For students entering the major in 2005-2006 **BS**

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

Undergraduate Academic Advisor, Donna Landers, PE West, Room 218, (480) 965-3875

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

I. REQUIRED GENERAL STUDIES COURSES (21 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)
- _____ MAT 119 or 170 or 210 or higher (MA) – (prerequisite for KIN 335)
- _____ PGS 101 (SB) – (prerequisite for KIN 345, KIN 352)
- _____ PHY 111 (NS) – (prerequisite for KIN 335)

(General Studies abbreviations used above: SQ & SG = Sciences; MA = Mathematics; SB = Social and Behavioral Sciences; L = Literacy and Critical Inquiry (courses in Kinesiology)*****; NS = Natural Sciences and Mathematics).

II. PRE-CORE (May be taken concurrently with Scientific Core.) (8 cr.):
- _____ KIN 200 Introduction to Kinesiology (2 cr.)
- _____ KIN 110 Movement Analysis Lab (6 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

IV. AREAS OF CONCENTRATION (21 cr.)

There are three concentrations in Kinesiology. Students must select one of these concentrations. They are **EXERCISE SCIENCE AND MOVEMENT SCIENCE**

V. POST CORE CAPSTONE COURSE (1 cr.):
- _____ KIN 498 Pro Seminar: Kinesiology & the Future – (course taken in senior year.)

***Courses meeting Literacy and Critical Inquiry (L) requirements:**
- _____ KIN 414 Electromyographic Kinesiology (prerequisite: KIN 335, KIN 340)
- _____ KIN 422 Motor Control in Special Populations (prerequisite: KIN 345)
- _____ 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 460 Theory of Strength Training (prerequisite: KIN 340)

*There are other L courses in the university

Bridge Course (s) (CLAS requirement):
- _____ KIN 422 Motor Control Special Populations
- _____ KIN 452 Exercise Psychology (SB)

EXERCISE SCIENCE 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.

Exercise Science – 21 credits: Part A and Part B must be completed.

Part A: 9 credits
Choose from:
KIN 334 Functional Anatomy and Kinesiology
KIN 448 Applied Sport Psychology
KIN 484 (1-6 cr.) Internship
KIN 494 ST:Interpretation of Exercise Performance

Part B: 12 credits
Choose from:
KIN 283 Prevention and Care Athletic of Injuries
KIN 348 Psychological Skills for Optimal Performance
KIN 370 Advanced First Aid
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 450 Biopsychosocial Perspectives of Physical Activity & Health
KIN 460 Theory of Strength Training
KIN 485 Advanced Techniques of Athletic Training
KIN 494 ST:Environmental Exercise Physiology
KIN 494 ST:Physiological Basis for Exercise and Sport
KIN 494 ST:Sport and Social Issues

Other Kinesiology courses with advisor approval

MOVEMENT SCIENCE 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).

Movement Science – 21 credits: Part A and Part B must be completed.

Part A: 9 credits
Choose from:
KIN 484 Internship (1-6 cr.)
KIN 492 Research (1-6 cr.)
KIN 493 Honors Thesis (1-6 cr.)
KIN 494 ST:Research Methods
KIN 499 Individualized Instruction (1-6 cr.)

Part B: 12 credits
Choose from:
KIN 334 Functional Anatomy and Kinesiology
KIN 370 Advanced First Aid
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 494 ST: Physiological Basis for Sport and Exercise
KIN 494 ST:Voluntary and Reflex Control of Movement
KIN 494 ST:Muscle Physiology
KIN 494 ST: Neurophysiological Bases of Movement

Other Kinesiology courses with advisor approval

Additional Coursework:

Attention students in pre-physical therapy and pre-medicine: Suggested course work is as follows: CHM 113; 115 or 116; 231-235 or 331-335 & 332-336; BCH 361; PHY 111-113, 112-114; MAT 170 or 210; statistics or computer science; other courses in biology, microbiology and/or psychology.