

Journalism—JRN

- 408 Topics in Specialized Reporting and Writing**
Fall, Spring. 3(2-2) A student may earn a maximum of 6 credits in all enrollments for this course. P:M: (JRN 300) R: Open only to juniors or seniors or graduate students.
Reporting and writing in selected topics such as investigative reporting, opinion writing, or science reporting.
- 409 Topics in Advising Student Publications**
Spring, Summer. 3 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to juniors or seniors or graduate students with approval of school.
Selected themes and issues concerning student publications such as staff organization and policies, finance, law, photography, design, and the role of the student press.
- 410 Photojournalism II**
Spring. 3(2-2) P:M: (JRN 310) R: Open only to juniors or seniors or graduate students.
Photographic reporting and editing; advanced technical and aesthetic skills; photographic design; social documentation.
- 412 Environmental Reporting**
Spring. 3(2-2) P:M: (JRN 200 and JRN 300) RB: Sciences courses recommended
Writing on environmental issues. Overview of the history of environmental journalism. Discussions of reporting and writing techniques. Critiques of articles written by students.
- 420 Capital News Service**
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. P:M: (JRN 300) R: Approval of school.
Supervised professional experience in covering politics and state government as correspondents for selected media.
- 430 News and the Law**
Spring, Summer. 3(3-0) R: Open only to juniors or seniors or graduate students.
Law of news gathering and dissemination. First amendment principles of press freedom. Libel, invasion of privacy, prior restraint, access to information. Electronic media content regulation.
- 436 Publication Design II**
Fall, Spring. 3(0-6) P:M: (JRN 336) R: Open only to juniors or seniors or graduate students.
Layout, design and production of printed materials, including newsletters, brochures, magazines, newspapers and special reports.
- 438 Online Publishing: Design for the Web**
Fall, Spring. 3(0-6) RB: (JRN 200) R: Approval of school.
Theory of and practice in designing online (WEB) publications. Content gathering, including text, digital images and multimedia elements. Information, interaction and presentation design.
- 455 News Media Management**
Spring of odd years. 3(3-0) R: Open only to juniors or seniors or graduate students. SA: JRN 355
Economics and management of news organizations. Motivation, leadership, communication, and regulations. Ownership and competition of news organizations.

- 460 Women and the News Media**
Fall. 3(3-0) R: Open only to juniors or seniors or graduate students.
Seminar covering the roles, contributions, and problems faced by women in journalism. Historical overview. Coverage of women by news media.
- 470 Social Groups and the News Media**
Fall of even years. 3(3-0) R: Open only to juniors or seniors or graduate students.
Seminar covering minority, ethnic and alternative media. Coverage of social groups by news media. Effects of coverage. Economic, political, sociological factors affecting coverage.
- 475 International News Media**
Spring of even years. 3(3-0) R: Open only to juniors or seniors or graduate students.
Seminar covering concepts and practices of journalism around the world. International flow of news. Press freedom law and theory. News agencies and their sources. Work of foreign correspondents. Freedom of information. Problems of 3rd World coverage.
- 480 Ethics and the News Media**
Fall, Spring, Summer. 3(3-0) R: Open only to seniors or graduate students in the School of Journalism.
Seminar covering moral issues in the gathering and reporting of news. Professional standards of news organizations.
- 490 Independent Study**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to juniors or seniors or graduate students. Approval of school.
Supervised individual study in an area of journalism.
- 492 Seminar in Mass Media**
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 seniors or graduate students. Approval of school.
Issues and problems in contemporary mass media. Effects of news and practices of journalists.
- 493 Journalism Internship**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. P:M: (JRN 200) R: Open only to juniors or seniors or graduate students in the School of Journalism. Approval of school.
Supervised professional experience as a working staff member with a newspaper, magazine, newsletter, broadcast station or other communication organization.

KINESIOLOGY

Department of Kinesiology College of Education

- 101 Beginning 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 101-108 and KIN 111-118. SA: PES 101
Skill and knowledge development in water-related activities.

KIN

- 102 Beginning 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 101-108 and KIN 111-118. 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 Beginning 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 101-108 and KIN 111-118. 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 Beginning 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 101-108 and KIN 111-118. SA: PES 104
Skill and knowledge development in dance activities. Separate course sections in ballet, modern, jazz, Latin, social and other dance styles.
- 105 Beginning 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 101-108 and KIN 111-118. SA: PES 105
Skill and knowledge development in gymnastics. Separate sections in activities such as apparatus, tumbling, and floor exercise.
- 106 Beginning 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 101-108 and KIN 111-118. 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 Beginning 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 101-108 and KIN 111-118. SA: PES 107
Skill and knowledge development in racquet sports. Separate course sections in sports such as badminton, racquetball, and tennis.

- 108 Beginning 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 101-108 and KIN 111-118. 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.
- 109 Sports Officiating**
Fall, Spring, Summer. 1(1-1) A student may earn a maximum of 4 credits in all enrollments for this course. R: Approval of department.
Skill and knowledge development in sports officiating, refereeing, or umpiring activities. Separate course sections in sports such as baseball, volleyball, basketball, ice hockey, soccer and softball.
- 111 Advanced 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 101-108 and KIN 111-118.
Skill and knowledge development in advanced water-related activities. Separate course sections in advanced swimming, lifeguard training, sailing, and scuba diving.
- 112 Advanced 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 101-108 and KIN 111-118.
Skill and knowledge development in advanced combative sports. Separate course sections in judo, karate, and foil fencing.
- 113 Advanced 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 combined total of 8 credits in KIN 101-108 and KIN 111-118.
Skill and knowledge development in advanced conditioning activities. Separate course sections in aerobic exercise, general conditioning, distance running, and strength and conditioning.
- 114 Advanced 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 101-108 and KIN 111-118.
Skill and knowledge development in advanced dance activities. Separate course sections in advanced dance activities offered.
- 115 Advanced 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 101-108 and KIN 111-118.
Skill and knowledge development in advanced gymnastics activities. Separate course sections in gymnastics, tumbling, and floor exercise.
- 116 Advanced 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 101-108 and KIN 111-118.
Skill and knowledge development in advanced individual sports. Separate course sections in golf, ice skating, and triathlon training.
- 117 Advanced 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 101-108 and KIN 111-118.
Skill and knowledge development in advanced racquet sports. Separate course sections in racquetball and tennis.
- 118 Advanced 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 101-108 and KIN 111-118.
Skill and knowledge development in advanced team sport activities. Separate course sections in basketball, ice hockey, soccer, softball, and volleyball.
- 120 Personal Health**
Fall, Spring, Summer. 3(3-0) R: Open only to students in Kinesiology. 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.
- 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) R: Open only to students in Kinesiology. 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. 3(2-3) RB: 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 required.
- 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.
- 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.

Kinesiology—KIN

- 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.
- 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**
Fall. 3(3-0) P:M: (KIN 125 or concurrently and KIN 126) 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 and PHY 231 or concurrently)
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**
Fall. 3(3-0) P:M: (KIN 126 and KIN 127)
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 and 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 126 and KIN 127)
Knowledge and skills used to manage, evaluate and rehabilitate orthopedic injuries in various clinical settings including 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) R: Open only to seniors or graduate students in the Department of Kinesiology. SA: PES 450

Development and evaluation of programs in kinesiology.

451 Physical Education in Preschools and Elementary Schools
 Fall. 3(1-5) RB: (KIN 260 or KIN 460) 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.

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.

456 Ethical Issues in Athletics
 Summer. 2(2-0) R: Not open to freshmen or sophomores. SA: KIN 482C, PES 482C

Ethics of sports at the institutional level in contemporary society. Political, social, and commercial pressures.

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.

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.

467 Physical Activity and Disability
 Fall, Spring. 2(2-0) R: Not open to freshmen or sophomores. Not open to Kinesiology majors. SA: PES 465 Not open to students with credit in KIN 465.

Teaching and coaching of persons with disabilities.

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.

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.

LANDSCAPE ARCHITECTURE LA

Department of Geography College of Social Science

200 Introduction to Landscape Architecture
 Fall. 3(3-0)

Environmental issues and problem-solving strategies within landscape architecture.

220 Graphic Communication
 Fall. 4(2-4) R: Open only to majors in Landscape Architecture or Urban and Regional Planning or Horticulture.

Fundamentals of graphics including freehand and technical drafting, lettering, sketching, perspective drawing, and delineation and rendering. Principles of design and field drawing techniques. Also introduced: plan, section, elevation and basic symbols, references, methods of presentation and graphic reproduction.

240 Applied Design Fundamentals
 Spring. 4(2-4) RB: (LA 220) or approval of department. R: Open only to majors in Landscape Architecture or Horticulture or Crop and Soil Sciences or Urban and Regional Planning.

Application of the principles and theory of design in advanced two-and three-dimensional representation.

270 Landscape Design History
 Spring. 3(3-0)

History of landscape architecture. Landscape development styles, design forms, and organization.

311 Landscape Design and Management Specifications
 Spring. 4(3-2) Interdepartmental with Horticulture. Administered by Department of Horticulture. P:M: (HRT 211 and HRT 212 or concurrently)

Landscape design techniques, spatial organization, plant selection, plant and site interaction. Relationship between design, construction and maintenance. Preparation of planting and maintenance specifications.

330 Site Construction: Materials and Methods
 Fall. 4(2-4) RB: (LA 220) R: Open only to majors in Landscape Architecture, Horticulture or Crop and Soil Sciences or Park, Recreation and Tourism Resources.

Elements and principles of grading, drainage, construction materials and methods.

331 Site Engineering
 Spring. 4(2-4) RB: (LA 330) R: Open only to majors in Landscape Architecture or Horticulture.

Principles and procedures for landscape engineering of site structures and systems such as road alignment, storm and subsurface drainage. Site utilities.

341 Basic Site Design I
 Fall. 4(2-4) RB: (LA 240) and (GEO 221 and HED 240) R: Open only to majors in Landscape Architecture or Horticulture or Crop and Soil Sciences or Urban and Regional Planning.

Introduction to the design process. Focus on program development, inventory, and analysis.

342 Basic Site Design II
 Spring. 5(2-6) RB: (LA 341) R: Open only to majors in Landscape Architecture or Horticulture or Crop and Soil Sciences or Urban and Regional Planning.

Development of design solutions for individual projects at a small scale. Focus on simple design programs and problems of limited complexity.

369 Introduction to Zoo and Aquarium Science
 Spring. 3(3-0) Interdepartmental with Zoology; Fisheries and Wildlife; Veterinary Medicine. Administered by Department of Zoology. P:M: (BS 110 or LBS 144 or LBS 148H)

Fundamentals of zoo and aquarium operations including research, interpretation, design, nutrition, captive breeding, conservation, ethics and management.