877. Seismotectonics
Spring, 3(3-0) GLG 479, GLG 871 or approval of department.
Analysis of the state of stress and relative motions of the lithosphere through the study of earthquakes. Focal mechanism determinations, plate tectonics, faulting source processes, earthquake prediction, quantification and earthquake location, and relevant theory.

892. Carbonate Petrology
Spring, 4(3-2) GLG 392, GLG 497.
Petrology, petrography, and geochemistry of carbonate sediments and rocks. Emphasis on diagenesis. Chemical and mineralogic trends through time. The role of diagenesis in petroleum reservoir potential.

894. Aquifer Geochemistry
Fall, 3(3-0) GLG 497 or a course in physical chemistry or approval of department. Nature and regulation of electrolytes in solution (fresh water, seawater, brine); activity, complexation, and redox effects. Trace metals in solution. Carbonate, silica, alumina systems. Chemical weathering and mobility of elements.

898. Petrology of Mineral-Water Interactions
Winter, 4(3-3) GLG 492 or GLG 491; GLG 894.
Mineralogy, petrology, and geochemistry of fluid-rock reactions in the geologic cycle, including rock and mineral weathering; genesis and burial diagenesis of sediments and sedimentary rocks; and metamorphism.

909. Master's Thesis Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

999. Doctoral Dissertation Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

Earth Science

445. Field Studies
Fall, Winter, Spring, Summer. 1 to 2 credits. May reenroll for a maximum of 9 credits. Approval of department.
Experience and techniques in field investigation of the near surface layers of the earth.

448. Laboratory Investigations
Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 15 credits. E S 445 or concurrently.
Independent laboratory investigation of materials and phenomena obtained from field studies.

800. Problems in Earth Science
Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 12 credits. Approval of department.
Independent study in topics related to earth science education.

GERMAN AND RUSSIAN
See Linguistics and Germanic, Slavic, Asian and African Languages.

GERMAN
See Linguistics and Germanic, Slavic, Asian and African Languages.

GREEK
See Romance and Classical Languages.

HEALTH EDUCATION, COUNSELING PSYCHOLOGY AND HUMAN PERFORMANCE

College of Education

College of Human Medicine

College of Osteopathic Medicine

Instructional Courses

Physical Education instructional courses are offered every term to give students an opportunity to become involved in physical activities that will benefit them, not only in attaining physical well being, but in acquiring a measure of carry-over skill which will promote a healthful way of life through continued participation. The areas of selection are: HPE 104-105, Individual Sports (Golf, Bowling, etc.); HPE 106-107, Dual Sports (Tennis, Racquetball, etc.); HPE 108, Team Sports (Soccer, Softball, etc.); HPE 109, Aquatics (Beginning Swimming, Life Saving, etc.); HPE 110, Gymnastics (Floor Exercises, Apparatus, etc.); HPE 111, Dance (Social, Danceercise, etc.); HPE 211, Dance (Modern, Ballet, etc.); and HPE 270, The Healthy Lifestyle.

104. Individual Sports I
Fall, Winter, Spring. 1/3(0-3) May reenroll for a maximum of 12 credits if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 12 credits in HPC 104 through HPC 111.
Development of sports skills and physical fitness through participation in individual sports activities.

105. Individual Sports II
(HPE 105.) Fall, Winter, Spring, Summer. 1/3(0-3) May reenroll for a maximum of 12 credits if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 12 credits in HPC 104 through HPC 111.
Development of sports skills and physical fitness through participation in individual sports activities.

106. Dual Sports I
(HPE 106.) Fall, Winter, Spring, Summer. 1/3(0-3) May reenroll for a maximum of 12 credits if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 12 credits in HPC 104 through HPC 111.
Development of sports skills and physical fitness through participation in dual sports activities.

107. Dual Sports II
Fall, Winter, Spring, Summer. 1/3(0-3) May reenroll for a maximum of 12 credits if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 12 credits in HPC 104 through HPC 111.
Development of sports skills and physical fitness through participation in dual sports activities.

108. Team Sports
Fall, Winter, Spring. 1/3(0-3) May reenroll for a maximum of 12 credits if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 12 credits in HPC 104 through HPC 111.
Team sports skills and physical fitness through participation in group activities.

109. Aquatics
Fall, Winter, Spring, Summer. 1/3(0-3) May reenroll for a maximum of 12 credits if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 12 credits in HPC 104 through HPC 111.
Aquatics skills, physical fitness, and water safety.

110. Gymnastics
Fall, Winter, Spring. 1/3(0-3) May reenroll for a maximum of 12 credits if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 12 credits in HPC 104 through HPC 111.
Gymnastics skills and physical fitness through tumbling and apparatus.

111. Dance
Fall, Winter, Spring. 1/3(0-3) May reenroll for a maximum of 12 credits if different activities or the same activities at higher levels are involved. Students are limited to a combined total of 12 credits in HPC 104 through HPC 111.
Beginning and intermediate folk dance, social dance, square dance, and danceercise.

270. The Healthy Lifestyle
(HPE 270) Fall, Winter, Spring. 3(2-2)
Study and assessment of cardiovascular risk factors, habits, and physical capacities to develop a personalized lifestyle for optimal health and longevity. Individual physical regimens required as part of the course.

Professional Courses


120. Personal Health
Fall, Winter, Spring. 3(3-0)
Development of understandings, attitudes and practices that are necessary for more healthful living. Provides background for teaching health to children.
Descriptions — Health Education, Counseling Psychology and Human Performance

Courses

125. First Aid and Emergency Care
Fall, Winter, Spring. 3(3-0)
Knowledge and skills relative to: legal liability, wounds, shock, respiratory disorders and artificial respiration, cardiac disorders and cardiovascular resuscitation, burns, fractures, poisoning, drug overdose, emergency childbirth, transportation techniques, extrication techniques and environmental emergencies.

130. Professional Perspectives
Fall. 1(0-2)
Exploration of physical education and coaching through micro-teaching and laboratory experiences concerning goals and objectives, scientific bases of coaching and teaching, and laws related to legal liability and safety.

140. Methods and Materials of Physical Education
(HPE 140.) Fall, Winter, Spring. 1 to 6 credits. May enroll for a maximum of 18 credits. Each student must register for a total of 6 credits during the first fall term enrolled in the course. The number of credits in each additional enrollment must equal the number of activities to be covered during the term. Approval of school.

Skills and knowledge related to various physical activities are covered as competencies for future teaching. The abilities of each student are evaluated and individual attention is given to identified deficiencies.

151. Outdoor Education Activities I
Fall. 2(3-3)
Knowledge, appreciation and skills of outdoor educational activities for seasonal use - backpacking, camping, rifle and shotgun shooting.

152. Outdoor Education Activities II
Winter. 2(3-3)
Knowledge, appreciation, and skills of outdoor educational activities for seasonal use - cross country skiing, ice fishing, snowshoeing, winter camping.

153. Outdoor Education Activities III
Spring. 2(3-3)
Knowledge, appreciation, and skills of outdoor educational activities for seasonal use - canoeing, casting, orienteering, and survival.

216. Applied Human Anatomy
Fall. 5(4-3) HCP major or coaching minor, approval of department. Interdepartmental with and administered by the Department of Anatomy.
Structural anatomy of the various systems of the human body. Concepts of kinesiological applications.

240. Measurement in Physical Education
Winter. 4(3-2) HCP 140 or concurrently; 1 year high school algebra.
Measurement and evaluation techniques for use in physical education programs.

246. Functional Analysis of Physical Activity
Spring. 4(3-2) ANT 216; PSL 240; PSL 241.
An extension of PSL 241 to include information relevant to exercise and training applications. Immediate, chronic, and residual effects of physical activity regimens are presented. Exercise prescription is emphasized.

252. Structural Analysis of Physical Activity
Fall, Winter, Spring. 3(2-3) ANT 216.
Techniques of the analysis of human movement based upon body structure and muscular action.

253. Mechanical Analysis of Physical Activity
Fall, Spring. 4(3-2) ANT 216; one year high school algebra.
Techniques of analysis of human movement based upon mechanical principles.

260. Developmental Analysis of Physical Activity
Fall, Spring. 3(3-0) HCP 252; HCP 253 or concurrently. Not open to students with credit in HCP 440 or HCP 480.
Analysis of sequential progression of fundamental motor skills - infancy through late childhood. Physical growth patterns and biological maturity as related to motor performance and social development.

261. Psychomotor Analysis of Physical Activity
Fall, Spring. 3(3-0) Not open to students with credit in HCP 480.
Application of learning theories and principles to the acquisition of motor skill learning; factors affecting skill acquisition; instructional considerations.

306. Athletic Training
Winter. 3(2-2) HCP 246 or concurrently; HCP 252; HCP 253 or concurrently.
Principles governing conditioning of athletes for various sports; different types of athletes; physiological rules, study of weight sheets, massage; prevention of stances, symptoms and treatment; work and rest; prevention and treatment of injuries.

310. Cultural Analysis of Physical Activity
Fall. 3(3-0) Not open to Freshmen. Historical and sociological analysis of the development of physical education, sports, and dance, and their roles in current society.

316. Community Health Problems
Winter, Spring. 3(3-0) HCP 120.
Knowledge and understanding of community health problems and needs. Special attention to various health organizations working toward solution of these problems.

328. School Health Problems
Fall, Winter. 3(3-0) HCP 120.
Health problems of school-age children. Special attention to school health services and healthful school living.

342. Techniques of Teaching Physical Activities I
Fall. 4(3-0) HCP 140, HCP 240, HCP 246, HCP 248, HCP 360; HCP 261; demonstrated competence in skills and knowledge related to conditioning, swimming and volleyball.
Advanced teaching techniques, analysis of fundamentals, and application of kinesiological principles in conditioning, swimming and volleyball.

343. Techniques of Teaching Physical Activities II
Winter. 2(0-6) HCP 140, HCP 240, HCP 246, HCP 248, HCP 260; HCP 261; demonstrated competence in skills and knowledge related to conditioning, swimming and volleyball.
Advanced teaching techniques, analysis of fundamentals, and application of kinesiological principles in conditioning, swimming, and volleyball.

344. Techniques of Teaching Physical Activities III
(HPR 344., HPE 344.) Spring. 2(0-6)
HCP 140, HCP 240, HCP 246, HCP 260, HCP 261; demonstrated competence in skills and knowledge related to golf, soccer and tennis.
Advanced teaching techniques, analysis of fundamentals, and application of kinesiological principles in golf, soccer and tennis.

345. Water Safety Instructor
Fall, Winter, Spring. 2(1-4) Senior Life Saving Certificate.
Analysis of teaching swimming with application of kinesiological principles as they apply to swimming. Students can earn Red Cross W.S.I. Certification.

349. Baseball Coaching
Fall. 3(2-3) Majors, minors or approval of school.
Fundamentals and proper methods of fielding each position; qualifications for positions; teamwork and strategy; study of rules; techniques of officiating.

350. Basketball Coaching
Fall. 3(2-3) Majors, minors or approval of school.
History and techniques: fundamentals, equipment; treatment of injuries; methods of training; coaching; rules and various types of offense and defense, and techniques of officiating.

352. Football Coaching
Winter. 3(2-3) Majors, minors or approval of school.
Equipment; conditioning; fundamentals; individual positions; offense; defense; signals; generality; strategy; interpretation of rules; and techniques of officiating.

353. Golf Coaching
Fall of odd-numbered years. 3(2-3) Majors, minors or approval of school.
Coaching of skills and strategies, training and conditioning procedures, purchase and maintenance of equipment, rules and officiating techniques.

354. Gymnastics Coaching
Spring. 3(2-3) Majors, minors or approval of school.
Teaching techniques and fundamentals of apparatus stunts, individual and doubles tumbling stunts, techniques of constructing aesthetic programs. Emphasis on building stunt routines and safety measures in gymnastics. Techniques of officiating.

357. Tennis Coaching
Fall of even-numbered years. 3(2-3) Majors, minors or approval of school.
Coaching of skills and strategies, training and conditioning procedures, purchase and maintenance of equipment, rules, and officiating techniques.
355. Track and Field Coaching
Fall. 3(2-3) Majors, minors or approval of school.
Organization and development of track and field athletics. Administration and handling of competitions, techniques of various events and methods of training and evaluating candidates. Techniques of officiating.

371. Advanced Basketball Coaching
Winter. 3(2-3) HCP 350.
Advanced techniques in offensive and defensive strategy, equipment, training personnel, scouting, and officiating.

372. Advanced Football Coaching
Spring. 3(2-3) HCP 352.
Analysis of best known offensive and defensive systems. Modern techniques of training, game strategy, scouting, and officiating.

390. Supervised Teaching—Content Areas
Fall, Winter, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 6 credits. Approval of school.
Clinical experience teaching in various content areas.

403. Fieldwork in Health or Physical Education
Fall, Winter, Spring. 1 to 8 credits. May reenroll for a maximum of 8 credits. Graduate students are limited to a combined total of 15 credits in HCP 403, HCP 479, HCP 884, HCP 885. Approval of school.
Laboratory course in which student acts as a leader under supervision in community or school health and physical education programs.

404. Facility Planning and Construction
Winter. 4(4-0)
Planning of athletic and physical education facilities such as gymnasia, ice rinks, swimming pools, outdoor areas, etc., will be covered. Space utilization standards and guidelines will be presented along with the selection of equipment.

405. The School Health Program
Fall. 3(3-0) Eight credits in Health Education and Human Performance or approval of school.
Coordination of all aspects of school health with other school programs, with outside agencies, and with community at large. Policies governing the administration of staff, facilities, and programs.

440. Developmental Basis of Motor Skills
Fall, Winter, Spring. 4(3-3) Not open to Physical Education and Exercise Science majors, coaching minors or students with credit in HCP 260 or HCP 480.
Emphasizes the developmental sequence of fundamental motor skills and the influence of physical growth and biological maturation on motor development.

441. Physical Education in Elementary Schools I
Fall. 2(0-6) HCP 260 or HCP 440.
Physical education curriculum and instruction in skills, games, and rhythms for the early elementary school child. Selection and presentation of activities and development of activity sequences.

442. Physical Education in Elementary Schools II
Spring. 2(1-3) HCP 260 or HCP 440.
Physical education curriculum and instruction in low organized and lead-up activities to team sports for late elementary school children. Selection and presentation of activities and development of activity sequences.

452. Adapted Physical Education
Fall, Spring. 3(2-2) HCP 360 or HCP 440; T E 332 or T E 305 or concurrently. Principles and procedures in selecting and sequencing learning activities of school age children with handicapped conditions that require special physical education programs or adapted activities in the regular program.

453. Practicum in Adapted Physical Education
Fall, Winter, Spring. 1 to 6 credits. May reenroll for a maximum of 6 credits. HCP 452 or concurrently; or approval of school.
Supervised practice in teaching physical education and/or coaching sport for persons with disabilities.

454. Principles of Coaching
Spring. 3(5-0) HCP 246 or concurrently; HCP 252 or concurrently; HCP 253 or concurrently. Not open to Physical Education and Exercise Science majors or to students with credit in HCP 260, HCP 261 or HCP 440.
Coach and athlete in the areas of administration, growth and development, motor skill acquisition, philosophy, psychology and sociology.

456. Advanced Athletic Training
Fall. 2(2-0) Approval of school.
Organization and administration of athletic training programs including injury prevention, management and rehabilitation. Special problems in training and game equipment and facilities are reviewed.

457. Safety Education
Fall, Winter. 2(0-3)
Safety problems in the home, school, and community; safety education programs in the elementary, junior and senior high schools.
Descriptions — Health Education, Counseling Psychology and Human Performance of Courses

819. Motor Skill Learning
Winter. 3(0-0) Approval of school.
Research and theory of learning and performance applied to gross motor skills. Emphasis on the neuromuscular and cybernetic bases of motor skill acquisition.

823. Laboratory Orientation
Fall. 2(0-0) Approval of school.
Laboratory techniques with emphasis on maintenance, calibration and operation of laboratory instruments.

824. Somatic Foundations of Physical Activity I
Fall. 3(0-0) Approval of school.
Immediate and chronic physiological effects of physical exercise.

825. Somatic Foundations of Physical Activity II
Winter. 3(0-0) HCP 824.
Continuation of HCP 824.

826. Somatic Foundations of Physical Activity Laboratory
Spring. 2(1-3) HCP 825.
Laboratory course based on the subject matter of HCP 824 and HCP 825.

831. Social Aspects of Sport Participation
Spring of even-numbered years. 3(3-0)
Approval of school.
The role of sport in the lives of its participants from a sociological perspective. The major topics of discussion will focus on the female athlete, the male athlete, and the coach.

832. Sport as a Social Institution
Spring of odd-numbered years. 3(3-0)
Approval of school.
Sport as an institution from a sociological perspective at the macro level. The focus will be on the interrelationships between sport and such social systems as politics, economics, entertainment and religion.

835. Motivational Bases in Sport Psychology
Fall. 3(0-0). Approval of school.
Sport psychological research findings in the areas of motivation, feedback, reinforcement, expectations and modeling.

836. Social Processes in Sport Psychology
Winter. 3(0-0) Approval of school.
Social psychology of sport. Research findings in the areas of aggression, attitude development and personality. Moral development and sports socialization.

840A. Counseling Practice
Fall, Summer. 3(3-0) Admission to M.A. Counseling Program, Interdepartmental with and administered by the Department of Counseling, Educational Psychology and Special Education.
The practice of counseling and guidance in schools, community colleges, and rehabilitation agencies.

840C. The Guidance Information Service
Winter. 3(0-0) CEP 640A, CEP 840B, Interdepartmental with and administered by the Department of Counseling, Educational Psychology and Special Education.
The use of occupational, educational and social information in counseling interviews and in guidance programs.

840F. Counseling Practicum I
Fall, Winter, Spring. 6(4-8) CEP 840C, CEP 840D, Interdepartmental with and administered by the Department of Counseling, Educational Psychology and Special Education.
Supervised counseling experienced in selected schools and agencies followed by analysis and critique of these experiences through group and individual consultation with instructor.

844. Physical Education for Students with Mental, Emotional, or Learning Disabilities
Winter. 3(0-0) HCP 452, CEP 460 or approval of school.
Research findings, curriculum development and instructional procedures in physical education for students with mental, emotional, or learning disabilities.
Approved through Fall 1989.

845A. Curriculum and Instruction in Adapted Physical Education
Spring. 3(3-0) HCP 883 or approval of school.
Curriculum design and effective teaching practices in physical education for students with disabilities.

845B. Research on Sport for Disabled Athletes
Winter. 3(0-0) Approval of school.
Research in exercise physiology, sport biomechanics, sport psychology, sport sociology, motor development, and motor learning related to the performance capabilities of disabled athletes.

845C. Practicum in Adapted Physical Activity
Fall, Winter, Spring. 1 to 6 credits. May re enroll for a maximum of 6 credits. HCP 845A or concurrently or approval of school.
Supervised practice in teaching or coaching physical education or sport skills to persons with disabilities.

846. Physical Education for Students with Physical or Sensory Disabilities
Spring. 3(3-0) HCP 452, CEP 450 or approval of school.
Research findings, curriculum development, and instructional procedures in physical education for students with physical and sensory disabilities.
Approved through Fall 1989.

850. Individual Study
Fall, Winter, Spring. Summer. 1 to 6 credits. May re enroll for a maximum of 6 credits. Approval of school.

853. Biomechanical Analysis of Physical Activity I
Winter. 3(2-4) Approval of school.
Study of mechanical and anatomical characteristics of physical skills through the use of such investigative and research tools as visual observation, still photography, stroboscopic photography and high speed cinematography.

854. Biomechanical Analysis of Physical Activity II
Spring. 3(0-0) HCP 853 or approval of school.
Study of mechanical and anatomical characteristics of physical skills through the use of such investigative and research tools as electromyography, electrogoniometry, force recording device and multiple instrumentation systems.

860. Administration of Physical Education in Schools and Colleges
Fall. 3(0-0) Approval of school.
Designed to familiarize majors in this and other areas with administrative problems incident to high school and college programs of physical education for men and women.

862. Training and Consultation Techniques
Fall. 3(0-0) Approval of school.
Techniques in staff training, workshops and consultation, assessment of training needs, preparation of materials, delivery and evaluation.

863. Systems Approach to Program Planning
Winter. 3(0-0) HCP 862 or approval of school.
Principles and practices related to systems design, accountability models, and innovative techniques in curriculum and program planning.

864. Evaluation of Systems Designed Programs
Spring. 3(0-0) HCP 863 or approval of school.
Content and design of evaluation plans for programs using systems approaches. Consideration of psychometric tools; basic research, evaluation and measurement techniques.

867. The Curriculum in Physical Education
Spring. 3(0-0) Approval of school.
Principles and content of physical education curricula in schools and colleges.

869. Supervision of Physical Education
Winter. 3(0-0) Approval of school.
Techniques of supervision and their application in improving the teacher-pupil learning situations. Problems met by supervisors in elementary and secondary schools with class participation in solving them.

879. Internship
Fall, Winter, Spring. Summer. 3 to 9 credits. May re enroll for a maximum of 9 credits. Must take a total of 6 to 9 credits to receive a grade in this course. Students are limited to a combined total of 15 credits in HCP 403, HCP 879, HCP 854, HCP 852. Approval of school.
Internship experience under the guidance and supervision of MSU faculty and internship consultants. Involves a variety of activities.

881. Topics in Health and Rehabilitation Counseling (MTC)
Fall, Winter, Spring. Summer. 2 to 9 credits. May re enroll for a maximum of 18 credits if different topics are taken. Graduate students.
Seminars in current topics in the fields of health psychology, counseling psychology and rehabilitation counseling.

882. Topical Seminars in Physical Education and Exercise Science (MTC)
Fall, Winter, Spring. Summer. 1 to 5 credits. May re enroll for a maximum of 15 credits if different topics are taken. Approval of school.
Seminars in the various fields of emphasis in physical education and exercise science.
883. *Topic Seminars in Health Education and Human Performance (MTC)*
Fall, Winter, Spring. 2 to 9 credits. May reenroll for a maximum of 15 credits. Different topics are taken. Approval of school. Seminars in various fields of emphasis in health education and human performance.

884. *Directed Laboratory Experience*
Fall, Winter, Spring. 2 to 5 credits. May reenroll for a maximum of 9 credits. Students are limited to a combined total of 15 credits in HCP 493, HCP 876, HCP 884 and HCP 885. Approval of school. Supervised laboratory experience for master's candidates.

885. *Directed Field Experience*
Fall, Winter, Spring. 3 to 9 credits. May reenroll for a maximum of 9 credits. Students are limited to a combined total of 15 credits in HCP 493, HCP 876, HCP 884, and HCP 885. Approval of school. Supervised field experience in schools and other institutions for master's candidates.

889. *Project in Health Education, Counseling Psychology and Human Performance*
Fall, Winter, Spring. 2 to 6 credits. May reenroll for a maximum of 6 credits. Must take a total of 6 credits to receive a grade in this course. Approval of school. Project experience under the guidance and supervision of MSU faculty.

899. *Master's Thesis Research*
Fall, Winter, Spring. 1 to 9 credits. May reenroll for a maximum of 9 credits. Must take a total of 9 credits to receive a grade in this course. HCP 864 or concurrently; approval of school.

949C. *Physiological Measurement in Counseling Psychology*
Spring. 3(2-2). HCP 450, approval of school. Physiological measurement in counseling psychology treatment, training, and research. Approved through Fall 1989.

950. *Interpersonal Process Recall*
Fall. 3(3-2). Doctoral candidates in counseling psychology or approval of instructor. A structured training model designed to teach facilitation of interpersonal communication through learning communication skills, examining interpersonal stress, and self-study of one's own video-recorded behavior. Theory and research issues will be presented. Approved through Fall 1989.

960. *Individual Study*
(HPR 950, HPE 950.) Fall, Winter, Spring. 2 to 12 credits. May reenroll for a maximum of 12 credits. Doctoral candidates; approval of school.

984. *Directed Laboratory Experience*
Fall, Winter, Spring. 2 to 15 credits. May reenroll for a maximum of 15 credits. Doctoral candidates; approval of school. Supervised laboratory experience for doctoral candidates.

985. *Directed Field Experience*
Fall, Winter, Spring. 3 to 15 credits. May reenroll for a maximum of 15 credits. Doctoral candidates; approval of school. Supervised field experience in schools and other institutions for doctoral candidates.

999. *Doctoral Dissertation Research*
Fall, Winter, Spring. Variable credit. Approval of school.

HEBREW
See Linguistics and Germanic, Slavic, Asian and African Languages.

HISTORY HST
College of Arts and Letters

Fall. 4(4-0)
Main historical dimensions of the political, economic and cultural development of Africa. Emphasis on recent period, interdependence, and cultural values.

102. *The Latin American Experience (A)*
Winter. 4(4-0)
Latin America, past and present: the Indian cultures; political systems; problems of underdevelopment; foreign domination; art, ideology and regional identity.

103. *The East Asian Experience in the Modern World (A)*
Spring. 4(4-0)
Complexities and global implications of East Asia; an interdisciplinary approach to traditional civilizations of China and Japan; their world views, values and institutions and their transformation under the Western impact.

111. *The Roots of European History (A)*
Fall, Winter, Spring. 4(4-0)
The ancient world and early medieval Europe: origins and development of civilization in the ancient Near East; Greek and Roman civilizations; the collapse of Rome; the early Middle Ages.

112. *Maturating of European Civilization (A)*
Fall, Winter, Spring. 4(4-0)
Europe from the twelfth to the eighteenth century: religion, science, statecraft, and society in their medieval synthesis, early modern expansion and renewal, and self-modernization in the Enlightenment.

113. *Europe in the Modern Age (A)*
Fall, Winter, Spring. 4(4-0)
From the French Revolution to the present: industrial and democratic revolutions; nationalism, liberalism, and socialism; the rise of mass society; imperialism, war and communism; totalitarianism; the warning of European supremacy.

121. *Union to Dissolution: America, The First Hundred Years (A)*
Fall, Winter, Spring. 4(4-0)
Inquiry into the major problems confronting the new nation and their consequences for American development, establishment of republican government, economic growth, westward expansion, reform movements, slavery, Civil War.

122. *History of the United States: The Nation State (A)*
Fall, Winter, Spring. 4(4-0)
Nature of American history since 1877. Through a combination of readings, lectures and discussions, the student derives some understanding of both facts and meaning of history, and methodology of the historian.

201. *Introduction to the Study of History*
Fall, Winter. 4(4-0). History majors or approval of department. Intensive study of a major historian's work. Familiarize students with various historical methodologies and the art of reading history. Introduction to writing essays stressing both analysis and synthesis.

231. *American Biography*
Winter of even-numbered years. 4(4-0)
Lives of interesting individuals who have helped shape the course of American history along with discussion of the nature, method, problems and impact of the biographical approach to history.

233. *The United States in World Affairs Winter. 4(4-0)*
Not open to history majors.
American foreign relations during and after World War II, recent relations with Asian countries, West Germany, the Soviet Union, and America's reaction to the Middle East question.

235. *Military History of the United States*
Fall. 3(3-0)
Evolution of United States military policy with emphasis on the causes and conduct of wars, the democratization of war, the implications of the industrial, managerial, and scientific revolutions and the quest for peace.

242. *Economic and Business History*
Fall, Winter, Spring. 3(3-0)
Survey of major changes in the American economy since the middle of the 19th century, including transportation, industry, labor, finance, and marketing. Role of private business and government in economic change.

249. *American Urban History*
Fall. 3(3-0) Interdepartmental with and administered by James Madison College. Evolution of American cities from the industrial revolution. Emphasis on process of urbanization, and on the social, economic, and political aspects of American urban history.

IDC. *Introduction to Contemporary China*
For course description, see Interdisciplinary Courses.

IDC. *Contemporary Japan*
For course description, see Interdisciplinary Courses.