

ASU Kinesiology

(2003-2004 catalog)

- ❖ **Required General Studies Courses**
- ❖ **Exercise Science Concentration**
- ❖ **Movement Science Concentration**
- ❖ **Teacher Preparation Concentration**
- ❖ **Potential Employment**
- ❖ **Outstanding Student Award Recipients**

REQUIRED GENERAL STUDIES 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 117 (MA) – (prerequisite for KIN 335)
- _____ PGS 101 (SB) – (prerequisite for KIN 345,352)
- _____ 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).

PRE-CORE (May be taken concurrently with Scientific Core.) (8 cr.):

- _____ KIN 200 Introduction to Kinesiology (2cr.)
- _____ KIN 110 Movement Analysis Lab (6cr.)

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

AREAS OF CONCENTRATION (21 cr.)

There are three concentrations in Kinesiology. Students must select one of these concentrations:

EXERCISE SCIENCE, MOVEMENT SCIENCE, AND TEACHER PREPARATION.

POST CORE CAPSTONE COURSE (1 cr.):

- _____ KIN 498 Pro Seminar: Kinesiology & the Future – (course taken in senior year.)

EXERCISE SCIENCE CONCENTRATION (21 credits) Part A and Part B must be completed.

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.

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 Physical Activity and Health: Psychological Perspectives
- KIN 460 Theory of Strength Training
- KIN 485 Advanced Techniques of Athletic Training
- KIN 494 ST: Sport and Social Issues
- KIN 494 ST: Environmental Exercise Physiology

Other Kinesiology courses with advisor approval

MOVEMENT SCIENCE CONCENTRATION (21 credits) Part A and Part B must be completed.

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, dental, podiatry, chiropractic, etc.) will have additional course work in the sciences to complete (see department for list).

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 Physical Activity and Health: Psychological Perspectives
- KIN 452 Exercise Psychology
- KIN 494 ST: Voluntary and Reflex Control of Movement
- KIN 494 ST: Muscle Physiology

Other Kinesiology courses with advisor approval

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.

TEACHER PREPARATION CONCENTRATION (21 credits) Part A and Part B must be completed.

For the student interested in a physical education teaching career at the elementary or secondary school level; also appropriate for students interested in coaching, youth sports, and recreation.

Part A: 9 credits

KIN 361 Physical Education in the Secondary School
KIN 376 Physical Education for the Elementary School
KIN 382 Physical Education for the Atypical Student

Part B: 12 credits

Choose from:

KIN 100 Introduction to Health Wellness
KIN 283 Prevention and Care of Athletic Injuries
KIN 290/292 Sports Officiating
KIN 334 Functional Anatomy and Kinesiology
KIN 348 Psychological Skills for Optimal Performance
KIN 370 Advanced First Aid
KIN 400 Teaching Physical Activity Concepts
KIN 413 Qualitative Analysis in Sport Biomechanics
KIN 441 Physiology of Women in Sport
KIN 445 Exercise Physiology for Children and Adolescents
KIN 448 Applied Sport Psychology
KIN 460 Theory of Strength Training
KIN 484 Internship (1-6 cr.)
KIN 485 Advanced Techniques of Athletic Training
KIN 494 ST: Administration of Athletics
KIN 494 ST: Sport and Social Issues

Other Kinesiology courses with advisor approval

***Courses meeting Literacy and Critical Inquiry (L) requirements:**

- _____ KIN 400 Teaching Physical Activity Concepts (prerequisite: KIN 200)
- _____ 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 (Spring '02)
- _____ KIN 452 Exercise Psychology (SB)

POTENTIAL EMPLOYMENT

Careers:

Physical Therapy
Occupational Therapy
Medical-MD or DO
Optometry
Ophthalmologist
Podiatry
Chiropractor
Physician's Assistant
Law
Sports Journalism
Personal Trainers
Civilian Exercise Physiologist in Military
Recreation Leaders & Directors
Teaching - Public School (physical education, wellness, health, science, etc.)
Teaching - University & College
Graduate School-Masters & PH.D
Athletic Training
Exercise Physiologist
Corporate Fitness
Program Directors in Fitness Clubs
YMCA/Boy's & Girl's Club Directors
E-Commerce Fitness
Ergonomics (Human Factors)
Fitness Program Director
Personal Training Director
Group Exercise Coordinator
Sport Officiating
Sport Clubs

Cardiac Rehabilitation
Health Clubs
Sports Information
Sport Marketing/Merchandising
Sport Management/Promotion/Advertising
Sport Camps/Clubs/Youth
Pharmaceutical Sales
Pharmacy Degrees
Nursing Degrees
Woman Prenatal & Birthing Centers
Strength Coach for College/University Athletic Dept or Professional Athletic Team
Retail Sporting Goods Sales
Exercise Equipment Manufacturers; sales
Intramural Sports Coordinator
Internet Sports Information Service
Exercise Technician
Certified Orthotist (Prosthetics)
Director of Massage Therapy Program
Financial Planning (Stock Broker)

OUTSTANDING STUDENT AWARD RECIPIENTS

2002 Award Winners:

Outstanding Seniors Bachelor of Science

Melissa M. Engler
Evan Jackson Short

Outstanding Seniors Bachelor of Arts in Education

Jessica L. Cooke
Vincent J. Esola

Rudy L. Lavik Memorial Award for Outstanding Juniors

Mhairi Brown
Jason Zilveti

Pangrazi-Corbin Award

Daniel Collins

Norma Pike Maarsingh Award

Jessica Begay

Kathy Gibbons Jackson Scholarship 2002-2003

Amanda Drake
Tara Renae Martin
Jessica A McGlashon

Doug Conley Memorial Scholarship (graduate student)

Kristin Sutika
Brian Umberger

Dean's Council Department Scholarship

Melissa M. Engler

National Association for Sport and Physical Education 2002

Courtney Teatro

KINESIOLOGY HOMEPAGE

<http://www.asu.edu/clas/kines>