

EXERCISE SCIENCE MAJOR PRE-PHYSICIAN ASSISTANT COURSE SEQUENCE

The following course sequence is recommended; however, there is flexibility within the schedule.

BIOL 221 must be taken before taking KIN 321. KIN 150 should be taken as early as possible and before KIN 321. MATH 115 must be completed before taking KIN 310. KIN 200 must be taken before KIN 300, and KIN 300 must be taken before KIN 383. Additionally, KIN 321 must be completed before taking KIN 421. KIN 321, 310, CHEM Pre-req., and MATH 115 must be completed before taking KIN 422.

The following sequence of courses serves as a suggestion only. PA schools may have different pre-requisites; therefore, you should see the health professions advisor **AND** an exercise science advisor as soon as possible. In addition, you should check required courses for graduate schools to which you plan to apply.

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
FALL	FALL	FALL	FALL
*BIO 105/107 – General Biology I & Lab CHEM 125/127 – General Chemistry I & Lab OR *CHEM 131/132 – Intensive General Chemistry & Lab KIN 150 – Intro to Writing in Exercise Science	BIO 221/221L - Human Physiology & Lab *CHEM 221/255 – Organic Chemistry I & Lab KIN 208 – Intro to Nutrition MATH 115 – Intro Statistics	*CHEM 311 – Biochemistry I KIN 300/300L – Anatomical Kinesiology & Lab KIN 321/321L – Exercise Physiology & Lab KIN 310/310L – Research Methods & Lab +*BIO 301/301L – General Microbiology & Lab (If not taking BIO 231) *PSY 300-499 – Upper Level Psychology Class	KIN 499 – Special Studies OR KIN 299 – Internships KIN 422/422L – Regulation of Human Metabolism & Lab
SPRING	SPRING	SPRING	SPRING
*BIO 106 – General Biology II & Lab KIN 150 – if not previously taken KIN 200/200L - Human Anatomy & Lab *CHEM 126/128 – General Chemistry II & Lab (if you did not take CHEM 131) *PSY 100 – Introduction to Psychology	*BIO 231/231L – Biology of Microorganisms & Lab (If not taking BIO 301) *CHEM 231/256 – Organic Chemistry II & Lab KIN 200200L – (if not previously taken) KIN 321/321L – Exercise Physiology & Lab *PSY 230/230F – Developmental Psych. & Field Placement	KIN 383/383L – Biomechanics & Lab KIN 421/421L – Clinical Exercise Physiology & Lab *PSY 300-499 – Upper Level Psychology Class (if not taken previously) KIN 310/310L – Research Methods & Lab (if not previously taken)	

*NOT required for exercise science major, but required for most PA schools. Check requirements for intended grad schools.

+Preferred by some PA schools

LJ – updated 9/26/23

EXERCISE SCIENCE MAJOR PRE-PHYSICIAN ASSISTANT TRACK

REQUIRED COURSES:

		<u>Credits</u>	<u>Sem</u>	<u>Prerequisites</u>
KIN 150	Introduction to Writing in Exercise Science	1	F/S	
KIN 200/200L	Human Anatomy (BIO 222)	3+1	F/S	
KIN 208	Introduction to Nutrition	3	F/S	
KIN 300/300L	Anatomical Kinesiology	3+.50	F	KIN 200/200L
KIN 310/310L	Research Methods in Kinesiology	3+1	F/S	MATH 115
KIN 321/321L	Exercise Physiology & Lab	3+1	F/S	BIO 221
KIN 421/421L	Clinical Exercise Physiology & Lab	3+1	F/S	KIN 321/321L; BIO 221
KIN 383/383L	Biomechanics	3+.50	S	KIN 200/200L; KIN 300/300L
KIN 422/422L	Regulation of Human Metabolism	3+1	F/S	KIN 310/310L; KIN 321/321L, & and CHEM Pre-req.
KIN 499	Special Studies in Exercise Science	3	F/S	KIN 310/310L
OR				
KIN 299	Internships	3	F/S/Summer	

REQUIRED CORE COURSES:

CHEM 125/127	General Chemistry I & Lab	3+1	F	
BIOL 221/221L	Human Physiology & Laboratory	3+1	F	
MATH 115	Introductory Statistics	3	F/S	

REQUIRED BY MOST PA SCHOOLS: (not required for exercise science major)

BIO 105/107	General Biology I & Lab	3+1	F	
BIO 106/108	General Biology II & Lab	3+1	S	
BIO 231/231L	Biology of Microorganisms & Lab	3+1	S	BIO 103 & CHEM 103 or equivalents
OR				
+BIO 301/301L	General Microbiology & Lab	3+1	F	BIO 105, BIO 106; BIO 107 & BIO 108 or equivalents
CHEM 125/127	General Chemistry I & Laboratory	3+1	F	Written permission from instructor
OR				
CHEM 131/132	Accelerated General Chemistry & Lab	3+1	F	Written permission from instructor
*CHEM 126/128	General Chemistry II & Lab	3+1	S	C- or better in CHEM 125
CHEM 221/255	Organic Chemistry I & Lab	3+1	F	C- or better in CHEM 126 or 131
CHEM 231/256	Organic Chemistry II & Lab	3+1	S	C- or better in CHEM 221
CHEM 311	Biochemistry I	3	F	C- or better in CHEM 231
PSY 100	Introduction to Psychology	3	F/S	
PSY 230/230F	Developmental Psych. & Field Placement	3+1	F/S	PSY 100
PSY 300-499	Upper Level Psychology	3 or 3+1	F/S	PSY 100

REQUIRED BY SOME PA SCHOOLS: (not included in suggested sequence)

BIO 355/355L	Developmental Biology & Lab	3+1	S	BIO 105, BIO 106; BIO 107 & BIO 108 or equivalents
BIO 356/357	Genetics & Lab	3+1	S	BIO 105, BIO 106; BIO 107 & BIO 108 or equivalents
BIO 366/366L	Molecular Biology & Lab	3+1	F	BIO 105, BIO 106; BIO 107 & BIO 108 or equivalents; CHEM 231
NURS 260	Pharmacology	3	S	Written permission from dept. chair; BIO 103, BIO 221, BIO 222 or KIN 200, BIO 231, CHEM 103; all with C or better
NURS 320	Pathophysiology	3	F	Written permission from dept. chair; BIO 103, BIO 221, BIO 222 or KIN 200, BIO 231, CHEM 103; all with C or better
PHYS 105/107	College Physics I & Lab	3+1	F	
PHYS 106/108	College Physics II & Lab	3+1	S	
KIN 209	Medical Terminology	2	F/S/Summer	

* if you did not take CHEM 131

+preferred by some PA schools

NOTE: See catalog for kinesiology electives options.