

TCNJ Department of Kinesiology and Health Sciences

KHS-PT- 4 YEAR SEQUENCE

PR = TJU pre-requisite Blue – KHS Core Curriculum (KHS) – 16 units / Green - Liberal Learning (LL) – 7 units /
 Orange - Elective - 2 unit /Pink– PT/Pre-req only – 7 units
 Total = 32 units

YEAR 1		Fall Semester 1		Spring Semester 2	
Units	Course	Goal	Units	Course	Goal
1 PR	FYW 102-Academic Writing (if tested out/completed-take STA115)	LL-Proficiencies	1	FYS: First Year Seminar	LL-Proficiencies
0	IDS 102-Info Lit Proficiency	LL- Proficiencies			
0	Comm Engaged Learning CEL	LL-Civic Resp		MAT 095???	Pre-Req
1 PR	BIO 171 1 (KHS Correlate)	LL- Nat Sci-Breadth,, PT	1 PR	BIO 201 (or BIO 200 if offered/ not on radar yet)	PT and NS#2
1 PR	KHS 203 Anatomy & Physiology	KHS1 and PT	1 PR	KHS 205 Applied Anat. & Phys	KHS3 and PT
1	KHS 172 Foundations of KHS (or KHS 160)	KHS2	1	KHS 160 Health & Wellness Issues (or KHS 172) (KHS Correlate & BCS LL	KHS4 and LL Behav/Cultural
4			4		
YEAR 2		Fall Semester 3		Spring Semester 4	
Units	Course	Goal	Units	Course	Goal
1	MAT 120 Pre-Calc (pre/co-req for CHE 201/PHY)	PT and LL Nat Sci Additional	1 PR	Stat 115 or 215 (KHS Correlate & QR LL)	KHS/QR LL
1 PR	CHE 201 Chemistry I/Lab (pre/coreq MAT 120 Pre-Calc)	PT and LL Nat Sci Additional	1 PR	CHE 202- Chemistry II/Lab	PT and EL
1	KHS 250 Nutrition and Metabolism (prereq BIO 171 or 201& KHS 203)	KHS 5	1 PR	PSY 101 - General Psychology (BCS LL) or PSY course	PT and LL-BCS#2
1	KHS 210: Applied Strength & Conditioning –	KHS 6	1	KHS 211 Applied Physiology (prereq BIO 171 or 201, KHS 203)	KHS 7
12	Elective	Elective			
YEAR 3		Fall Semester 5		Spring Semester 6 (REQUIRES OVERLOAD @ 5.25)	
Units	Course	Goal	Units	Course	Goal
1 PR	PHY 121 - Principles of Physics/Lab (pre/co req MAT 120)	PT-Elective	1 PR	PHY 122 - Physics II/Lab	PT-Elective
1	Liberal Learning (WVWK that covers 1-2 Civic Resp)	LL (self select)	1	KHS 301 Biomechanics	KHS 10
1	KHS 302 Assessment & Eval of Human Performance Research	KHS 8	1	KHS 320 Research Methods for KHS	KHS 11
1	Liberal Learning (LVPA that covers 1-2 Civic Resp)	LL- (self select)	0.25	KHS 397 Jr Internship II	KHS 12
0.25	KHS 396 Jr Internship I	KHS 9	1	KHS 300: Pediatric Exercise	KHS 13
20.25			24.5		
YEAR 4		Fall Semester 7		Spring Semester 8	
Units	Course	Goal	Units	Course	Goal
1	Elective	Elective	1	Elective	elective
1	Liberal Learning (HP that covers 1-2 Civic Resp)	LL- (self select)	1.5	KHS 496 Sr. Internship	KHS 16
1	KHS 405 Clinical Exercise Physiology	KHS 14	1	KHS 497 Seminar in KHS (Capstone)	KHS 17
1	KHS 410 Exercise Physiology And Exercise Prescription	KHS 15	0	KHS 499: EIM Responsibilities	KHS 18
28.5			32		

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PRE-REQS for TJU PT Program Per page 4 of the articulation agreement.

TJU Pre-Reqs/Credits	TCNJ Equivalent Courses All Pre-Reqs must be taken at TCNJ	Course Descriptions All TCNJ courses are 4 credits/1 Unit
A&P 1 & 2/Labs (8 credits)	KHS 203/lab KHS 205/lab	<p>KHS 203/ Anatomy and Physiology I 1 course unit (with laboratory) This course is designed to prepare students on the basic scientific principles of Anatomy and Physiology. A systematic study of homeostasis involving all structure and function of the human body. Course topics will include biological terminology, from the cellular level through the fundamental Systems of the Body. Growth and development of the body's framework, movements, homeostatic balance for health and wellness will be emphasized.</p> <p>HES 205/Applied Anatomy and Physiology II 1 course unit (with laboratory) (spring) This course is designed to prepare students on the basic scientific principles of Human Anatomy and Physiology. A comprehensive systematic study of "balance" involving all structures and function in the human body will be performed. Course topics will begin with basic anatomical terminology, from the human skeleton system, to the nervous system, muscle tissue, and the muscle system including the "Sliding Filament Theory" of muscular contraction. Growth and development, aging and rehabilitation will be emphasized. Laboratory experiences and virtual dissections included.</p>
General Bio 1 & 2 w/Lab (8 credits)	BIO 171/lab BIO 201/lab	<p>BIO 171/Human Form and Function. 1 course unit (with laboratory) (fall, spring, summer, annually) The form and function of the human body are highlighted to illustrate the interdependence of structure and function. Evolution of these attributes are contrasted and explored. The basic principles governing life, and the relationship of biology to other scientific disciplines and mathematics are explored, as are the influence of biology on society and the accompanying ethical issues.</p> <p>BIO 201/ Foundations of Biological Inquiry 1 course unit. (with laboratory) (fall, spring, annually) An inquiry-based introduction to the scientific process and a focused examination of the concepts that weave through four major themes in biology: Structure and Function; Bioenergetics; Genotype to Phenotype; and Evolution. Students will be expected to go beyond mere assimilation of content, and to understand the deeper meanings in each concept, apply these concepts to new problems, and develop critical thinking and laboratory skills. This course is designed for</p>

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	<p>Not suggested, but could be used for ss coming in with BIO 171 equivalent.</p> <p>BIO 211</p>	<p>biology majors, but is open to students in other majors who seek a rigorous background in biology</p> <p>BIO 211/Biology of the Eukaryotic Cell (with recitation) An introduction to the nomenclature, origin, and function of essential molecules and cellular components of living organisms. Structural and functional characteristics of various eukaryotic cells demonstrate that the molecular and cellular levels of organization are intimately integrated</p>
<p>General Chemistry 1 & 2 w/Labs (8 credits)</p>	<p>CHEM 201/lab CHEM 202/lab</p>	<p>CHE 201/General Chemistry I (with laboratory)) Co-requisite: MAT 120. Laws and theories of matter in its various states: atomic and molecular structure from quantum and orbital interpretations; kinetics and equilibrium; periodicity and properties. Quantitative experiments coordinated with lectures. A working knowledge of elementary algebra is required. Successful completion of a high school chemistry course is strongly recommended.</p> <p>CHE 202/General Chemistry II (with laboratory) (fall, spring, summer session II). Laws and theories of matter in its various states: atomic and molecular structure from quantum and orbital interpretations; kinetics and equilibrium; periodicity and properties. Quantitative experiments coordinated with lectures. A working knowledge of elementary algebra is required.</p>
<p>Physics 1 & 2 w/Labs (8 credits)</p> <p>algebra or calculus based</p>	<p>PHY 121/lab PHY 122//lab</p>	<p>Both are algebra-based physics courses.</p> <p>PHY 121/Principles of Physics (with laboratory). . Centered around the basic laws of physics, emphasis is on a conceptual understanding of the natural world regarding concepts which comprise it and their connections and relationships to each other. Topics include force, motion, momentum, energy and gravitation. Laboratory emphasis is given through hands-on activities</p> <p>PHY 122/Principles of Physics II (with laboratory). Physical laws and concepts which clarify understanding of the physical environment. Stress on unity of physical ideas. Topics include wave motion, electric charges and fields, magnetism, light, and atomic and nuclear physics</p>

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<p>Statistics (any) (3 credits)</p>	<p>STA 115* or STA 215</p>	<p>STA 115/Statistics. This course introduces the students to statistical ideas and concepts with an emphasis on the interpretation of data and the communication of statistical results. Topics include sampling, surveys, experimental designs, observational studies, data exploration, chance phenomena, and methods of statistical inference.</p> <p>STA 215/Statistical Inference A comprehensive introduction to descriptive statistics and the essential ideas of probability. Students will study foundations of classical parametric inference: point estimation, confidence intervals, hypothesis testing and common statistical techniques including simple regression and correlation. Examples will be drawn from a variety of social and natural sciences. Prerequisite: MAT 125 or MAT 127</p>
<p>Psychology (any) (3 credits)</p>	<p>PSY 101 or PSY Course</p>	<p>PSY 101: Introduction to major topics in psychology, including biopsychology, development, cognition, counseling-clinical psychology, social psychology, and psychology in industrial/organizational settings</p>
<p>English Composition (3 credits)</p>	<p><u>FWS 102</u>/other approved EC course</p>	<p>FWS 102 offers students the opportunity to develop, advance, and practice skills in the production of academic prose. Within a framework of sophisticated readings, highly coordinated writing workshops, and instructor feedback, students practice rhetorical approaches to the writing necessary to succeed in college. Students read critically, cultivate habits of effective and ethical research, practice conventions of documentation, and use information technologies. Topical readings vary among sections.</p>