

- 302: French Conversation and Composition.** 0-3-3 each. Preq., FREN 202 or permission of department head. Required for major in French.
- 304: Survey of French Literature.** 0-3-3. Preq., FREN 202 or permission of department head. Required for major in French. A survey of French literature from the Middle Ages.
- 305: Survey of French Literature.** 0-3-3. Preq., FREN 202 or permission of department head. Required for major in French. A survey of French literature from the Middle Ages.
- 308: French Civilization.** 0-3-3. Preq., FREN 202 or permission of department head. Lectures and reading in history, geography, language, arts, general culture of French lands.
- 390: Francophone Children's Literature.** 0-3-3. Preq., FREN 304 or 305 or permission of department head. A study of French-speaking children's stories, songs, rhymes and games.
- 400: The Drama in France.** 0-3-3. Preq., FREN 304 or 305 or permission of department head. A study of the drama in France up to 1914, with reading of selective works.
- 404: Contemporary French Literature.** 0-3-3. Preq., FREN 304 or 305 or permission of department head. A study of French literature from 1914 to the present with reading of selective works.
- 417: The Novel in French.** 0-3-3. Preq., FREN 304 or 305 or permission of department head. A study of the novel in France, with reading of selective works.
- 428: French Literature in English Translation.** 0-3-3 (9). Representative works of French literature from the Middle Ages to the 20th century; repeatable for credit with different course content. May not be counted towards a major or minor in French. Also listed as ENGL 428. (G)
- 450: The French Language.** 0-3-3. Preq., 21 hours French or consent of instructor. General characteristics of the language and intense review of grammar.
- 470: French Phonetics and Oral Reading.** 0-3-3. Preq., FREN 301-302 or permission of department head. Required for major in French.
- 480: Commercial French.** 0-3-3. Preq., FREN 450 or consent of instructor. Study of business practices and regulation of France and Canada with emphasis on common commercial forms.

#### GEOGRAPHY (GEOG)

- 203: Physical Geography.** 0-3-3. Fundamentals of physical and biogeography. Topics include surface and fluvial geomorphology, weather, climate, and biogeography..
- 205: Cultural Geography.** 0-3-3. Discussion of the spatial patterns of the human world; people, their culture, their livelihoods, and their imprints of the landscape.
- 210: World Regional Geography.** 0-3-3. Introduction to place and spatial relationships around the globe, with an emphasis on the developing world.
- 290: Geography of Popular Culture.** 0-3-3. Examines the patterns and processes of American popular culture. Topics include the geography of sports, music, television, movies, and popular architecture.
- 300: Historical Geography of the United States.** 0-3-3. Preq., Sophomores, Juniors, and Seniors. Study of the evolution of the cultural landscape of the United States during the historical period.
- 307: Geography of the Western United States.** 0-3-3. Field and classroom study of the physical and human geography of the western half of the United States.
- 310: Geography of Louisiana.** 0-3-3. Open only to junior, senior and graduate students. The climate, natural regions, and resources of Louisiana; cultural development, sources and distribution of the population; settlements and agriculture.
- 321: American Landscapes.** 0-3-3. Folk, vernacular, and popular landscape items are explored. Special attention is given to developing student's ability to "read" the American landscape as text.
- 380: Geographic Information Systems (GIS) and Computer Cartography.** 0-3-3. Elements of map interpretation and construction; creation, manipulation, and analysis of spatially defined data.
- 440: Economic Geography.** 0-3-3. A spatial perspective is used to examine economic principles. Topics include transportation, retail and industrial site location analysis, and the political/space economy.
- 470: Urban Geography.** 0-3-3. Patterns and processes of large North American cities are examined. Topics covered include urban politics, race, government housing policy, urban revitalization and gentrification.
- 480: Advanced Geographic Information System and Spatial Analysis.** 0-3-3. Preq., GEOG 380 or permission of instructor. Advanced techniques

in Geographic Information Systems, integrated with intermediate level spatial analysis.

- 490: Perspectives on Place and Space.** 0-3-3. Preq., GEOG 205 or 290, or permission of instructor. This course introduces advanced students in the social sciences to "new cultural geography" perspectives, critical theory, and cultural studies approaches to place and space.
- 501: Physical and Cultural Elements of Geography.** 0-3-3.

#### GEOLOGY (GEOL)

- 111: Physical Geology.** 0-3-3. Igneous, sedimentary, and metamorphic rocks; erosion of the earth by streams, oceans, winds, glaciers; phenomena of mountains, volcanoes, earthquakes; and the earth's interior.
- 112: Historical Geology.** 0-3-3. Preq., GEOL 111. History of the earth as revealed in the character and fossil content of rocks.
- 121: Physical Geology Laboratory.** 3-0-1. Preq., registration or credit in GEOL 111. Identification of minerals and rocks. Study of topographic maps and physiographic features shown thereon.
- 122: Historical Geology Laboratory.** 3-0-1. Preq., registration or credit in GEOL 112 and 121. Introduction to fossils, geologic maps, and the geologic history of selected portions of North America.
- 200: Introduction to Oceanography.** 0-3-3. A survey of the oceans; their nature, structure, origin, physical features, circulation, composition, natural resources, and relationship to the atmosphere and solid earth.
- 201: Physical and Historical Geology of the National Parks.** 0-3-3. Physical processes and earth history of the U. S. National Parks. Topics include: rock types, volcanism, plate tectonics, glaciation, shoreline processes, weathering, erosion, and cave formation.
- 209: Mineralogy.** 3-2-3. Preq., GEOL 111, 121, CHEM 102, 103. Crystallography and descriptive mineralogy. Occurrence, associations, and uses of minerals.
- 211: Petrology.** 3-2-3. Preq., GEOL 210. Introduction to the formation and classification of rocks. Identification of rock types in hand specimen and in thin section under the petrographic microscope.
- 289: Special Topics.** 1-4 hours credit. Selected topics in an identified area of geology. May be repeated for credit.
- 299: Cooperative Education Applications.** 40-0-1 (7). Preq., Admission to the College of Engineering and Science Cooperative Education Program.
- 302: Introduction to Paleocology.** 3-2-3. Preq., GEOL 112, 122. Survey of invertebrate paleontology, phylum Protozoa through phylum Arthropoda. History of the science, rules of nomenclature, and environment of lower animals.
- 303: Sedimentology** 3-2-3. Preq., GEOL 111, 112, 121. Origin, composition, properties and classification of sediments and sedimentary rocks. Fluid flow, sedimentary structures and diagenesis.
- 305: Stratigraphy.** 0-3-3. Preq., GEOL 303. Depositional environments, sedimentary facies, correlations, basin analysis and plate tectonics.
- 315: Structural Geology.** 3-2-3. Preq., GEOL 111, 112, 121, MATH 112 or 241, and ENGR 151. The recognition, representation, interpretation, and mechanics of rock deformation.
- 316: Map Interpretation.** 6-0-2. Preq., GEOL 305 and 315. Interpretation of topographic maps, aerial photographs, geologic maps and geologic cross sections.
- 318: Environmental Geology.** 0-3-3. Preq., GEOL 111 or consent of instructor. Discussion of natural and human hazards affecting the environment, including flooding, slope stability, earthquakes, coastal hazards, resource development, water pollution, and waste disposal.
- 320: Summer Field Course.** 6 hours credit. Preq., GEOL 211, 302 and 316, ENGL 303. Course work at the Louisiana Tech Geology Camp.
- 420: Directed Study of Geologic Problems.** 1-3 hrs credit. Preq., senior standing. Special topics within the student's field of interest. Maximum 3 hours credit.
- 421: Micropaleontology.** 3-2-3. Preq., GEOL 302. Study of microfossils used in correlation of well cuttings and outcrop samples, especially foraminifera.
- 422: Environmental Remediation.** 0-3-3. Evaluation of alternative surface and subsurface cleanup technologies with emphasis on site assessments, pilot studies, treatment techniques, and the preparation of corrective action plans. (G)
- 442: Geophysical Methods.** 3-2-3. Preq., PHYS 210, GEOL 305, 315, 408, MATH 241. Introduction to the elementary theory, computation fundamentals, and basic field practice for gravity, seismic, magnetic, and electrical methods of geophysical exploration.
- 450: Seminar.** 0-1-1. Preq., senior standing in geology. Written or oral reports in various phases of geology.

- 460: Hydrogeology.** 0-3-3. Preq., GEOL 111, 121, and MATH 220- or 241. Effect of geologic materials and processes on availability and movement of ground water with emphasis on collecting and interpreting hydrogeologic data.
- 485: Coastal Marine Geology.** 8-3-4. Preq., GEOL 111, 121 or 112, 122, CHEM 101, 102, 103, 104. Geomorphological features of estuarine, coastal and continental shelf environments, erosional, depositional and geochemical processes, field and laboratory methods. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.

#### GERMAN (GERM)

- 101: Elementary German.** 0-3-3 each. Conversation, reading, and grammar.
- 102: Elementary German.** 0-3-3 each. Preq., GERM 101. Conversation, reading, and grammar.
- 201: Intermediate German.** 0-3-3 each. Preq., GERM 102. Conversation reading, grammar, and culture.
- 202: Intermediate German.** 0-3-3 each. Preq., GERM 201. Conversation reading, grammar, and culture.
- 301: Survey of German Literature to 1800.** 0-3-3. Preq., GERM 202 or permission of department head.
- 302: Survey of German Literature from 1800.** 0-3-3. Preq., GERM 202 or permission of department head.
- 303: Classical German Literature.** 0-3-3. Preq., GERM 202 or permission of department head. A study of German classicism, including Lessing, Goethe, Schiller.
- 305: Advanced German Grammar.** 0-3-3. Preq., GERM 202 or permission of department head. An intensive course in German grammar with special attention to technical German.
- 307: German Conversation.** 0-3-3. Preq., GERM 202 or permission of department head.
- 308: German Composition.** 0-3-3. Preq., GERM 202 or permission of department head.
- 309: German Civilization.** 0-3-3. Preq., GERM 202 or permission of department head. Lectures and readings in history, geography, language, arts and general culture.

#### HEALTH AND PHYSICAL EDUCATION (HPE)

**Health and Physical Education 100 to 199 activity courses will stress basic techniques, rules and participation.**

- 100: Special Group Activities.** 3 3/4-0-1 (2). (Pass/Fail).
- 101: Flag Football and Basketball.** 3 3/4-0-2.
- 102: Volleyball and Softball.** 3 3/4-0-2.
- 107: Aerobic Running.** 3 3/4-0-2. (4).
- 110: Adapted Physical Education.** 3 3/4-0-2. For students not physically able to participate in regular activity courses. Statement from physician listing restrictions is required. (Pass/Fail)
- 112: Practicum.** 3 3/4-0-1 (4). HPE Fitness/Wellness majors. Students assist a master teacher to learn proper methods of teaching aerobic, weight training, senior adult activities.
- 114: Varsity Sport Participation.** 3 3/4-0-2 (6). Credit for varsity participation in a sport. May be repeated for up to 6 hours credit. Will not count for HPE majors/minors.
- 115: Varsity Sport Participation.** 3 3/4-0-2 (6). Credit for varsity participation in a sport. May be repeated for up to 6 hours credit. Will not count for HPE majors/minors.
- 116: Varsity Sport Participation.** 3 3/4-0-2 (6). Credit for varsity participation in a sport. May be repeated for up to 6 hours credit. Will not count for HPE majors/minors.
- 117: Varsity Sport Participation.** 3 3/4-0-2 (6). Credit for varsity participation in a sport. May be repeated for up to 6 hours credit. Will not count for HPE majors/minors.
- 119: Basketball and Volleyball.** 3 3/4-0-2.
- 132: Beginning Tap Dance.** 3 3/4-0-2.
- 134: Developmental Conditioning.** 3 3/4-0-2 (6). Designed to improve and maintain a desirable level of aerobic fitness by various forms of appropriate physical activity.
- 141: Beginning Golf.** 3 3/4-0-2. Learning basic golf skills and rules with limited play for beginning student with no experience.
- 143: Fencing.** 3 3/4-0-2.
- 145: Social Dance.** 3 3/4-0-2.
- 150: First Aid.** 0-2-2. Lectures, discussions, and practical demonstrations of Red Cross methods in First Aid.
- 161: Square, Folk, and Country/Western Dance.** 3 3/4-0-2.

- 181: Beginning Swimming.** 3 3/4-0-2. Open to students who are unable to swim in deep water.
- 201: Soccer and Volleyball.** 2 3/4-1-2.
- 202: Foundations of Health and Physical Education, Fitness Wellness, and Sports Science.** 0-3 3/4-3. Preq., Sophomore Standing. Designed to provide physical education students with information in the professional areas of HPE, Fitness/Wellness, and Sports Science.
- 206: Fitness for the Senior Adult.** 2 3/4-1-3. May be taken by senior adults for repeated credit. Senior adult exercise programs are designed utilizing chair and water exercises, strength machines, and walking.
- 207: Principles and Practices of Coaching Minor Sports.** 0-2-2. Preq., Sophomore standing. Study of minor sports from viewpoint of teacher and coach.
- 210: Beginning Weight Training.** 2 3/4-1-2 (4).
- 211: Powerlifting.** 2 3/4-1-2 (4).
- 213: Fishing and Boating Safety.** 2 3/4-1-2.
- 214: Hunting and Gun Safety.** 2 3/4-1-2.
- 218: Beginning Karate.** 2 3/4-1-2 (4).
- 221: Light Backpacking.** 3-1-2 (6). Equipment selection, maintenance, and use; first aid and accident prevention; and basic skills for light backpacking, plus participation in three off-campus, outdoor activity sessions.
- 222: Outdoor Adventure.** 3-1-2 (6). Equipment selection, maintenance, and use; first aid and accident prevention; and skills for selected outdoor, adventure activities, plus participation in three off-campus, outdoor activity sessions.
- 231: Beginning Modern Dance.** 2 3/4-1-2.
- 235: Beginning Racquetball.** 2 3/4-1-2.
- 241: Intermediate Golf.** 2 3/4-1-2. Review of strokes, rules, and strategies. Tournament play.
- 250: Gymnastics.** 2 3/4-1-2. HPE Majors Only.
- 251: Materials and Methods in Teaching Elementary School Physical Education.** 1-2 3/4-3. Preq., Sophomore standing, HPE majors and minors only. Methods and materials used in teaching elementary school physical education with practical application.
- 255: Lifetime Sports Series A - Racquet Sports.** 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques, rules, and strategies in racquet sports.
- 256: Lifetime Sport Series B - Aerobic Conditioning/Strength Conditioning/Aquatics.** 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques and physiological principles in aerobic, strength, and aquatic conditioning activities.
- 257: Lifetime Sport Series C - Selected Recreational Sports.** 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques, rules, and strategies used in selected recreational sports.
- 262: Beginning Bowling.** 2 3/4-1-2.
- 263: Intermediate Bowling.** 2 3/4-1-2. Preq., HPE 262.
- 265: Team Sport Series A - Flag Football/Soccer.** 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques, rules, and strategies in flag football and soccer.
- 266: Team Sport Series B - Volleyball/Basketball.** 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques, rules, and strategies in volleyball and basketball.
- 267: Team Sport Series C - Softball/Track and Field.** 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques, rules, and strategies in softball and track.
- 271: Beginning Tennis.** 2 3/4-1-2. Learning basic tennis skills, fundamentals, rules, and strategy for beginning players with limited or no experience.
- 272: Beginning Badminton.** 2 3/4-1-2.
- 274: Intermediate Tennis.** 2 3/4-1-2. Preq., HPE 271 or intermediate skill levels. Review of tennis skills, fundamentals, rules, and strategy. Conditioning and class competition.
- 275: Aerobic Dance and Conditioning.** 2-1-2 (4).
- 280: Dance Appreciation.** 0-3-3. An overview of the historical, cultural and social impact of dance. Includes classifications of major dance styles, interpretations of dance and major contributors to dance.
- 281: Intermediate Swimming.** 2 3/4-1-2. Open to students who can swim in deep water. Stroke development and endurance swimming are emphasized.
- 283: Lifeguard Training.** 1 3/4-2-3. Preq., Level V and VI Swimming Skills. American Red Cross Lifeguard Training. Prepares and certifies