1200 Public Speaking- General Ed Humanity
- ☐ SRV_LRN 2021W MU Community Engagement- Writing Intensive- General Ed Humanity
- ☐ PHIL 2440 Medical Ethics- General Ed Humanity
- ☐ HLTH_SCI 4300H Health Care in the U.S.- General Ed Social Science
- ☐ PSYCH 1000 General Psychology- General Ed Behavioral Science
- ☐ SOCIOL 2200 Social Inequalities- General Ed Behavioral Science or Social Science



Dental School

Helpful additional classes to take:

- ☐ ART_CERM 2100 Beginning Ceramics- General Ed Humanity
- ☐ ART_FIBR 2300 Beginning Fibers- General Ed Humanity
- ☐ ACCTY 2010 Introduction to Accounting -General Ed Social Science
- ☐ PHIL 2440 Medical Ethics- General Ed Humanity
- ☐ HLTH_SCI 4300H Health Care in the U.S.- General Ed Social Science
- ☐ PSYCH 1000 General Psychology- General Ed Behavioral Science
- ☐ COMMUN 1200 Public Speaking- General Ed Humanity



Pharmacy School

Helpful additional classes to take:

- ☐ COMMUN 1200 Public Speaking- General Ed Humanity (Required for UMKC Pharmacy)
- ☐ PHIL 2440 Medical Ethics- General Ed Humanity
- ☐ PSYCH 2220 Drugs and Behavior - General Ed Behavioral Science
- ☐ HLTH_SCI 4300H Health Care in the U.S.- General Ed Social Science
- ☐ CDS 2190- Medical Terminology (Required for UMKC Pharmacy)



Optometry School

Helpful additional classes to take:

- ☐ COMMUN 1200 Public Speaking- General Ed Humanity
- ☐ PSYCH 2210 Mind, Brain & Behavior- General Ed Behavioral Science
- ☐ PHIL 2440 Medical Ethics- General Ed Humanity
- ☐ HLTH_SCI 4300H Health Care in the U.S.- General Ed Social Science



Veterinary School

Helpful additional classes to take:

- ☐ COMMUN 1200 Public Speaking- General Ed Humanity (Required for many Vet schools)
- ☐ PHIL 2440 Medical Ethics- General Ed Humanity
- ☐ PSYCH 1000 General Psychology- General Ed Behavioral Science
- ☐ ACCTY 2010 Introduction to Accounting- General Ed Social Science
- ☐ ECON 1014 Microeconomics- General Ed Social Science
- ☐ PSYCH 2830 Human Animal Companion- General Ed Behavioral Science



Other Recommended Science Courses

- ☐ Bio 4990-Histology
- ☐ Biochem 4272- Biochemistry II
- ☐ Pth As 2201- Human Anatomy (Required for most Dental, Optometry, Pharmacy & PA schools)
- ☐ Pth As 2203- Human Anatomy Lab (Required for most Dental, Optometry, Pharmacy & PA schools)
- ☐ CDS 2190- Medical Terminology (Required for some programs)