

**General Program Requirements for Doctoral Degree in Kinesiology with an Emphasis in Integrative Physiology of Exercise**

Number of Didactic Credits Required Beyond the Baccalaureate: 68 s.h. (*Note: Please refer to Policies and Procedures of the Temple University Graduate School for advanced standing or transfer of credit for graduate coursework taken as a non-matriculated student*)

<b>Required Courses (15 s.h.)</b>	<b>Course Number (s.h.)</b>	<b>Course Title</b>
Kinesiology Kinesiology Kinesiology Intermediate Statistics Advance Statistics	9901 (3) 9683 (3) 9783 (3) Approved courses for 6 semester hours	Res Methods Kinesiology Mentored Research I Mentored Research II
<b>Required Exercise Physiology Core (12 s.h.)</b>		
Kinesiology Kinesiology Kinesiology Kinesiology	5311 (3) 9201 (3) 9204 (3) 9203 (3)	Exercise Physiology Cardiovascular Ex Phys Cellular Adapt to Exer Appl Ex Physio-Neuromusc
<b>Required Biome dical Interdisciplinary Core (8 s.h.)</b>		
Medical School  Medical School	5003 (4) <b>or</b> 8004 (4)  <b>and</b> 5005 (4) <b>or</b> 5006 (4)	Fundamentals of Biochemistry <b>or</b> Structure and Function of Macromolecules  Fundamentals of Molecular & Cell Biology <b>or</b> Basis of Microbiology & Immunology
<b>Required Integrated Bioscience Course (Two of the Following Courses – 6 -8 s.h.)</b>		
Molecular Biology & Genetics Micobiology & Immunology Pathology Anatomy and Cell Biology Molecular Biology & Genetics Pharmacology Physiology Micorbiology & Immunology Biochemistry Molecular Biology & Genetics	8309 (3) 5351 (3) 8401 (3) 8402 (4) 8451 (3) 5751 (3) 5851 (3) 9802 (3) 8251 (3) 5451 (3)	Principals of Genetics Host-Pathogen Interactions Principals of Organ Pathology Cell Structure and Function Cancer Biology Principals of Pharmacology Principals of Physiology Molecular Approaches to Research Proteins and Enzymes Principals of Development

Continued.

<b>Elective Courses (25 to 27s.h)</b>		
Kinesiology	5312 (3)	Exercise + Nutrient Metb
Kinesiology	5313 (3)	Exercise + Aging
Kinesiology	9311 (3)	Biomech of Human Mvmt
Kinesiology	9401 (3)	Psych Bases of Motor Beh
Kinesiology	9402 (3)	Psych of Human Mut & Dev
Kinesiology	9101 (3)	Pedagogy in Higher Ed
Kinesiology	9205 (3)	Exer Testing + Prescrip
Kinesiology	9206 (3)	Intro to Environ Physiol
Biology	8467 (3)	Endocrinology
Biology	8475 (3)	Biochemistry
Physiology	9204 (2)	Ion Channels/Nerve & Muscle
Physiology	9809 (2)	Concepts of Molecular Physiology
Physiology	9802 (3)	Molecular Physiology
Physiology	9808 (1)	Renal Physiology
Physiology	9819 (1)	Gastrointestinal Physiology
Physiology	9804 (2)	Pulmonary Physiology
Physiology	9805 (2)	Cardiovascular Physiology
Physical Therapy	9101/9204 (6)	Human Gross Anatomy
Physical Therapy	9645 (3)	Advanced Musculoskeletal Anatomy
Electives offered in Kinesiology or other graduate departments. Approval by two graduate faculty members required.		
<b>Required Comprehensive Exam for Candidacy and Dissertation Research (10 s.h.)</b>		
Kinesiology	9994 (1)	Preliminary Exam Prep
Kinesiology	9998 (3)	Pre-Dissertation Res
Kinesiology	9999 (6)	Doctoral Dissertation

