# Bachelor of Science Degree College of Liberal Arts and Sciences, ASU Department of Kinesiology (KIN)

Undergraduate Academic Advising, PE West, Room 218, (480) 965-3875

# MINIMUM GRADE OF "C" REQUIRED IN ALL PREREQUISITE AND MAJOR COURSES

I.	<b>REQUIRED GENERAL STUDIES COURSES</b> (18 cr.) (prerequisites for KIN core courses):
	BIO 201 (SG) – (prerequisite for KIN 335, KIN 340, KIN 345)
	BIO 202 (NS) – (prerequisite for KIN 340)
	CHM 101 (SQ) – (prerequisite for KIN 340)
	PGS 101 (SB) – (prerequisite for KIN 345, KIN 352)
	PHY 111 – (prerequisite for KIN 335)
	Required Math Courses:
	MAT 210 or 251 or higher (MA) – (prerequisite for KIN 335)
II.	<b>PRE-CORE</b> (May be taken concurrently with Scientific Core.) (2 cr.):
	KIN 200 Introduction to Kinesiology (2 cr.)
III.	SCIENTIFIC CORE (12 cr.):
	KIN 335 Biomechanics
	KIN 340 Physiology of Exercise
	KIN 345 Motor and Developmental Learning
	KIN 352 Psychosocial Aspects of Physical Activity
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IV.	AREAS OF CONCENTRATION (24 cr.)
	There are two concentrations in Kinesiology. Students must select one of these concentrations. They are
	Kinesiology and Human Physiology.
*Courses meeting Literacy and Critical Inquiry (L) requirements:	
Cu	KIN 414 Electromyographic Kinesiology (prerequisite: KIN 335, KIN 340)
	KIN 421 Human Motor Control (prerequisite: KIN 345: effective Fall 2006)
	KIN 422 Motor Control in Special Populations (prerequisite: KIN 345)
	KIN 421 Human Motor Control (prerequisite: KIN 345; effective Fall 2006)  KIN 422 Motor Control in Special Populations (prerequisite: KIN 345)  KIN 423 Motor Control and Aging (prerequisite: KIN 345; effective Fall 2006)
	KIN 441 Physiology of Women in Sport (prerequisite: KIN 340)
	KIN 443 Exercise Endocrinology (prerequisite: KIN 340)
	KIN 448 Applied Sport Psychology (prerequisite: KIN 352)
	KIN 446 Applied Sport I sychology (prerequisite: KIN 352)  KIN 460 Theory of Strength Training (prerequisite: KIN 340)
*Th4	ere are other L courses in the university
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#### KINESIOLOGY CONCENTRATION

For the student interested in more applied aspects of exercise and sport performance, e.g., strength and conditioning, sports medicine, sport skill acquisition, exercise physiology, biomechanical techniques in exercise and sport, sport psychology.

**Kinesiology** – 24 credits: Part A and Part B must be completed. Fifteen credits must be upper division level.

# Part A: 9credits

Choose from:

KIN 100 Introduction to Health and Wellness

KIN 110 Research Analysis Laboratory Course (Maximum 3 credits)

KIN 191 Freshman Seminars

KIN 283 Prevention and Care Athletic of Injuries

KIN 294 Research Methods I or equivalent (3cr.)

KIN 334 Functional Anatomy and Kinesiology

KIN 348 Psychological Skills for Optimal Performance

KIN 370 Advanced First Aid

### Part B: 15 credits

KIN 412 Biomechanics of the Skeletal System

KIN 413 Qualitative Analysis in Sport Biomechanics

KIN 441 Physiology of Women in Sport

KIN 442 Fuel Metabolism

KIN 444 Metabolic Adaptations to Exercise Training

KIN 445 Exercise Physiology for Children and Adolescents

KIN 448 Applied Sport Psychology

KIN 450 Biopsychosocial Perspectives of Physical Activity & Health

KIN 460 Theory of Strength Training

KIN 484 (1-9 cr.) Internship

KIN 485 Advanced Techniques of Athletic Training

KIN 492 Honors Directed Study (1-9 cr.)

KIN 493 Honors Thesis (1-9 cr.)

KIN 494 ST: Environmental Exercise Physiology

KIN 494 ST: Exercise Electrocardiogram (ECG) Interpretation

KIN 494 ST: Interpretation of Exercise Performance

KIN 498 Pro Seminar: Kinesiology and the Future (1 credit max-taken in senior year)

KIN 499 Individualized Instruction (1-9 cr.)

Other KIN courses with advisor approval

#### **HUMAN PHYSIOLOGY CONCENTRATION**

For the student interested in pre-health professions and those interested in biomechanical, physiological, motor control, and/or psychological mechanisms underlying human movement performance. Students interested in pursuing post-baccalaureate training in one of several possible professions in the health care industry (e.g., physical therapy, recreational therapy, occupational therapy, physician's assistant, medicine, dentistry, podiatry, chiropractic, etc.) will have additional course work in the sciences to complete (see department for list).

*Human Physiology* – 24 credits: Part A and Part B must be completed. Fifteen credits must be upper division level.

# Part A: 9 credits

Choose from:

KIN 110 Research Analysis Laboratory Course (Maximum 3 credits)

KIN 191 Freshman Seminars

KIN 334 Functional Anatomy and Kinesiology

KIN 370 Advanced First Aid

BCH 361 Principles of Biochemistry

**BIO 340 General Genetics** 

**BIO 353 Cell Biology** 

**BIO 360 Animal Physiology** 

CHM 231 Elementary Organic Chemistry or CHM 331 General Organic Chemistry

MBB 245 Cellular and Molecular Biology

Students may also take other upper division courses from: BCH, BIO, BME, CHM,

HPS, MBB, PGS, PHY or PSY

#### Part B: 15 credits

KIN 412 Biomechanics of the Skeletal System

KIN 414 Electromyographic Kinesiology

KIN 421 Human Motor Control

KIN 422 Motor Control in Special Populations

KIN 423 Motor Control and Aging

KIN 440 Exercise Biochemistry

KIN 442 Fuel Metabolism

KIN 443 Exercise Endocrinology

KIN 445 Exercise Physiology for Children and Adolescents

KIN 450 Biopsychosocial Perspectives of Physical Activity & Health

KIN 452 Exercise Psychology

KIN 484 Internship (1-9 cr.)

KIN 492 Research (1-9 cr.)

KIN 493 Honors Thesis (1-9 cr.)

KIN 494 ST: Exercise Electrocardiogram (ECG) Interpretation

KIN 494 ST: Muscle Physiology

KIN 494 ST: Neurophysiological Bases of Movement

KIN 494 ST: Research Methods II

KIN 499 Individualized Instruction (1-9 cr.)

Other KIN courses with advisor approval