DEPARTMENT OF KINESIOLOGY

College of Health Sciences
206 Sturzebecker Health Sciences Center
610-436-2260
Department of Kinesiology (http://www.wcupa.edu/kinesiology/)
W. Craig Stevens (cstevens@wcupa.edu), Chairperson
Melissa Whidden (mwhidden@wcupa.edu), Assistant Chairperson - Exercise Science Division
Frances Cleland (fcleland@wcupa.edu), Assistant Chairperson - Health and Physical Education; Teacher Certification

Programs of Study
The Department of Kinesiology offers two programs leading to the bachelor of science degree.

- **The B.S. in Health and Physical Education - Teacher Certification.** This program prepares students to teach K-12 health and physical education in public schools.
- **The B.S. in Exercise Science.** The purpose of the exercise science (ES) program is to prepare students for positions in the growing and multifaceted field of health, exercise, and fitness or to gain admission into various professional and graduate schools. In addition, students will be prepared for success in appropriate certification examinations. The primary focus of the ES program is for each student to develop abilities and master knowledge and skills necessary to provide leadership in the health and fitness fields, as well as be a successful member of society. Concentrations offered within the curriculum include Exercise Science Specialist, Pre-Physical Therapy, Pre-Occupational Therapy, and Pre-Chiropractic Therapy. The Bachelor of Science is nationally accredited by the Committee on Accreditation for the Exercise Sciences (CoAES) under the auspices of the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

Facilities
The department is housed on West Chester University's South Campus in the Russell L. Sturzebecker Health Sciences Center. The SHSC features the following indoor facilities: five full-size, multipurpose gymnasiums; one fully equipped gymnastics gym; dance studio; strength and conditioning training facility; human performance laboratory; 17 classrooms; and an aquatics center featuring two pools. Outdoor facilities include multipurpose playing fields, tennis courts, softball fields/baseball fields, quarter-mile track, three outdoor adventure education facilities, and a climbing wall.

Programs

**Majors in Kinesiology**
- B.S. in Exercise Science - Exercise Science Specialist Concentration (http://catalog.wcupa.edu/undergraduate/health-sciences/kinesiology/exercise-science-bs-exercise-science-specialist-concentration/)
  - Accelerated B.S. in Exercise Science - Exercise Science Specialist Concentration to M.S. in Exercise and Sport Science (http://catalog.wcupa.edu/undergraduate/health-sciences/kinesiology/exercise-science-bs-exercise-science-specialist-concentration/)
- B.S. in Exercise Science - Pre-Chiropractic Concentration (http://catalog.wcupa.edu/undergraduate/health-sciences/kinesiology/exercise-science-bs-pre-chiropractic-concentration/)
- B.S. in Exercise Science - Pre-Occupational Therapy Concentration (http://catalog.wcupa.edu/undergraduate/health-sciences/kinesiology/exercise-science-bs-pre-occupational-therapy-concentration/)
- B.S. in Exercise Science - Pre-Physical Therapy Concentration (http://catalog.wcupa.edu/undergraduate/health-sciences/kinesiology/exercise-science-bs-pre-physical-therapy-concentration/)
- B.S. in Health and Physical Education - Teacher Certification (http://catalog.wcupa.edu/undergraduate/health-sciences/kinesiology/health-physical-education-bs-teacher-certification/)

**Minors in Kinesiology**
- Coaching (http://catalog.wcupa.edu/undergraduate/health-sciences/kinesiology/coaching-minor/)
- Exercise Science (http://catalog.wcupa.edu/undergraduate/health-sciences/kinesiology/exercise-science-minor/)
- Physical Education for Individuals with Disabilities (http://catalog.wcupa.edu/undergraduate/health-sciences/physical-education-individuals-disabilities-minor/)

**Graduate Opportunities**
See the graduate catalog for more information on the Kinesiology programs. (http://catalog.wcupa.edu/graduate/health-sciences/kinesiology/)

**Policies**
- See undergraduate admissions information. (http://catalog.wcupa.edu/general-information/admissions-enrollment/undergraduate-admissions/)
- See academic policies. (http://catalog.wcupa.edu/undergraduate/academic-policies-procedures/)

All undergraduate students are held to the academic policies and procedures outlined in the undergraduate catalog. Students are encouraged to review departmental handbooks for program tips, suggested course sequences, and explanations of procedures. When applicable, additional policies for specific department programs may be listed below.

**Minimum Grade Requirements for the B.S. in Exercise Science Concentrations**

- **Pre-Physical Therapy Concentration**
  - All related requirement courses and core Exercise Science classes MUST be passed with a C- or better.
- **Pre-Occupational Therapy Concentration**
  - All related requirement courses and core Exercise Science classes MUST be passed with a C- or better.
- **Pre-Chiropractic Concentration**
  - All related requirement courses and core Exercise Science classes MUST be passed with a C- or better.

**Accelerated Program Policy**
Refer to the Accelerated Programs page (http://catalog.wcupa.edu/undergraduate/accelerated-programs/) for more information.

**Faculty**

**Professors**
Eve Atkinson (eatkinson@wcupa.edu) (2008)
B.S., M.S., West Chester University; D.Ed., Temple University
Frances E. Cleland (ficleland@wcupa.edu) (1994)
Assistant Chairperson, Kinesiology
B.S., Purdue University; M.S., P.E.D., Indiana University
Monica P. Lepore (mlepore@wcupa.edu) (1983)
B.S., College of Mount Saint Vincent; M.S., University of Wisconsin; Ed.D., New York University
Margaret Ottley (mottley@wcupa.edu) (2001)
B.A., Spelman College; M.Ed., Ph.D., New York University
EXL 381. Fitness Assessment - Exercise Prescription Lab. 1 Credit.
Designed to prepare students to assess the physical fitness levels of healthy adults. Hands on experiences in measuring critical physiological variables as well as the following physical fitness components: cardiovascular endurance, muscular strength, muscular endurance, flexibility, balance and body composition. Students will have practice in interviewing clients and working with subjects performing physical activity.
Pre / Co requisites: EXL 381 requires prerequisites of EXS 380, EXL 380, and current CPR certification; and a co-requisite of EXS 381. Typically offered in Fall, Spring & Summer.

EXL 489. Clinical Exercise Testing and Interpretation Laboratory. 1 Credit.
This laboratory course will enable the student to learn from both ‘hands-on’ and computer simulated experiences. In both cases, reinforcing and illuminating concepts and clinical exercise principles introduced in EXS 489 (lecture class). Students will learn how to administer graded exercise tests, take blood pressure and heart rate measurements during exercise, administer and interpret standard resting and exercise 12-lead electrocardiograms at a fundamental level, and how to properly prescribe exercise based on test results and using metabolic calculations.
Pre / Co requisites: EXL 489 requires prerequisites of EXS 381, EXL 381 and a corequisite of EXS 489. Typically offered in Fall & Spring.

EXS

EXS 101. Group Exercise Leadership. 2 Credits.
The major goals of this course are to provide students with professional instruction on how to teach a variety of group exercise classes by applied learning techniques, to be able to lead exercise classes for all levels of fitness and for a wide variety of participants, including children, the elderly, and other special populations, and to modify moves to accommodate them. This course is designed to prepare the student to pass a nationally accredited certification exam for group exercise leadership. Typically offered in Fall & Spring.

EXS 102. Fundamentals of Resistance Training Techniques. 2 Credits.
Resistance training, also called weight training or strength training, is structured exercise in which muscles of the body are forced to contract under tension using weights, body weight, or other devices in order to stimulate growth, strength, power and endurance. This course provides the beginner student with hands-on experience using these various methods along with instruction on proper exercise technique and safety precautions. Typically offered in Fall & Spring.

EXS 103. Fundamentals of Group Exercise and Resistance Training. 3 Credits.
This course is intended to provide the student with the content knowledge and practical experience concerned with teaching group exercise classes. Furthermore, this class will provide the student with the skills necessary to properly perform essential exercises and the knowledge to teach others about the proper training techniques and form for the major muscle groups using a variety of exercises, free-weights, and machines. Typically offered in Fall & Spring.

EXS 180. Lifetime Fitness Concepts. 3 Credits.
Designed to provide an interdisciplinary understanding of the relationship between lifestyle, physical fitness, and health and well-being. Typically offered in Fall & Spring.

EXS 222. Introduction to Medical Terminology and Drug Classifications. 2 Credits.
This course offers an introduction to common clinical abbreviations and medical terms through an analysis of their construction including prefix, suffix, root, connecting and combining forms. The student acquires an understanding of medical meanings applicable to structure, function and diseases of the human body. Students will also learn how drugs are classified and for what major conditions they are used and learn how to use the Physicians Desk Reference. Distance education offering may be available. Typically offered in Fall & Spring.

EXS 223. Kinetic Anatomy. 2 Credits.
The purpose of this course is to lay the foundation for students to learn how anatomy affects movement of the human body. The course will build upon, reinforce, and challenge the student's basic knowledge of structural anatomy with the intention of acquiring a mastery of basic concepts in this discipline. Presentation of concepts will begin with whole body orientation by region, and then work additively and systematically from skeletal anatomy identifications and joint structure/alignment analysis, through muscular and neuromuscular investigation to provide a comprehensive study of clinically applied structural anatomy.
Pre / Co requisites: EXS 223 requires a prerequisite of BIO 259. Typically offered in Fall & Spring.
This class introduces basic anatomical and physiological concepts critical to understanding human movement, exercise, physical education and how the human body functions. The class examines the anatomy, physiology and exercise physiology of the skeletal and muscular systems. Throughout the course, special attention will be paid to the impact of development (growth and maturation) on the systems covered. Students will be required to apply these anatomical and physiological principles to physical education, exercise and sport. Typically offered in Fall & Spring.

EXS 270. Motor Learning. 3 Credits.
This course examines the behavioral, physiological, and psychological principles underlying motor control and motor learning. Specific topics include classifications and measurement of motor performance; the role and function of sensory processes, perception, memory, and attention; and the delivery of feedback and structure of practice. Distance education offering may be available. Typically offered in Fall & Spring.

EXS 280. The Exercise Science Profession. 1 Credit.
This course introduces students to the background of the exercise science profession, the meaning of professionalism, the Code of Ethics for the profession, certification options available within the field, relevant professional organizations, the relationship of the exercise scientist to the healthcare network, the scope of exercise science practice and various career options. In addition, students will learn about the academic requirements and curricular issues related to the Bachelor of Science in Exercise Science. Also students will understand how to build an impressive portfolio to support subsequent opportunities. Lastly, alternative career options and graduate education will be explored. Pre / Co requisites: EXS 280 requires a prerequisite of EXS 180. Typically offered in Fall & Spring.

EXS 361. Body Systems and Applied Anatomy II. 3 Credits.
This class introduces basic anatomical and physiological concepts critical to understanding human movement, exercise, physical education and how the human body functions. The class examines the anatomy, physiology and exercise physiology of the following systems: nervous, endocrine, cardiovascular, respiratory, digestive, and renal systems. Metabolism and the generation of energy will also be discussed. Throughout the course, special attention will be paid to the impact of development (growth and maturation) on the systems covered. Students will be required to apply these anatomical and physiological principles to physical education, exercise and sport. Typically offered in Fall.

EXS 362. Biomechanics. 3 Credits.
This course is intended to provide the student with a fundamental understanding of selected mechanical and anatomical laws of motion, actions caused by forces and their application to the study of mechanical structure and analysis of motion. Students will be able to use and apply these principles to various forms of movement. Pre / Co requisites: EXS 362 requires prerequisites of PHY 100 OR PHY 130 and EXS 223; and a corequisite of EXL 362. Typically offered in Fall & Spring.

EXS 364. Introduction to Exercise Physiology. 3 Credits.
Builds on the physiological concepts introduced in EXS 241. Students will be required to apply these physiological principles to physical education, exercise and sport. Pre / Co requisites: EXS 364 requires a prerequisite of EXS 241. Typically offered in Fall & Spring.

EXS 375. Sport and Exercise Psychology. 3 Credits.
This course is designed for students interested in the psychosocial issues related to sport and exercise behavior. This course will introduce students with theories and practices inherent in the field of sport and exercise psychology. Additional emphasis will include intervention strategies to promote exercise behaviors and long-term adherence to a physically active lifestyle. Pre / Co requisites: EXS 375 requires prerequisites of PSY 100 and EXS 270. Distance education offering may be available. Typically offered in Fall & Spring.

EXS 380. Exercise Physiology. 3 Credits.
This three credit course investigates the physiological principles which explain how the human body responds and adapts to physical activity, exercise and work. Pre / Co requisites: EXS 380 requires prerequisite BIO 269 and EXS 180; co-requisite of EXL 380. Typically offered in Fall & Spring.

EXS 381. Fitness Assessment - Exercise Prescription. 3 Credits.
Designed to prepare students to assess the physical fitness levels of healthy but sedentary adults and prescribe individualized exercise programs. Pre / Co requisites: EXS 381 requires prerequisites of EXS 380, EXL 380, and current CPR certification; and a co-requisite of EXL 381. Typically offered in Fall, Spring & Summer.

EXS 482. Strength Training and Conditioning. 4 Credits.
This course provides an overview of the theory, methods and techniques associated with the strength and conditioning of the cardiovascular and musculoskeletal systems. An emphasis will be placed on the acute and chronic adaptations to strength and conditioning programs, including novel methods such as plyometrics, speed/agility/speed-endurance training, and core training. Application of theory will be implemented through practical lab experiences. This course will also serve as a partial preparation for the CSCS exam given by the NSCA. Pre / Co requisites: EXS 482 requires prerequisites of EXS 362 and EXL 362 and EXS 380 and EXL 380. Typically offered in Fall & Spring.

EXS 484. Organization and Management of Adult Fitness Programs Clinic/Seminar. 3 Credits.
This course provides students with practical knowledge in organizing, managing and implementing adult fitness. Students will get hands on experience in the following areas: personal training, program design, leading group exercise classes, retention, liability protection, facility safety, facility design, budgeting, and promotion and marketing. Special emphasis is placed on standards and guidelines set forth by the American College of Sports Medicine (ACSM), and the National Strength and Conditioning Association (NSCA). Pre / Co requisites: EXS 484 requires prerequisites of EXS 381 and EXL 381. Typically offered in Fall & Spring.

EXS 486. Exercise Prescription - Special Population. 3 Credits.
Designed to provide students with practical experience in organizing and managing physical fitness programs for adults. Pre / Co requisites: EXS 486 requires prerequisite of EXS 381. Distance education offering may be available. Typically offered in Fall & Spring.

EXS 487. Physical Activity and the Environment. 3 Credits.
A survey course investigating the multidisciplinary nature of environmental physiology. It will explore the impact of different environments on the physiology of humans while at work and play. This course will examine the thermal environments (hot, cold, humidity), baraphysiology (altitude and depth), microgravity and space, air pollution, and chronobiological rhythms. Laboratory experiences, both computer simulation and ‘hands-on,’ will be included in the course. Pre / Co requisites: EXS 487 requires prerequisite of EXS 380 or BIO 468 or BIO 469.

EXS 489. Clinical Exercise Testing and Interpretation. 3 Credits.
This course is designed to teach students how to administer graded exercise tests, take blood pressure and heart rate measurements during exercise, administer and interpret standard resting and exercise 12-lead electrocardiograms at a fundamental level, and how to properly prescribe exercise based on test results and using metabolic calculations. Understanding the athletic heart is a major focus. Pre / Co requisites: EXS 489 requires a prerequisite of EXS 381, EXL 381, and a corequisite of EXL 489. Distance education offering may be available. Typically offered in Fall & Spring.
EXS 490. Internship. 3-6 Credits.
The Exercise Science internship course is a capstone experience that permits students to apply their academic training under the direction of certified fitness/wellness professionals and/or licensed clinical professionals. While classroom input is inherent in educational programs at West Chester University, the application of academic theory gives the student experiences that will add to their personal and professional maturity. The internship is a requirement for all students in the Exercise Science Division of the Kinesiology Department. The internship provides the student with the opportunity to ask pertinent questions, make observations, and to participate in agency activities that normally would not be possible for a paid, full-time employee. All internship experiences must be undertaken in an agency that guarantees to provide the student with supervision by an exercise specialist, physical therapist, occupational therapist, chiropractor, or physician’s assistant possessing appropriate academic and certification credentials as well as licensure, appropriate to the student’s concentration of study. Consent: Permission of the Department required to add. Typically offered in Fall & Spring.

EXS 491. Elective Internship. 1-6 Credits.
A supplemental experience to EXS 490 which will enable students to explore other internship or work settings including physical therapy, occupational therapy, chiropractic care, cardiac rehabilitation, strength and conditioning coaching, commercial fitness, corporate fitness, personal training, or similar related practice. The experience would be at a different site than the required internship - EXS 490. Hours required range between 42 (for one credit) to 250 hours (for six credits). Consent: Permission of the Department required to add. Typically offered in Fall, Spring & Summer.

EXS 499. Special Topics. 1-3 Credits.
This course will examine selected topics of temporal or special interest that are not normally part of the regular ongoing exercise science curriculum. Students will be provided an opportunity to pursue research, study, and/or application of knowledge and development of skills in an applied setting, which may include an off-campus component. Repeatable for Credit.

HPE

HPE 102. Adventure and Contemporary Activities. 2 Credits.
Provides future physical educators with the knowledge and skills necessary to instruct, demonstrate, and assess a variety of adventure and contemporary activities. Students will be able to setup, facilitate and process various ground initiatives as well as low and high ropes course elements. Students will also become proficient performing various contemporary or ‘alternative’ activities such as mountain biking, orienteering and tchoukball among others. Typically offered in Spring.

HPE 104. Fitness and Wellness I. 2 Credits.
Fitness and Wellness I is designed to provide Physical Education Teacher Education (PETE) students the foundational knowledge needed for teaching a comprehensive K-12 fitness and wellness curriculum. PETE students will gain the knowledge and skills they need to make meaningful and lasting behavior changes needed for living a healthy lifestyle. They will examine contemporary literature and research on fitness and wellness and participate in design, implement, and assess numerous pedagogical activities. Typically offered in Fall.

HPE 105. Fitness and Wellness II. 2 Credits.
This course (FW2) builds upon the information and concepts established in Fitness and Wellness I (FW1). While FW1’s foci were on scholastic curriculum and pedagogy, FW2 examines individual subjects commonly taught in public school physical education. In this course students will a) examine best instructional practices, b) study developmentally appropriate content, and c) apply pedagogical content knowledge by planning, teaching, and assessing fitness and wellness content. The goal of this course is to provide Physical Education Teacher Certification students with contemporary content and methods necessary to teach meaningful and effective classes. Pre / Co requisites: HPE 105 requires a prerequisite of HPE 104. Typically offered in Spring.

HPE 108. Introduction to School Wellness Education. 6 Credits.
Students will gain an introduction to school wellness education and basic foundational knowledge that will be used in succeeding coursework. School Wellness Education is defined as interdisciplinary approach to promoting comprehensive well-being through home, school and community interventions. The course will focus on collaborative approaches to wellness, best practices in wellness education and quality wellness programming in schools. Students will have multiple opportunities to develop lesson plans and teach those plans at a local elementary school. Topics also include Whole School, Whole Child, Whole Community (WSCC), advising, clearances, ethics, sub-disciplines and the history of wellness education. Clearances must be presented during the first week of classes to remain enrolled (see the College of Education). Typically offered in Fall.

HPE 140. Aquatic Fundamentals/ Emergency Water Safety. 2 Credits.
Review of basic aquatic skills with advanced stroke techniques, safety, and survival techniques. Typically offered in Fall & Spring.

HPE 186. Motor Development and Motor Learning. 3 Credits.
Understanding how children and adolescents acquire motor skills and become a skillful movers requires an integration of knowledge from the fields of motor development and motor learning. Motor development focuses on the progressive age-related changes in motor behavior attributed to growth, development and maturation. Motor learning focuses on the relatively permanent changes in motor behavior brought about by practice and experience. The focus of motor development and motor learning each provides a unique aspect to understanding the motor behavior of the moving child and adolescent; however it is the relationship between the aspects that provide a rich understanding of how both acquire motor skills. Physical education teachers must be able to use motor development knowledge to design goals appropriate for the developmental stage and perceptual motor abilities of the learner; and use motor learning knowledge to design appropriate movement tasks and practice conditions for the type of skill. Typically offered in Fall.

HPE 201. Developmental Gymnastics and Dance. 2 Credits.
The purpose of this two-credit course is to provide health and physical education teacher candidates with the appropriate methods, materials, and skills needed for teaching gymnastics and dance in the K-12 physical education curriculum. Focus will be placed on the development of skills and concepts as they relate to gymnastics and dance. Typically offered in Fall.

HPE 202. Invasion Games. 2 Credits.
The course will incorporate three elements throughout the semester: teaching, performance, and analysis. The Tactical Games Approach for all subjects will be utilized along with a clear focus on an Invasion Game concept, will be used to develop a clear and logical teaching approach to various physical education subjects. With this approach the students will learn each sport in its entirety, not just the specific skills used when in possession of the ball or disc. Students will be required to develop fundamental demonstration skills for each sport while simultaneously learning the skill progression for each. After learning each skill, the students will then perform systematic analyses on their classmate’s performance on various motor skill elements. Typically offered in Fall.

HPE 203. Net and Wall Games. 2 Credits.
The course provides future physical educators with the knowledge and skills necessary to instruct, demonstrate, and assess the lifetime sports of tennis, badminton, volleyball, and pickelball. The Tactical Games Approach for all subjects will be utilized along with a clear focus on the Invasion Games concept and will be used to develop a clear and logical teaching approach to various physical education topics. With this approach students will learn the different sports in their entirety, not just specific skills used when in possession of the ball. Students will be required to develop fundamental demonstration skills for each sport while simultaneously learning the skill progression for each. After learning each skill, the students will then perform systematic analyses on their classmate’s performances on various motor skill elements. Typically offered in Spring.
HPE 205. Curriculum and Instruction: Inclusion in Health & Physical Education. 3 Credits.
To provide Health and Physical Education majors with the skills, knowledge and attitudes: 1) to provide individuals with disabilities appropriate physical education/activity in inclusive setting; 2) to prepare participants with disabilities for lifet ime physical activity and fitness pursuits in the school and community settings; 3) to advocate for appropriate physical activities for individuals with disabilities; 4) to modify the environment for participation of individuals with disabilities to the maximal extent possible in the general physical education class/community based settings; 5) to assess students with disabilities and make recommendations for goals, objectives, specifically designed instruction, placement, and modifications to curriculum, equipment, and other support services; 6) to work as a team player on the multidisciplinary team.
Pre / Co requisites: HPE 205 requires prerequisites of KIN 103 and HPE 186. HPE 205 requires a corequisite of HPE 206. Field clearances required.
Typically offered in Spring.

HPE 206. Adapted PE & Health for Students with Disabilities. 3 Credits.
Through classroom and hands-on teaching experiences this course will provide health and physical education teacher certification majors with the skills, knowledge and attitudes to meet the needs of students with disabilities in inclusive and segregated health and physical education classes and to meet the NASPE beginning teacher standards and the PA chapter 49.13 special education standards.
Pre / Co requisites: HPE 206 requires prerequisites of KIN 103, HPE 186, and field clearances. HPE 206 requires a corequisite of HPE 205.
Typically offered in Spring.

HPE 300. Curriculum and Instruction Elementary PE. 3 Credits.
Students in this course will examine the design, implementation and assessment of an elementary physical education program.
Pre / Co requisites: HPE 300 requires prerequisites of KIN 103 and HPE 186.
Typically offered in Fall.

HPE 302. Curriculum and Instruction Mid-Sec PE. 3 Credits.
This third course in pedagogy will relate all topics to the middle and secondary physical education setting. Intended to give students a comprehensive overview of topics that relate to the planning, execution and reflection of lessons presented in the physical education setting.
Pre / Co requisites: HPE 302 requires prerequisites of KIN 103 and HPE 186.
Typically offered in Spring.

HPE 304. Secondary School Wellness Education. 6 Credits.
Teacher candidates will learn to positively impact the wellness of K-12 students through the Whole School, Whole Child and Whole Community framework. As part of the course, students will learn to plan and implement effective middle and high school wellness education lessons, follow developmentally appropriate practices, demonstrate best practices, describe an effective secondary wellness program and design a school wellness policy as required by Federal law. The course addresses the Center for Disease Control and Prevention’s (6) risk behaviors which lead to premature death and disability.
Pre / Co requisites: HPE 304 requires prerequisites of HPE 108 and HPE 186.
Typically offered in Fall.

HPE 305. Pedagogy and Critical Issues in Urban School Wellness Education. 3 Credits.
This course affords teacher candidates the opportunity to gain the experience, confidence and pedagogical skills to effectively teach school wellness education in an urban setting. The course will examine critical issues such as the social, cultural, historical, political, and economic forces that have shaped their development and that of urban schools. An emphasis will be placed on analyzing and reflecting critically on past and present educational reform initiatives and how they impacted the students, teachers, families and the community. Finally, topics such as the racial achievement gap, immigration, deindustrialization, suburbanization, crime and relevant community institutions will be explored.
Pre / Co requisites: HPE 305 requires prerequisites of HPE 108 and HPE 186.
Typically offered in Spring.

HPE 347. Software Applications and Assessment HPE. 3 Credits.
Students apply word processing and graphics software to produce knowledge tests, worksheets, skill checklists, certificates of merit, and public relations handouts. Spreadsheet software will be applied to budget and inventory projects. Grading, crossword puzzle, computer-assisted instruction, and physical fitness assessment software also will be applied.
Students also will learn e-mail.
Typically offered in Spring.

HPE 402. Physical Education Practicum. 3 Credits.
Field-based teaching experience in K-12 health and physical education.
Pre / Co requisites: HPE 402 requires prerequisites of HPE 205, HPE 206, HPE 300, HPE 302, field clearances and FATE (formal admission to teacher education required). Consent: Permission of the Department required to add.
Typically offered in Fall.

HPE 403. School Wellness Education Practicum. 6 Credits.
Teacher candidates will acquire the knowledge and skills to promote a culture of wellness in the classroom and throughout the school based upon the ten components of the Whole School, Child and Community Model. Teacher candidates will a) demonstrate best instructional practices in wellness education, b) study developmentally appropriate content, c) implement the whole school, whole child and whole community framework, d) analyze and reflect upon their own and others’ teaching, and e) apply pedagogical content knowledge by planning, implementing, assessing and reflecting upon teaching experiences in wellness education. The ultimate goal of this course is to effectively implement these strategies through the successful completion of planned instruction.
Pre / Co requisites: HPE 403 requires prerequisites of HPE 300, HPE 304, and Formal Admission to Teacher Education (FATE).
Typically offered in Fall.

HPE 489. Student Teaching. 6 Credits.
Health and physical education teaching situations in elementary, junior, and senior high schools under qualified cooperating teachers and college supervisors.
Pre / Co requisites: HPE 489 requires prerequisites of HPE 402, HEA 304, HEA 306, HEA 440 with a grade of C or better and formal admission into teacher education. All field clearances required and successful completion of Praxis II test.
Consent: Permission of the Department required to add.
Typically offered in Spring.

HPE 490. Student Teaching. 6 Credits.
Observation and participation in health and physical education teaching situations in elementary, junior, and senior high schools under qualified cooperating teachers and college supervisors.
Pre / Co requisites: HPE 490 requires prerequisites of HPE 402, HEA 304, HEA 306, HEA 440 and formal admission into teacher education. All field clearances needed and successful completion of Praxis II test.
Consent: Permission of the Department required to add.
Typically offered in Spring.
Repeatable for Credit.

KIL

KIL 363. Adapted Physical Activity Practicum. 1 Credit.
Practicum experience working in an adapted physical activity setting. Includes writing and implementing lessons and individual goals.
Pre / Co requisites: KIL 363 requires prerequisites of HPE 205 and HPE 206.
Typically offered in Fall & Spring.

KIN

KIN 101. Intro to Adventure Based Educ. 3 Credits.
A course designed for the student to understand the adventure approach to experiential education in various environments. The students will have the opportunity to experience an adventure curriculum including initiatives, problem-solving activities, and low and high ropes course elements.
Typically offered in Fall & Spring.

KIN 102. Introduction to Teaching Physical Education. 3 Credits.
Students will gain an introduction to the field and basic foundational knowledge that will be used in succeeding coursework. The majority of the course will focus on best practices in physical education instruction and quality physical education programs. Students will have multiple opportunities to develop lesson plans and teach those plans at a local elementary school. Topics also include advising, clearances, ethics, health education, sub-disciplines of kinesiology and the history of physical education. Clearances must be presented during the first week of classes to remain enrolled, see the College of Education.
Typically offered in Fall.
KIN 246. Sport, Culture and Society. 3 Credits.
Current theories and research in the area of sport and society will be introduced. Focus of the course is interdisciplinary, incorporating sociological, psychological, historical, anthropological, philosophical, and economic perspectives. Topics include moral, ethical, racial, and gender issues in sport in relation to the North American culture.
Gen Ed Attribute: Diversity Requirement, Interdisciplinary Requirement.

KIN 253. Adapted Aquatics, Lifetime Sport, and Fitness. 3 Credits.
This course is designed to increase knowledge and skills in providing appropriate and safe adapted aquatics, sports, and fitness activities to individuals with disabilities. Outside hours required.
Typically offered in Fall.

KIN 254. Disability Studies: An Interdisciplinary Introduction. 3 Credits.
A study of the psychological and social implications of physical disabilities.
Distance education offering may be available.
Typically offered in Fall & Spring.

KIN 275. Lifeguarding. 2 Credits.
Theory and techniques relative to preventive lifeguarding, emergencies in and around water, water rescues, search and recovery operations, types and uses of equipment, records and reports, health and sanitation, and supervision of waterfront areas. Possibility of American Red Cross certification.

KIN 360. Path for Adapted Phys Act Specialists. 3 Credits.
Study of common disabling conditions with regard to anatomical and physiological changes and the modifications needed to be made during physical activity to be safe, successful and follow best practice.
Typically offered in Spring.

KIN 362. Assessment and Programming Adapt Phy Act. 3 Credits.
For students who want to specialize in adapted physical education. To improve students' understanding of evaluation and programming in the psychomotor domain for special populations. Principles of therapeutic exercise, and guidelines for exercise programs for those disabilities commonly seen in schools and fitness centers.
Typically offered in Spring.

KIN 400. Professional Seminar - Adapted Physical Activity. 3 Credits.
Issues and current events in the professional development of adapted physical activity specialists including communication and collaboration with related personnel; understanding requirements for job applications, resume building, and grant writing; professionalism; and current topics such as certification, ethics, and public relations.
Pre / Co requisites: KIN 400 recommends the following prerequisite courses: HPE 205, HPE 206, and KIN 362.
Typically offered in Spring.

KIN 448. Research Lab Techniques In Prevent Medicine. 3 Credits.
Research laboratory techniques in preventive medicine.
Pre / Co requisites: KIN 448 requires a prerequisite of BIO 259.
Typically offered in Fall & Spring.

KIN 452. Principles Of Coaching. 3 Credits.
Principles and methods of coaching sports in the school program.
Typically offered in Fall & Spring.

KIN 458. Physical Disabilities Of Childhood. 2 Credits.
A course designed for students in special education. Common orthopedic and neurological disabilities of childhood, especially chronic deviations. Emphasis is on understanding the medical aspects and problems of rehabilitation.

KIN 465. Mechanical Analysis Of Motor Skill. 3 Credits.
A problem-solving approach to skill analysis using qualitative and quantitative video and cinematographic analysis as well as elementary force-time and accelerometry techniques. Useful for teachers, trainers, coaches, and exercise professionals.

KIN 473. Independent Study and Special Projects. 1-3 Credits.
Provide an opportunity for selected students to pursue areas of special interest and talent or to take advantage of special conferences or seminars. Consent: Permission of the Department required to add.

KIN 475. Mental Training In Sport. 3 Credits.
Techniques of mental training for sport and physical activity, including relaxation training, concentration skills, breathing regulation, positive imagery, autogenic training, and meditation.
Typically offered in Spring.

KIN 498. Physical Education Workshop. 1-3 Credits.
Contact department for more information about this course. Repeatable for Credit.

PEA
PEA 100. Basic Swimming (Non Swimmers). 2 Credits.
Contact department for more information about this course.

PEA 115. Physical Conditioning. 2 Credits.
Contact department for more information about this course. Repeatable for Credit.

PEA 116. Personal Defense. 2 Credits.
Contact department for more information about this course.
Typically offered in Fall & Spring.

PEA 120. Badminton. 2 Credits.
Contact department for more information about this course.
Typically offered in Fall & Spring.

PEA 123. Golf. 2 Credits.
Contact department for more information about this course.
Typically offered in Fall & Spring.

PEA 125. Women's Gymnastics. 2 Credits.
Contact department for more information about this course.

PEA 128. Tennis. 2 Credits.
Contact department for more information about this course.
Typically offered in Fall & Spring.

PEA 129. Fitness Through Basketball. 2 Credits.
Contact department for more information about this course.

PEA 137. Strength Training. 2 Credits.
Contact department for more information about this course.
Typically offered in Fall & Spring.

PEA 140. Aerobic Fitness. 2 Credits.
Contact department for more information about this course.
Typically offered in Fall & Spring.

PEA 141. Water Fitness. 2 Credits.
Contact department for more information about this course.

PEA 142. Yoga. 3 Credits.
Contact department for more information about this course.
Typically offered in Fall & Spring.

PEA 143. Yoga II. 3 Credits.
The purpose of this course is to provide each student with the opportunity to develop his or her yoga practice in order to realize the potential for self awareness and appreciation for healthy living that can be achieved through the continued practice of yoga.
Pre / Co requisites: PEA 143 requires prerequisite of PEA 142.
Typically offered in Fall & Spring.

PEA 144. T’ai Chi Ch’uan. 3 Credits.
This course will be the study of a martial art that combines movement with chi. T’ai Chi Ch’uan uses the principals of Yin-Yang and the Five Element theories and is compatible with Chinese medicine, acupuncture, and Chinese herb treatment. The name refers to the Chinese concept of the Grand Ultimate, or of Yin and Yang. T’ai Chi Ch’uan is performed slowly and with smooth continuous motion, unlike most other martial arts that are performed with speed and power. T’ai Chi Ch’uan builds power internally and does not rely on body strength alone and can be practiced from childhood into old age with no risk to the practitioner. The study of movement, skeletal structure and T’ai Chi as a Meditative Art will be included in the courses.
Typically offered in Fall & Spring.
PEA 146. Pilates. 3 Credits.
This course is designed to provide each student with the skill and knowledge to perform the 6 basic principles that are the core of the Pilates method—Centering, Concentration, Control, Precision, Breathing, and Flowing Movement. Exercises and activities are developed to assist students in strengthening musculature, in spinal alignment and in gaining effective breathing. Typically offered in Fall & Spring.

PEA 236. Developing Personal Fitness Programs. 2 Credits.
This course, designed for nontraditional students and students with disabilities, provides an understanding of the scientific basis of physical fitness. The course is intended to help each student develop a personal fitness profile and subsequent program of physical activity that will result in healthful living. The course will make use of practical experience and actual participation in fitness activities. Individual programs will be emphasized.

PEA 242. Yoga III. 3 Credits.
This course is the third in the Yoga sequence and will provide further development of Yoga skills for the participant. Individual interested in teaching Yoga will explore teaching methodology and will address the individual requirements established by the Yoga Alliance. Pre / Co requisites: PEA 242 PREREQ: PEA 142 and PEA 143 or permission of instructor. Typically offered in Spring.

PEA 244. T'ai Chi Ch'uan II. 3 Credits.
The goal of this course is to provide students with an advanced knowledge and skill sets required to practice the art of T'ai Chi Ch'uan and Push Hands. Longevity and rejuvenation are the primary goals of Tai Chi, a system of slow, gentle, non-strenuous movements ideal for persons of any age who want to stay flexible, increase their energy and reduce stress. T'ai Chi promotes health, balance, coordination and tranquility. It leads to more graceful effortless movement in everyday life. This is an ideal opportunity to try out this wonderful, low stress form of exercise. Typically offered in Spring.