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**DEPARTMENT OF KINESIOLOGY**

**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.

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| --- | --- | --- | --- |
|  FRESHMAN |  SOPHOMORE |  JUNIOR |  SENIOR |
| FALL | FALL | FALL | FALL |
| \*BIO 105/107 – General Biology I & LabCHEM 125/127 – General Chemistry I & LabOR\*CHEM 131/132 – Intensive General Chemistry & LabKIN 150 – Intro to Writing in Exercise Science  | BIO 221/221L - Human Physiology & Lab\*CHEM 221/255 – Organic Chemistry I & LabKIN 208 – Intro to NutritionMATH 115 – Intro Statistics | \*CHEM 311 – Biochemistry IKIN 300/300L – Anatomical Kinesiology & LabKIN 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 & LabKIN 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 & LabKIN 200200L – (if not previously taken)KIN 321/321L – Exercise Physiology & Lab\*PSY 230/230F – Developmental Psych. & Field Placement | KIN 383/383L – Biomechanics & LabKIN 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) |  |

**EXERCISE SCIENCE MAJOR PRE-PHYSICIAN ASSISTANT TRACK**

**REQUIRED COURSES:** Credits Sem Prerequisites

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.