

896 Professional Project in Journalism
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 25 credits in all enrollments for this course. R: Approval of School.

Individualized research and production of in-depth journalism projects.

899 Master's Thesis Research
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to master's students in Journalism. Approval of school.

Master's thesis research.

916 Qualitative Research Methods
Spring. 3(3-0) Interdepartmental with Advertising; Telecommunication. R: Open only to Ph.D. students in Mass Media and Communication.

Qualitative research in mass and specialized communication systems. Topics include documentary, bibliographic, case study and participant observation methods.

921 Media Theory
Fall. 3(3-0) Interdepartmental with Advertising; Telecommunication. Administered by Department of Advertising. R: Open only to Ph.D. students in Mass Media and Communication.

Process and effects of mediated communication. Audiences, socialization, and persuasion. Macro-societal, and intercultural perspectives. Theory construction.

930 Law and Public Policy of the Media
Fall. 3(3-0) Interdepartmental with Advertising; Telecommunication. R: Open only to Ph.D. students in Mass Media.

Philosophical, legal, political, and statutory principles underlying law and public policy applied to media. Selected issues involving constitutional law, common law, statutes, and administrative policy.

960 Media and Technology
Spring. 3(3-0) Interdepartmental with Telecommunication; Advertising. Administered by Department of Telecommunication. R: Open only to Ph.D. students in Communication Arts and Sciences-Mass Media or Communication or approval of department.

Theoretical frameworks concerning media and communication processes, and their interactions with technology. Social, organizational, critical, and economic perspectives.

965 Media Economics
Spring. 3(3-0) Interdepartmental with Telecommunication; Advertising. Administered by Department of Telecommunication. R: Open only to Ph.D. students in Communication Arts and Sciences-Mass Media or Communication or approval of department.

Economic theory and analysis relevant to the mass media. Economic structure and performance of mass media and advertising industries. Competition among media and within related industries.

975 Quantitative Research Design
Fall. 3(3-0) Interdepartmental with Advertising; Telecommunication. Administered by Department of Advertising. P:NM: One graduate-level research design or statistics course. R: Open only to Ph.D. students in Mass Media.

Survey, experimental and content-analytic techniques applied to the study of media. Academic and applied research methods. Univariate and multivariate techniques.

KINESIOLOGY KIN

Department of Kinesiology College of Education

101 Aquatics
Fall, Spring, Summer. 1(0-2) R: A student may earn a maximum of 8 credits in all enrollments for this course if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 8 credits in KIN 101 through KIN 108. SA: PES 101

Skill and knowledge development in water-related activities. Separate course sections in activities such as swimming, diving, lifeguarding, water polo, and sailing.

102 Combative Sports
Fall, Spring, Summer. 1(0-2) R: A student may earn a maximum of 8 credits in all enrollments for this course if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 8 credits in KIN 101 through KIN 108. SA: PES 102

Skill and knowledge development in the art or sport of physical training. Separate course sections in activities such as judo, karate, aikido, and fencing.

103 Conditioning
Fall, Spring, Summer. 1(0-2) R: A student may earn a maximum of 8 credits in all enrollments for this course if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 8 credits in KIN 101 through KIN 108. SA: PES 103

Knowledge and competency in physical fitness activities that emphasize cardiovascular and muscular training. Separate course sections in activities such as aerobic exercise, power walking, swim conditioning, and weight training.

104 Dance
Fall, Spring, Summer. 1(0-2) R: A student may earn a maximum of 8 credits in all enrollments for this course if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 8 credits in KIN 101 through KIN 108. SA: PES 104

Skill and knowledge development in dance activities. Separate course sections in dance styles such as ballet, modern, jazz, Latin, and social.

105 Gymnastics
Fall, Spring, Summer. 1(0-2) R: A student may earn a maximum of 8 credits in all enrollments for this course if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 8 credits in KIN 101 through KIN 108. SA: PES 105

Skill and knowledge development in gymnastics. Separate sections in activities such as apparatus, tumbling, and floor exercise.

106 Individual Sports
Fall, Spring, Summer. 1(0-2) R: A student may earn a maximum of 8 credits in all enrollments for this course if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 8 credits in KIN 101 through KIN 108. SA: PES 106

Skill and knowledge development in individual sports. Separate course sections in activities such as bowling, golf, skating, self defense, and track and field.

107 Racquet Sports
Fall, Spring, Summer. 1(0-2) R: A student may earn a maximum of 8 credits in all enrollments for this course if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 8 credits in KIN 101 through KIN 108. SA: PES 107

Skill and knowledge development in racquet sports. Separate course sections in sports such as badminton, racquetball, and tennis.

108 Team Sports
Fall, Spring, Summer. 1(0-2) R: A student may earn a maximum of 8 credits in all enrollments for this course if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 8 credits in KIN 101 through KIN 108. SA: PES 108

Skill and knowledge development in team sports. Separate course sections in sports such as basketball, ice hockey, lacrosse, soccer, softball, and volleyball.

120 Personal Health
Fall, Spring, Summer. 3(3-0) SA: PES 120
Physical, mental, emotional, social, and spiritual domains of health. Alternative health values and behaviors. Developing healthy lifestyles.

121 The Healthy Lifestyle
Fall, Spring, Summer. 3(2-2) SA: PES 121
Cardiovascular risk factors, lifestyle habits, and aerobic capacities and their relationship to optimal health and longevity. Individual physical activity required as part of the course.

125 First Aid and Personal Safety
Fall, Spring, Summer. 3(3-0) SA: PES 125
Knowledge and application of first aid concepts relating to respiratory and cardiopulmonary disorders, shock, wounds, burns, fractures, drug poisoning, childbirth, litigation. Preventing trauma by recognizing and avoiding safety hazards.

126 Introduction to Athletic Training
Fall, Spring. 3(2-2)
Basic knowledge and skills for the recognition and prevention of athletic injuries. Classroom and laboratory experiences.

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- 127 Clinical observation in Athletic Training**
Fall, Spring. 1(0-3) P:M: (KIN 126 or concurrently)
Supervised experience in clinical setting in sports medicine.
- 170 Foundations of Kinesiology**
Fall, Spring. 2(2-0) SA: PES 170
Kinesiology as a disciplinary major. Subdisciplines and professions. Historical perspectives.
- 171 Athletics in Higher Education**
Fall. 1(1-0) SA: PES 171
Philosophy and organization of athletics. Athletics and academic achievement. Ethical issues, legal issues, social conduct, eligibility, athlete's rights and responsibilities. Coaches' responsibilities and institutional obligations.
- 201 Water Safety Instruction**
Fall, Spring. 2(1-2) P:NM: Training in Emergency Water Safety or Lifeguarding plus scoring at least 80% on both skill and written pre-tests. SA: PES 201
Knowledge and skills necessary to plan and conduct American Red Cross water safety courses. Current lifesaving certification is assumed.
- 202 Aerobic Exercise Instruction**
Fall, Spring. 3(2-3) RB: Experience in aerobic exercise. SA: PES 202
Theory and practice for aerobic exercise leaders. Functional effects of physical activity. Safe exercise techniques. Modifications and precautions for special populations. Choreography practice. Health and exercise screening. Legal issues.
- 203 Self-Defense Instruction**
Spring of even years. 2(1-2) RB: Experience in self defense techniques. SA: PES 203
Knowledge, skills, strategies, tactics, and experience necessary to teach personal defense skills. Assaultive process and situation assessment. Prevention, de-escalation, confrontation skills, and self defense. Competence in self defense assumed.
- 204 Sailing and Cruising**
Fall, Spring, Summer. 2(1-3) RB: Experience in sailing small crafts. SA: PES 204
Knowledge, skills, and experience necessary to sail large vessels on inland and coastal waters. Live aboard and sail for six days and nights, traveling approximately 250 miles. Competence in sailing small crafts assumed.
- 205 Lifeguarding**
Fall, Spring, Summer. 2(1-2) RB: Competence as an advanced swimmer. SA: PES 205
Lifeguarding knowledge and skills necessary to obtain American Red Cross Lifeguarding certificate. Advanced swimming level is assumed.
- 216 Applied Human Anatomy**
Fall. 3(3-0) R: Open only to majors in the Department of Kinesiology. Not open to freshmen. SA: PES 216
Structural anatomy of the human body. Interrelationships of structure, function, and human movement.
- 217 Applied Human Anatomy Laboratory**
Spring. 1(0-3) P:M: (KIN 216 or concurrently) R: Not open to freshmen. Open only to majors in the Department of Kinesiology. SA: PES 217
Major bones, muscles, nerves, vessels, and organs of the human body. Articulations, muscle origins, muscle insertions, and prime moving actions.
- 250 Measurement in Kinesiology**
Fall, Spring. 3(3-0) SA: PES 250
Methods and materials for measurement and evaluation. Motor skills, physical fitness, knowledge, and attitudes associated with physical activity.
- 260 Physical Growth and Motor Behavior**
Fall, Spring. 3(3-0) SA: PES 260
Physical growth and biological maturity as related to motor performance and skill learning. Sequential progressions of fundamental motor skills. Physical fitness of children and youth. Motor abilities. Stages of skill acquisition.
- 300A Coaching Baseball**
Fall. 2(1-2) RB: Previous experience in the sports of baseball or softball. R: Not open to freshmen. SA: PES 300A
Techniques for coaching baseball. Rules, strategies, and training. Development and evaluation of player skills. Planning, conducting, and evaluating practices.
- 300B Coaching Sports for Athletes with Disabilities**
Spring of even years. 2(2-0) Interdepartmental with Park, Recreation and Tourism Resources; Sociology; Linguistics and Languages; Music; Romance Languages.
Rules, strategies, and training. Developing and evaluating player skills. Planning, conducting, and evaluating sport practices. Health and safety concerns.
- 300C Coaching Soccer**
Spring. 2(1-2) RB: Working knowledge of the sport of soccer. R: Not open to freshmen. SA: PES 300C
Techniques for coaching soccer. Developing and evaluating player and team skills. Planning, conducting and evaluating practices and games. Rules, drills, strategies and training.
- 300D Coaching Basketball**
Fall. 2(2-0) RB: Working knowledge of the sport of basketball. R: Not open to freshmen. SA: PES 300D
Techniques and strategies for coaching basketball. Rules, drills, and training. Development and evaluation of individual and team skills. Planning, conducting, and evaluating practices and games.
- 300E Coaching Football**
Fall. 2(2-0) RB: Working knowledge of the sport of football. R: Not open to freshmen. SA: PES 300E
Techniques and strategies for coaching football. Rules, drills, and training. Development and evaluation of individual and team skills. Planning, conducting, and evaluating practices and games.
- 300K Coaching Track and Field**
Fall. 2(1-2) RB: Working knowledge of the sports of cross country or track and field. R: Not open to freshmen. SA: PES 300K
Techniques and strategies for coaching track and field. Rules, drills, and training. Development and evaluation of participant skills. Planning, conducting, and evaluating practices and meets.
- 300L Coaching for Strength, Conditioning and Fitness**
Summer. 2(2-0) R: Not open to freshmen.
Basic theoretical and practical principles of coaching/training for increased fitness and/or sports performance. Individual applications to diverse populations.
- 300T Coaching Tennis**
Fall, Summer. 2(2-0) RB: Working knowledge of the sport of Tennis.
Techniques for coaching tennis. Rules, drills, strategies and training. Development and evaluation of player skills. Planning, conducting and evaluating practices. Match preparation. Team formation.
- 301E Advanced Football Coaching**
Spring. 2(2-0) P:M: (KIN 300E) SA: PES 301E
Administrative and planning responsibilities. Advanced techniques in offensive and defensive position play. Scouting and performance evaluation. Weight training and conditioning. Athletic training procedures. Recruitment. Compliance.
- 310 Physiological Bases of Physical Activity**
Fall, Spring. 3(3-0) P:M: (KIN 170 and KIN 216 and CEM 141 and PSL 250) or (PSL 431 and PSL 432) R: Open only to majors in the Department of Kinesiology. SA: PES 310
Acute and chronic effects of exercise on various body systems. Principles of training, exercise prescription, and the role of physical activity in health and disease.
- 320 Pathology of Sports Injury**
Spring. 3(3-0) P:M: (KIN 125 and KIN 217) and (KIN 310 or concurrently) SA: PES 320
Pathophysiology and pathomechanics of sport injury, tissue response and the healing process as they relate to management and rehabilitation of sports injury.
- 330 Structural and Mechanical Analysis of Physical Activity**
Fall, Spring. 3(2-2) P:M: (KIN 170 and KIN 216 and KIN 217) and (PHY 231 or PHY 231B or PHY 231C or PHY 181B or PHY 183 or PHY 183B or PHY 193H) SA: PES 330
Biomechanical analysis of human movement based upon musculoskeletal structure and function. Mechanical principles.
- 340 Psychological Bases of Physical Activity**
Fall, Spring. 3(3-0) P:M: (KIN 170) SA: PES 340
Psychological factors affecting motor skill acquisition and performance. Psychological skills which enhance sport performance. Applications of learning theory.
- 350 Techniques of Teaching I**
Spring. 2(0-6) P:M: (TE 301) RB: Basic knowledge and understanding of skills related to basketball, gymnastics, soccer, flag football, floor hockey and tennis, or activities that are closely related. R: Not open to freshmen or sophomores. Open only to Kinesiology students admitted to the Teacher Education program.
Application of kinesiological pedagogical principles to basketball, gymnastics, soccer, flag football, floor hockey, and tennis.
- 351 Techniques of Teaching II**
Fall. 2(0-6) P:M: (TE 301) RB: Basic knowledge and understanding of skills related to golf, softball, track and field, badminton and volleyball, or activities that are closely related. R: Not open to freshmen or sophomores. Open only to Kinesiology students admitted to the Teacher Education program.
Application of kinesiological pedagogical principles to golf, softball, track and field, badminton, and volleyball.

- 370 Proseminar in Kinesiology**
Fall, Spring. 2(2-0) P:M: (KIN 170) R: Not open to freshmen or sophomores. SA: PES 470, KIN 470
Philosophical and professional perspectives in kinesiology.
- 400 Principles of Coaching I**
Fall. 4(4-0) R: Not open to freshmen or sophomores. SA: PES 400
Basic principles of anatomy, biomechanics, and physiology for coaching competitive sports. Applications to athletes of different ages and abilities.
- 401 Principles of Coaching II**
Spring. 4(4-0) R: Not open to freshmen or sophomores. SA: PES 401
Sociological, administrative, philosophical, legal, ethical, and chemical health issues related to coaching competitive sports. Applications to athletes of different ages and abilities.
- 411 Laboratory Experiences in Exercise Physiology**
Fall, Spring. 2(1-3) P:M: (KIN 310) R: Open only to majors in the Department of Kinesiology. SA: PES 411
Laboratory techniques for testing and evaluating individuals for aerobic fitness, muscular strength and endurance, body composition and other physiologic responses to exercise. Exercise program development for personal health fitness.
- 420 School Health Education**
Fall. 3(3-0) P:M: (KIN 120) R: Not open to freshmen or sophomores. SA: PES 420
Organization and administration of a comprehensive school health education program. Interaction of school health services, healthful environment, and health instruction in the development of a healthy lifestyle.
- 421 Lower Body Injury Evaluation**
Fall. 3(3-0) P:M: (KIN 320) SA: PES 421
Knowledge and skills needed for evaluating lower body injuries in athletic training. The techniques and tests used for evaluating acute and chronic injuries to the lower body.
- 422 Rehabilitation of Athletic Injuries**
Fall. 3(3-0) P:M: (KIN 421) R: Not open to freshmen or sophomores. SA: PES 422
Rehabilitation techniques to manage athletic injuries. Anatomical and neurophysiological bases of techniques. Indications and contraindications of rehabilitation protocols.
- 423 Therapeutic Modalities**
Spring. 3(3-0) P:M: (KIN 320)
Therapeutic modalities used to manage athletic injuries and their indications and contraindications. Rationale for and techniques of using thermal and electrical modalities for athletic injuries.
- 425 Organization and Administration of Athletic Training**
Spring. 3(3-0) P:M: (KIN 320) P:NM: (KIN 450)
Knowledge and skills necessary for the administration of an athletic training program. Ethics, policies, procedures, insurance, liability, budgets, facilities, and record keeping in athletic training.
- 426 Upper Body Injury Evaluation**
Spring. 3(3-0) P:M: (KIN 320) P:NM: (KIN 421)
Knowledge and skills needed for evaluating upper extremity injuries in athletic training. Techniques and tests for evaluating acute and chronic injuries to the upper body.
- 427 Clinical Rotations in Athletic Training**
Fall, Spring. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P:M: (KIN 320) P:NM: (KIN 421 and KIN 426)
Knowledge and skills used to manage, evaluate and rehabilitate orthopedic injuries in various clinical settings. Clinical settings may include colleges, high schools and/or rehabilitation clinics.
- 445 Sociocultural Analysis of Physical Activity (W)**
Fall, Spring. 3(3-0) P:M: (KIN 170) and completion of Tier I writing requirement. R: Open only to seniors or graduate students. SA: PES 445
Sociocultural context of and social practices in sport and physical activity.
- 450 Design and Evaluation of Physical Activity Programs**
Fall, Spring. 3(3-0) P:M: (KIN 170) R: Open only to seniors or graduate students. SA: PES 450
Development and evaluation of programs in kinesiology.
- 451 Physical Education in Preschools and Elementary Schools**
Fall. 3(1-5) P:NM: (KIN 260 or KIN 460) RB: Previous experience working with children. R: Not open to freshmen or sophomores. SA: PES 451 Not open to students with credit in TE 401.
Methods of instruction for teaching physical activities to preschool and elementary school children. Development of teaching sequences. Clinical experience in teaching children and peers.
- 452 Physical Education in Middle and High Schools**
Spring. 3(2-3) P:M: (KIN 106 and KIN 107 and KIN 108 and KIN 340) SA: PES 452 Not open to students with credit in TE 402.
Methods of instruction for teaching physical activities to middle and high school students. Development of teaching sequences. Clinical experience in teaching students and peers.
- 453 Administration of Intramural Sports Programs**
Spring. 3(2-2) R: Not open to freshmen or sophomores. SA: PES 453
Organization and administration of intramural programs in educational settings. Philosophy, planning, scheduling, budgeting, facilities, officiating, exercise fitness, marketing, risk management, computer applications, and required practical experience in administering intramural programs.
- 454 Facility Planning and Construction**
Spring. 3(3-0) R: Not open to freshmen or sophomores. SA: PES 454
Planning of athletic and physical education facilities such as gymnasias, ice rinks, swimming pools, and outdoor areas. Space utilization standards and guidelines. Selection of materials and equipment.
- 455 Issues in School Health Education**
Spring. 3(3-0) P:M: (KIN 420)
Community health issues and resources affecting educational programming. Teaching methods and techniques as applicable to traditional and controversial health topics.
- 460 Developmental Bases of Motor Skills**
Fall, Spring, Summer. 2(2-0) R: Open only to majors in the College of Education and College of Human Ecology. Not open to students in the Department of Kinesiology. SA: PES 460 Not open to students with credit in KIN 260.
Influence of physical growth and biological maturation on motor skill development. Sequential progressions of fundamental motor skills. Gross motor dysfunction and health-related fitness of children. Techniques of helping children to acquire skills.
- 461 Developmental Bases of Motor Skills Laboratory**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. P:NM: (KIN 260 or KIN 460) R: Students must apply one term in advance of enrollment. SA: PES 461
Application of concepts related to physical growth and motor development. Practice in planning and teaching fundamental motor skills. Methods of evaluating teaching.
- 465 Adapted Physical Activity**
Fall, Spring. 3(2-2) P:M: (KIN 170) R: Not open to freshmen or sophomores. SA: PES 465
Teaching and coaching physical activities for persons with disabilities.
- 466 Practicum in Adapted Physical Activity**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Approval of department. SA: PES 466
Supervised teaching of physical activities and/or coaching sports to persons with disabilities and youths at risk.
- 470 Proseminar in Kinesiology (W)**
Fall, Spring. 3(3-0) P:M: Completion of Tier I writing requirement. R: Open only to seniors or graduate students. SA: PES 470
Philosophical perspectives in kinesiology.
- 482 Topics in Kinesiology (MTC)**
Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to juniors or seniors or graduate students in the Department of Kinesiology. SA: PES 482
Selected topics in areas such as physiology of exercise, biomechanics, motor behavior, psychosocial aspects of activity, program design and evaluation, athletic training, and coaching.
- 490 Independent Study**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Approval of department. SA: PES 490
Supervised individual or group study in various fields of emphasis in kinesiology.
- 493 Internship**
Fall, Spring, Summer. 2 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P:M: (KIN 411) R: Open only to Kinesiology majors. Approval of department.
Professional internship in kinesiology under faculty supervision.

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- 494 Fieldwork**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Approval of department. SA: PES 494
Supervised practice in teaching physical education activities, coaching sports, administering sports programs, or conducting research or service activities in kinesiology.
- 810 Physiology of Physical Activity**
Fall. 3(3-0) SA: PES 810
Acute and chronic effects of exercise on the various body systems. Program design. Issues in exercise physiology.
- 811 Physiological Evaluation and Exercise Prescription**
Fall. 2(0-4) P:NM: (KIN 810 or concurrently) SA: PES 811
Techniques in evaluation of physiological capacity and in exercise prescription for various populations.
- 812 Cardiovascular, Respiratory, and Metabolic Responses to Exercise**
Spring of even years. 3(3-0) P:NM: (KIN 810) SA: PES 812
Acute and chronic effects of exercise on cardiovascular, respiratory, and metabolic system functions. Role of these systems in limiting exercise performance.
- 813 Neuromuscular and Endocrine Responses to Exercise**
Spring of odd years. 3(3-0) P:NM: (KIN 810) SA: PES 813
Acute and chronic effects of exercise on nervous, muscular, and endocrine system functions. Role of these systems in limiting exercise performance.
- 830 Biomechanical Analysis of Physical Activity**
Fall. 3(2-2) Interdepartmental with Osteopathic Manipulative Medicine. SA: BIM 830, PES 830
Kinematic analysis of mechanical and anatomical characteristics in physical activity and sport skills.
- 831 Advanced Biomechanics of Physical Activity**
Spring of even years. 3(2-2) Interdepartmental with Osteopathic Manipulative Medicine; Sociology; Linguistics and Languages; Music; Romance Languages. P:NM: (KIN 830) SA: BIM 831, PES 830
Kinetic analyses of the performance of physical activity and sport.
- 840 Psychosocial Aspects of Physical Activity**
Fall. 3(3-0) SA: PES 840
Social psychology of sport and physical activity.
- 841 Stress Management Techniques in Athletics**
Summer. 3(3-0) RB: Course in Psychology. SA: KIN 882A
Theoretical bases of psychological stress. Impact of stress on performance. Application of appropriate stress management techniques to athletes. Application of research findings related to athletes.
- 845 Sociocultural Practices in Sport**
Spring of odd years. 3(3-0) SA: PES 845
Critical, conflict, and feminist theories on dominant ideologies and social practices in sport.
- 851 Curriculum and Instruction in Physical Activity Programs**
Spring of even years. 3(3-0) P:NM: (KIN 450) SA: PES 851
Curriculum theory and models in kinesiology. Interaction of curriculum and instructional decision making in kinesiology.
- 852 Evaluation of Physical Activity Programs**
Spring of odd years. 3(3-0) P:NM: (KIN 450) SA: PES 852
Skills and knowledge necessary to design, implement, analyze, interpret, and report program evaluations in kinesiology.
- 853 Athletic Administration in Higher Education**
Fall. 3(3-0) SA: PES 853
Administrative theory, structure, and budget. Facilities, equipment, and marketing. Legal, medical, and safety aspects.
- 854 Sport Law for Administrators and Coaches**
Summer. 3(3-0) SA: PES 854
Legal issues in amateur athletics. Legal liability as it relates to coaches and administrators. Prevention of lawsuits through planning, policy development, and communication. Current sport legal issues.
- 860 Growth and Motor Behavior**
Fall. 3(3-0) SA: PES 860
Developmental skill sequences and behavior across the lifespan. Correlates of growth, maturation, and motor behavior. Individual and gender differences.
- 861 Growth, Maturation, and Physical Activity**
Spring of even years. 3(3-0) P:NM: (KIN 860) SA: PES 861
Physical growth, biological maturation, and motor performance. Development of tissues and organs. Development of motor components. Influences of gender and age on growth and performance. Methods of assessment.
- 862 Motor Skill Learning**
Spring. 3(3-0) P:NM: (KIN 860) SA: PES 862
Learning and performance theory applied to gross motor skills. Conditions influencing skill acquisition. Emphasis on neuropsychological and human performance models.
- 865 Curriculum and Instruction in Adapted Physical Education**
Spring of odd years. 3(3-0) SA: PES 865
Design of curricula and implementation of instruction in physical education for students with disabilities.
- 866 Research on Sports for Athletes with Disabilities**
Spring of even years. 3(3-0) SA: PES 866
Performance capabilities of athletes with disabilities. Research on areas such as exercise physiology, sport biomechanics, sport psychology, sport sociology, motor development, and motor learning.
- 867 Practicum in Adapted Physical Activity**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Approval of department. SA: PES 867
Supervised practice in teaching physical activities and/or coaching sports for persons with disabilities.
- 870 Physical Activity and Well-Being**
Fall. 3(3-0) SA: PES 870
Relationship of physical activity to human well-being. Influence of growth, biological maturity, aging, body composition, nutrition, training, and rest on health and performance.
- 871 Research Methods in Kinesiology**
Spring. 3(3-0) R: Open only to graduate students in the Department of Kinesiology. SA: PES 871
Experimental, longitudinal, survey, and qualitative research methods in kinesiology. Writing research proposals and reports. Research ethics.
- 882 Topics in Kinesiology (MTC)**
Fall, Spring, Summer. 2 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. SA: PES 882
Selected topics in areas such as physiology of exercise, biomechanics, motor behavior, psychosocial aspects of activity, program design and evaluation, and athletic training.
- 890 Independent Study in Kinesiology**
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to master's students. Approval of department. SA: PES 890
Individual study in an area of kinesiology under faculty supervision.
- 893 Internship in Kinesiology**
Fall, Spring, Summer. 2 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to graduate students in the Department of Kinesiology. SA: PES 893
Supervised internship in sports medicine, athletic administration, coaching, or education agencies. Capstone experience option in master's degree program.
- 894 Field Experiences in Kinesiology**
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department. SA: PES 894
Supervised graduate practicum in schools or other settings.
- 895 Research Ethics**
Summer. 1(1-0) Interdepartmental with Teacher Education; Counseling, Educational Psychology and Special Education; Educational Administration; Music; Romance Languages. R: Open only to graduate students in the Department of Counseling, Educational Psychology and Special Education or Department of Educational Administration or Department of Kinesiology or Department of Teacher Education. SA: PES 895
Identifying and resolving ethical problems in research, including issues related to collegial interactions; authorship, publication, and reviewing practices; data management; ownership of data and intellectual property; conflicts of interest; protection of human and animal subjects; and lab safety and compliance.

- 897 Project in Kinesiology**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Open only to graduate students in the Department of Kinesiology. SA: PES 897

Project experience under the guidance and supervision of MSU faculty. Development of products such as technical reports, instructional media, or curriculum materials to address an educationally significant problem. Capstone experience option in master's degree program.

- 899 Master's Thesis Research**
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P:NM: (KIN 871) SA: PES 899

Master's thesis research.

- 910 Current Issues in Exercise Physiology**
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P:NM: (KIN 810) SA: PES 910

Selected issues in exercise physiology and related fields of study.

- 930 Current Issues in Biomechanical Aspects of Physical Activity**
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. Interdepartmental with Osteopathic Manipulative Medicine. P:NM: (KIN 830) SA: BIM 930, PES 930

Selected issues of biomechanical analyses of sport and physical activity.

- 940 Current Issues in Psychosocial Aspects of Physical Activity**
Fall. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. SA: PES 940

Selected issues in the psychology and sociology of sport and physical activity.

- 950 Current Issues in the Design and Evaluation of Physical Activity Programs**
Fall. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. SA: PES 950

Selected issues in the design and evaluation of physical activity programs.

- 960 Current Issues in Motor Behavior**
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P:NM: (KIN 860) SA: PES 960

Selected issues in motor development, motor learning, adapted physical education, and related fields of study.

- 990 Independent Study in Kinesiology**
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to doctoral students. Approval of department. SA: PES 990

Individual study in an area of kinesiology under faculty supervision.

- 995 Research Practicum in Kinesiology**
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. R: Open only to doctoral students in the College of Education. Approval of department. SA: PES 995

Supervised research practicum. Design, execution, analysis, presentation, critique, and revision of research projects.

- 999 Doctoral Dissertation Research**
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 54 credits in all enrollments for this course. R: Open only to doctoral students in the Department of Kinesiology. SA: PES 999

Doctoral dissertation research.

LABOR AND INDUSTRIAL RELATIONS

LIR

School of Labor and Industrial Relations College of Social Science

- 801 Trade Union History, Structure, and Administration**
Fall, Summer. 3(3-0) R: Open only to student in the School of Labor and Industrial Relations.

History of American unions. Theories of unionism. Union structure, government and democracy. Role of unions in society and politics. Legal requirements on unions. Current union problems.

- 809 Labor Markets**
Fall, Spring. 3(3-0) P:NM: (EC 201) R: Open only to MLRHR students and students in the Interdisciplinary Ph.D. program in Social Science with a concentration in Industrial Relations and Human Resources.

Labor market structures and dynamics. Factors affecting work, wages, and occupational choices. Public and private policies on human resource development and utilization. Designed for human resource practitioners.

- 811 Training and Development**
Fall, Spring. 3(3-0) R: Open only to graduate students in the Labor Relations and Human Resources, Labor Relations and Human Resources-Urban Studies major, and students in the Interdisciplinary Ph.D. program in Social Science with a concentration in Industrial Relations and Human Resources.

Analyze and experience critical issues in the design and administration of employee training and development.

- 823 Organizational Behavior in Labor and Industrial Relations**
Fall, Spring. 3(3-0) R: Open only to students in the School of Labor and Industrial Relations.

Application of behavioral science knowledge at micro- and macro- levels to enhance individual, group and organizational functioning in industrial relations settings.

- 824 Human Resource Strategies and Decisions**
Fall, Spring. 3(3-0) R: Open only to students in the School of Labor and Industrial Relations.

Human resource planning, equal employment opportunity, staffing, training and development. Compensation and benefits. Workforce diversity and organizational development.

- 825 Compensation and Benefits Systems**
Fall, Spring. 3(3-0) P:M: (LIR 824) R: Open only to students in the School of Labor and Industrial Relations and students in the Interdisciplinary Ph.D. program in Social Science with a concentration in Industrial Relations and Human Resources.

Theory and practice relating organizational characteristics to compensation-system strategy, design, and administration. Job evaluation, pay surveys, pay structure, pay administration, group incentives, and benefits.

- 826 Organizational Development and Planned Change**
Fall. 3(3-0) P:NM: (LIR 823) R: Open only to students in the School of Labor and Industrial Relations.

Application of general systems and organizational behavior theories to the problems of organizational change and development in labor and industrial relations. Emphasis on the roles of leadership and change agents.

- 827 High Performance Work Systems**
Spring. 3(3-0) P:M: (LIR 823) R: Open to graduate students in Labor Relations and Human Resources or Labor Relations and Human Resources-Urban Studies, or Social Science Industrial Relations and Human Resources or approval of department.

How work innovations relate to employee empowerment initiatives, organizational processes and performance. Innovations from the perspectives of human resource management, socio-technical systems and labor-management relations. American and international applications.

- 828 Human Resource Information Systems**
Fall, Spring. 3(3-0) P:M: (LIR 824) R: Open only to students in the School of Labor and Industrial Relations and students in the Interdisciplinary Ph.D. program in Social Science with a concentration in Industrial Relations and Human Resources.

Information requirements for human resource decisions. Methods of appraising software. Role of human resource specialists in database development and operation.

- 832 Data Sources in Labor and Industrial Relations**
Fall, Spring. 3(3-0) R: Open only to students in the School of Labor and Industrial Relations.

Evaluation, use, and interpretation of data on industrial relations and human resources. Methods of presentation and report writing. Applications of index numbers, seasonal adjustments, and multiple regression.

- 854 Comparative Industrial Relations**
Spring. 3(3-0) P:M: (LIR 801 or LIR 858 or LIR 863) R: Open only to students in the School of Labor and Industrial Relations and students in the Interdisciplinary Ph.D. program in Social Science with a concentration in Industrial Relations and Human Resources.

Review and analysis of labor relations in different nations. Comparison of industrialized market economies and industrial relations experience. Analysis of selected current comparative industrial relations problems.