570. Topics in Geophysics
Spring. 1 to 3 credits. May re-enroll for a maximum of 12 credits. Approval of department.
Topics and problems in geophysics, such as seismology, terrestrial heat flow, processing and analysis of geophysical data, geomagnetism, paleomagnetism, high-pressure geophysics.

572. Exploratory Seismology
Fall of even-numbered years. 4(2-4)
Theory and techniques of field seismic exploration methods. An associated geophysical survey will be conducted and a report prepared.

573. Seismology I
Winter of odd-numbered years. 3(3-0)
MTH 215 concurrently; PHY 289 or concurrently.
Theory and application of seismic wave propagation in earth materials.

574. Seismology II
Spring of odd-numbered years. 3(3-0)
872. MTH 215
Advanced Geophysical Exploration I
Fall of odd-numbered years. 4(3-3)
Theory and techniques of gravity and magnetic field exploration, including associated practical exercises and laboratory work.

575. Advanced Geophysical Exploration II
Winter of even-numbered years. 4(3-2)
474, MTH 214.
Methods and techniques in geophysical exploration, including electrical, electromagnetic, radiotracer, magnetoelastic, and the physical principles of well logging. Associated practical exercises and laboratory work.

576. Rock Magnetism and Paleomagnetism
Spring of even-numbered years. 3(3-0)
321, 475, one year mathematics, one year physics; or engineering or physics majors.
Geomagnetism, and application to earth science. Character and history of the Earth's magnetic field, physics of remanent magnetism, magnetic properties of minerals and rocks, paleomagnetism, experimental results and procedures.

577. Regional Petroleum Geology
Spring of odd-numbered years. 3(3-0)
Approval of department.
Regional study of tectonics, stratigraphy and sedimentation in the U.S. and their relationship to petroleum occurrences in sedimentary basins. Analysis of petroleum distribution with emphasis on creative thinking in petroleum exploration. Practice in the analysis of petroleum possibilities in selected foreign areas.

578. Advanced Sedimentology
A. RECENT DEVELOPMENTS IN SEDIMENTOLOGY
(864.) Spring. 3(2-4) May re-enroll for a maximum of 12 credits. 493, approval of department.
New techniques for study of sediments and sedimentary rocks. Discussion of significant new findings in the field of sedimentology.
B. QUANTITATIVE ANALYSIS OF SEDIMENTS
(864.) Spring. 3(2-4) May re-enroll for a maximum of 12 credits. 493, approval of department.
Representation and analysis of sediment variation from microscopic to regional scale. Definition of efficient empirical variables. Role of mathematical and stochastic models.

C. ENVIRONMENTAL SEDIMENTOLOGY
(864.) Spring. 3(2-4) May re-enroll for a maximum of 12 credits. 493, approval of department.
Determination of rates of sediment erosion, transport, and deposition. Partitioning of deposited sediment with regard to sources. Sediment as a biologic substrate.

593. Carbonate Sedimentation
Fall of odd-numbered years. 3(2-2)
Approval of department.
Genetics of carbonate sediments including carbonatese-secreting organisms, effect of environment on mineralogy, depositional environments, and the dolomite problem. Field trips.

595. Topics in Geochemistry
A. THERMODYNAMICS IN GEOLOGY
Fall. 1 to 3 credits. May re-enroll for a maximum of 4 credits. 495.
Interpretation and prediction of natural mineral assemblages from thermochromial studies. High pressure and high temperature techniques in petrology. Phase equilibria studies and diffusion phenomena in natural systems.
B. AQUEOUS GEOCHEMISTRY
Fall. 1 to 3 credits. May re-enroll for a maximum of 12 credits. 495.
Ideal and non-ideal solutions; ion activities in natural waters, carbonate sedimentation, evaporation, solubility, colloids, chemical weathering and diagenesis. Importance of organic species in natural waters and their effect in metal complexing. Redox reactions.
C. ANALYTICAL GEOCHEMISTRY
Fall. 1 to 3 credits. May re-enroll for a maximum of 13 credits. 495.
Instrumental techniques for the analysis of geological materials. Topics on application of X-ray diffraction, X-ray fluorescence, neutron activation analysis, and atomic absorption spectrometry. Recently developed techniques in geochemistry will be discussed.

589. Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

590. Special Problems
Fall, Winter, Spring. Summer. Variable credit. Approval of department.
Special problems in hydrogeology, geomorphology, and glacial geology, mineralogy and crystallography, petrology, paleontology, structural geology and petroleum geology, sedimentation, and geochemistry.

599. Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

Earth Science
407. Earth Science for Teachers
(PHS 407.) Fall. 3(3-0) or 4(3-3)
Fundamentals of climatology and its relationship to weathering in rocks; agents of erosion, transportation, and deposition; study of the common minerals; the three classes of rocks, and igneous, sedimentary and metamorphic processes; geosynclinal life; glacial erosion; glaciers, volcanoes, oceans, lakes, deserts, caves and others. Laboratory includes identification of minerals, rocks, study of topographic maps; and field trips to points of geologic interest.

410. Earth Science Seminar for Teachers
Fall. 1(2-0) May re-enroll for a maximum of 4 credits. One earth science subject matter course or concurrently.
Earth science subject matter areas will be inter-related through student presentation and discussion and their interdisciplinary significance developed.

445. Field Studies
Fall, Winter, Spring, Summer. 1 to 9 credits. May re-enroll for a maximum of 15 credits. Approval of department.
Experience and techniques in field investigation of the near surface layers of the earth.

446. Laboratory Investigations
Fall, Winter, Spring. Summer. 1 to 6 credits. May re-enroll for a maximum of 15 credits. 445 or concurrently.
Independent laboratory investigation of materials and phenomena obtained from field studies.

GERMAN AND RUSSIAN
College of Arts and Letters

303. Folklore
Spring. 3(3-0)
Folk heritage of peoples as revealed in their legends, superstitions, ballads, folk songs, heroic tales, sayings, customs, and beliefs. Historical development of traditional lore as a reflection of social attitudes and the source for national mythologies.

417. Scandinavian Contributions to Literary Tradition
Fall. 3(3-0) Approval of department. Interdepartmental with the departments of English and Romance Languages.
Development and influence of the ideas, forms and motifs of the Scandinavian literatures in the literatures of the world.

418. Scandinavian Contributions to Literary Tradition
Winter. 3(3-0) Approval of department. Interdepartmental with the departments of English and Romance Languages.
Continuation of 417.
419. Scandinavian Contributions to Literary Tradition
Spring. 3(3-0) Approval of department. Interdepartmental with the departments of English and Romance Languages. Continuation of 418.

825. Comparative Literature: Studies in Theme and Idea
Fall. 3(3-0) May re-enroll for a maximum of 9 credits. Interdepartmental with the departments of Romance Languages and English and administered by the Romance Languages Department. Relations between literature and the sciences and other arts; social, historical, psychological, philosophical bases of literary study.

987. Seminar: Special Topics in Comparative Literature
Spring. 3(3-0) May re-enroll for a maximum of 9 credits. Interdepartmental with the departments of Romance Languages and English and administered by the Romance Languages Department.

German

101. Elementary German
Fall, Winter, Spring, Summer. 5(3-0) German language, civilization, and culture. Development of language skills in contemporary German. Independent practice in the language laboratory.

102. Elementary German
Fall, Winter, Spring, Summer. 5(3-0) Continuation of 101.

103. Elementary German
Fall, Winter, Spring, Summer. 5(3-0) Continuation of 102.

201. Intermediate German
Fall, Winter, Spring. 4(3-1) Systematic review of grammar, oral practice, intensive and extensive reading of modern texts. This course or equivalent is required of majors and those planning to take advanced work in German.

202. Intermediate German
Fall, Winter, Spring, Summer. 4(3-1) Continuation of 201.

203. Intermediate German
Fall, Winter, Spring, Summer. 4(3-1) Continuation of 202.

241. German Literature in English Translation
Fall. 3(3-0) Knowledge of German not required. Not applicable to major requirements. Selections from narrative prose, drama, and lyric poetry chosen to encourage and develop an appreciation of German literature.

242. German Literature in English Translation
Spring. 3(3-0) Knowledge of German not required. Not applicable to major requirements. Continuation of 241.

321. German Composition and Conversation
Fall. 3(3-0) 421. Continuation of 321.

322. German Composition and Conversation
Fall. 3(3-0) 321. Continuation of 322.

323. German Composition and Conversation
Spring. 3(3-0) 322. Continuation of 322.

325. German Civilization and Culture
Fall. 3(3-0) 203 or approval of department. A third year sequence for students not primarily interested in literature. The cultural heritage of the German peoples. Readings and discussions in German based upon selected texts from 1818-1945.

327. German Civilization and Culture
Spring. 3(3-0) 203 or approval of department. A third year sequence for students not primarily interested in literature. The cultural heritage of the German peoples. Readings and discussions in German based upon selected non-literary texts since World War II.

400H. Honors Work
Fall, Winter, Spring. Variable credit. Approval of department.

405. Schiller
Fall. 3(3-0) 303 or approval of department. Principal works of Schiller.

406. Goethe
Winter. 3(3-0) 303 or approval of department. Principal works of Goethe.

407. Goethe: Faust
Spring. 3(3-0) 303 or approval of department. Goethe: Faust I and II.

410. German Reading Skills
Fall, Winter, Spring, Summer. 5(5-0) 101 or graduate students or approval of department. Designed for those in scientific or other fields who wish to be able to read scholarly material. An intensive presentation of German grammar with emphasis on those features and techniques necessary for reading and translation.

411. German Reading Skills
Fall, Winter, Spring, Summer. 5(5-0) 103 or 410 and 411 with 3.0 or better will satisfy the Ph.D. reading requirement in most departments.

421. Advanced German Composition and Conversation
Fall. 3(3-0) 325. Continuation of 325.

422. Advanced German Composition and Conversation
Fall. 3(3-0) 421 or approval of department. Continuation of 421.

423. Advanced German Composition and Conversation
Spring. 3(3-0) 422 or approval of department. Continuation of 422.
427. The Contemporary German Scene
Spring. 3(3-0) 303 or approval of department.
The literary, artistic, intellectual, social, religious, economic, and political scene in present-day Germany with a study of its development from the recent past.

432. Mythology and Folklore
(833.) Fall of even-numbered years.
Mythology and folkloristic elements in Germanic epics and sagas.

434. Contrastive Structures of English and German
Fall. 3(3-0)
Linguistic analysis of the structures of English and German. Recommended for those intending to teach German.

435. History of the German Language
Winter. 3(3-0) 434 or LIN 401.
Survey of the development of Modern Standard German and its relationship to other Indo-European and Germanic languages.

438. German Poetry
(838.) Spring of even-numbered years.
Development of representative German lyric poetry based upon its intrinsic characteristics.

441. Studies in German Literature Before 1700
Fall of odd-numbered years. 3(3-0) 303 or approval of department.

442. Pre-Classicism and Sturm und Drang
Winter of even-numbered years. 3(3-0) 303 or approval of department.
Continuation of 441.

444. Nineteenth Century Prose
Fall of even-numbered years. 3(3-0) 303 or approval of department.

445. Nineteenth Century Drama
Winter of odd-numbered years. 3(3-0) 303 or approval of department.
Continuation of 444.

446. Modern German Literature
Spring of odd-numbered years. 3(3-0) 303 or approval of department.
Representative works by major German authors from 1900 to the present.

499. Special Projects
(G R 498.) Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 16 credits. Approval of department, Work in area outside regular course offerings.

801. Introduction to Graduate Study
Fall of odd-numbered years. 3(3-0)
A seminar on the terminology and methods of literary criticism, and the bibliographical aids for literary and pedagogical research.

803. History of Literary Criticism
Fall of even-numbered years. 3(3-0)
Important critical theorists from Aristotle to the present and their impact on German literature.

806. Teaching of the German Language
Fall, Winter, Spring. 1(1-0) May re-enroll for a maximum of 3 credits. Graduate teaching assistant.
Problems of teaching German languages at the elementary and intermediate levels including such matters as textbook selection, teaching techniques and the preparation of examinations.

815. Middle High German Language
Fall of even-numbered years. 3(3-0)
Readings from the German language between 1050 and 1350, with emphasis upon the epic and lyric of the Classical period.

818. Old High German Language and Literature
Spring of even-numbered years. 3(3-0) 815 or approval of department.
German language from the beginnings to about 1050; reading and analysis of sections from Tassilo, Isidore, Notker, Otfrid, Hildebrandshiel, and other documents.

819. From Mysticism to Baroque
Winter of odd-numbered years. 3(3-0)
Readings in Middle High German from the Court poets to Wernher der Gartner.

820. Baroque Literature
Spring of odd-numbered years. 3(3-0)
Author and masterpiece of seventeenth-century German literature.

824. Eighteenth Century Literature
Fall of even-numbered years. 3(3-0)
Continuation of 822.

826. German Classicism
Winter of odd-numbered years. 3(3-0)
Major works of Schiller and Goethe.

827. Goethe's Intellectual Development
Spring of odd-numbered years. 3(3-0)
An examination of Goethe's thought in relation to his major works.

830. Romanticism
Spring of odd-numbered years. 3(3-0)
Representative works and writers of the period.

834. Nineteenth Century Literature
Fall of odd-numbered years. 3(3-0)
Representative literature masterpieces from Romanticism to Naturalism.

836. Twentieth Century Literature
Winter of even-numbered years. 3(3-0)
Representative works of drama, prose and lyric poetry from Naturalism to World War II.

837. Contemporary Literature
Spring of even-numbered years. 3(3-0)
Selections from German literature since 1945.

841. Old Norse
Spring of odd-numbered years. 3(3-0) 840. Approval of department.
Readings from Old Norse poetry and prose.

842. Gothic
Winter of odd-numbered years, Summer. 3(3-0) 841. Approval of department.
Gothic in relation to other Indo-European and Germanic languages, reading and analysis of the fourth century Gothic Bible.

843. Old Saxon
Winter of even-numbered years, Summer. 3(3-0) 815. Reading and analysis of the ninth century Old German Heliand and Genesis.

860. Graduate Reading Course
Fall, Winter, Spring, Summer. 1 to 5 credits. May re-enroll for a maximum of 15 credits. Approval of department.
Supervised reading course for investigation of special fields.

899. Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

999. Research
Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 36 credits.

Russian

101. Elementary Russian
Fall, Winter, Spring, Summer. 5(5-0)
Fundamentals of grammar, syntax, and pronunciation with graded readings.

102. Elementary Russian
Fall, Winter, Spring, Summer. 5(5-0)
Continuation of 101.

103. Elementary Russian
Fall, Winter, Spring, Summer. 5(5-0)
Continuation of 102.

201. Intermediate Russian
Fall, Winter, Spring. 4(3-1) 103.
Systematic review of grammar, oral practice, intensive and extensive reading of modern texts. This course or equivalent is required of majors and those planning to take advanced work in Russian.

202. Intermediate Russian
Fall, Winter, Spring. 4(3-1) 201.
Continuation of 201.

203. Intermediate Russian
Fall, Winter, Spring. 4(3-1) 202.
Continuation of 202.

241. Russian Literature in Translation, 1800-1865
Fall. 3(3-0) Knowledge of Russian not required.
Pushkin, Lermontov, Gogol', Goncharov, Turgenev, the early Dostoevsky and other representative writers of the period.

242. Russian Literature in Translation, 1865-1917
Winter. 3(3-0) Knowledge of Russian not required.
Dostoevsky, Tolstoy, Leskov, Chekhov, Gorky, Solzhenitsyn, and other representative writers of the period.

243. Russian Literature in Translation since 1917
Spring. 3(3-0) Knowledge of Russian not required.
Zamyatin, Olesha, Zoshchenko, Ily and Petrov, Mayakovsky Sholokhov, Pasternak, Solzhenitsyn and other representative writers of the period.
299. Special Projects
(RR 499) Fall, Winter, Spring, Summer. 1 to 12 credits. May re-enroll for a maximum of 12 credits. Approval of department.

Work in areas outside regular course offerings.

301. Introduction to Russian Literature
Fall. 3(3-0) 503 or approval of department.
Selections from Russian authors, with concentration on the nineteenth century. Familiarization with essential Russian literary terminology.

302. Introduction to Russian Literature
Winter. 3(3-0) 301.
Continuation of 301.

303. Introduction to Russian Literature
Spring. 3(3-0) 302.
Continuation of 302.

321. Advanced Composition and Conversations
Fall. 3(3-0) 203.
Review of finer points of grammar. Oral reports, tape recordings, intensive class discussion. Written exercises, translations into Russian, compositions.

322. Advanced Composition and Conversations
Winter. 3(3-0) 321.
Continuation of 321.

323. Advanced Composition and Conversations
Spring. 3(3-0) 322.
Continuation of 322.

325. Russian Civilization and Culture
Fall. 3(3-0) 203.
Cultural heritage of the Russian people. Readings on history, geography, the arts, religion, ideologies.

326. Russian Civilization and Culture
Winter. 3(3-0) 203.
Continuation of 325.

327. Russian Civilization and Culture
Spring. 3(3-0) 203.
Continuation of 326.

400H. Honors Work
Fall, Winter, Spring. Variable credits. Approval of department.

401. Russian Literature Before 1917
Fall of odd-numbered years. 3(3-0)
Selected works of Russian literature from the beginning to the end of the nineteenth century.

402. Russian Literature Before 1917
Winter of even-numbered years. 3(3-0)
Continuation of 401.

403. Russian Literature Before 1917
Spring of even-numbered years. 3(3-0)
Continuation of 402.

410. Russian Reading Skills
Fall, Winter, Spring. 5(5-0)
101 or graduate students or approval of department.

Designed for those in scientific or other fields who wish to be able to read scholarly material. An intensive presentation of Russian grammar with emphasis on those features and techniques necessary for reading and translation.

411. Russian Reading Skills
Fall, Winter, Spring, Summer. 5(5-0)
103 or 410 and approval of department.

Reading and translation of works in the student's field of interest. Completion of 410 and 411 with 3.0 or better will satisfy the Ph.D. reading requirement in most departments.

425. Contemporary Russian Literary Language
Fall. 3(3-0) 322.
Description and analysis of contemporary Russian literary language, its phonology, morphology and syntax. Designed especially for future teachers of Russian.

426. Contemporary Russian Literary Language
Winter. 3(3-0) 425 or approval of department.
Continuation of 425.

427. Contemporary Russian Literary Language
Spring. 3(3-0) 426 or approval of department.
Continuation of 426.

431. Russian Literature Since 1917
Fall of even-numbered years. 3(3-0)
303 or 326.

Literary schools and authors in Russia after 1917. Readings in the works of Gorky, Maya-kovsky, Alexei Tolstoy, Sholokhov, Pasternak and others.

432. Russian Literature Since 1917
Winter of odd-numbered years. 3(3-0)
303 or 326.
Continuation of 431.

433. Russian Literature Since 1917
Spring. 3(3-0) 303 or 336.
Continuation of 432.

434. Introduction to Non-Russian Slavic Languages
Spring of even-numbered years. 3(3-0)
Continuation of 432.

499. Special Projects
(RR 499) Fall, Winter, Spring, Summer. Variable credits. May re-enroll for a maximum of 18 credits. Approval of department.

Work in areas outside regular course offerings.

500. Teaching Methods of Russian in College
Fall, Winter, Spring. 0 to 3 credits.
Graduate teaching assistant.

Supervised teaching of college classes in Russian.

501. Slavic Bibliography and Research Methods
Fall of odd-numbered years. 3(3-0)
Bibliographies of Slavic literature and languages. The library and the utilization of its resources. Principles of bibliographic compilation and research techniques in Russian Literature and linguistics.

515. Russian Literature Before 1800
Fall of even-numbered years. 3(3-0)
Origin and development of Russian literature up to 1800. Emphasis on major works and authors of the period.

517. Nineteenth Century Russian Prose I
Fall of odd-numbered years. 3(3-0)
Puskin and Chekhov's search for a modern literary expression.

518. Nineteenth Century Russian Prose II
Winter of even-numbered years. 3(3-0)
Gogol and Turgenev: a study of contrasting techniques and temperaments.

519. Nineteenth Century Russian Prose III
Spring of even-numbered years. 3(3-0)
Tolstoy and Dostoevsky: two canons of aesthetics and ethics developed through the genre of the novel.

525. Historical phonology and morphology of Old Church Slavonic compared to that of Russian. The relation of both languages to Proto-Slavic and Proto-Indo-European. Readings of selected Old Church Slavie and Old Russian texts.

530. Development of Old Church Slavic and Russian
Winter of odd-numbered years. 3(3-0)

589. A survey of the principal modern Slavic languages in historical perspective. The development of their phonological and grammatical features from Proto-Slavic and in relation to Old Church Slavic.

532. Russian Drama Before 1859
Winter of odd-numbered years. 3(3-0)
Origin and development of Russian drama. Analysis of major plays by Chekhov, Gogol, Pushkin. Lermontov and Tolstoy.

533. Russian Drama, 1859-1917
Spring of odd-numbered years. 3(3-0)
Analysis of major plays by Ostrovsky, Turgenev, Tolstoy, Chekhov, and Gorky.

535. Russian Poetics
Summer of odd-numbered years. 3(3-0)
The development of literary genres, prosody, and versification.

536. Nineteenth Century Russian Poetry
Winter of even-numbered years. 3(3-0)
355 or approval of department.

Trends and styles in 19th century Russian poetry up to 1890. Emphasis on major poetry by Zhukovsky, Batysudukov, Pushkin. Baratynsky, Yazykov, Tyutchev, Lermontov, Tolstoy, Potemkin, and Solovyov.

537. Twentieth Century Russian Poetry
Spring of even-numbered years. 3(3-0)
356 or approval of department.

Theory and practice of the Symbolists, Aesthetics, Futurists and the Social Realists.

550. Russian Literary Criticism
Winter of odd-numbered years. 3(3-0)
Academicism, Transcendentalism and Socialist Realism.

551. Russian Literary Criticism
Winter of odd-numbered years. 3(3-0)
Academicism, Transcendentalism and Socialist Realism.

A-83
HEALTH, PHYSICAL EDUCATION AND RECREATION

College of Education

Institutional Courses

The program in physical education is designed to offer the student an opportunity to test and evaluate himself physically and, during his first term at the University, to guide his choice toward activities in which he may achieve some measure of success, add to his physical well-being and develop a reasonable amount of skill which may promote participation in healthful activities throughout his entire life. Classes are offered in the areas of body dynamics; aquatic; individual, dual, and team sports; dance; and gymnastics.

106. Individual Sports
Fall, Winter, Spring, 1(0-3)
Provides opportunities for the student to become adept in one or more activities with high carry-over value, and acquire skills which will be a source of healthful and recreational exercise.

107. Dual Sports
Fall, Winter, Spring, 1(0-3)
Includes such activities as tennis, badminton and handball. These activities teach balance, poise, agility, and develop and maintain endurance. Usually more vigorous than individual sports, these activities are of special value to those whose present and future work is sedentary.

108. Team Sports
Fall, Winter, Spring, 1(0-3)
This area emphasizes the continued development and improvement in self discipline and cooperation.

109. Aquatics
Fall, Winter, Spring, Summer, 1(0-3)
Instruction in aquatics provides for survival, protection and safety, not only of the student, but also of others.

110. Gymnastics
Fall, Winter, Spring, 1(0-3)
Contributes to the development of symmetrical, organically sound bodies. Poise, grace, flexibility and a better understanding of the healthful benefits of regular exercise are emphasized. The many specifics in this area include tumbling, apparatus, and Swedish gymnastics.

111. Dance
Fall, Winter, Spring, 1(0-3)
Beginning and intermediate folk, social and square dance techniques.

Professional Courses

Health Education—103, 316, 328, 331, 405, 407, 502, 810, 850, 889, 909, 985.


Recreation Education—201, 300, 303, 370, 490, 491, 492, 403, 404, 415, 422, 445, 471, 503, 580, 889, 990.

103. Personal Health
Fall, Winter, Spring, 3(0-3)
Development of understandings, attitudes and practices that are necessary for more healthful living. Provides background for teaching health to children.

121. Professional Perspectives
Fall, Winter. 1(0-3)
Introduction to Physical Education including: interpretation of curriculum, major and minor; explanation of aims and objectives; professionalism; problems peculiar to the field; and discussion of job opportunities.

122. Movement Perspectives
Winter, Spring. 1(2-0) 121 or concurrently.
Introduction to human movement or physical activity, kinesiological principles, analysis of fundamentals of conditioning, balance, work patterns, locomotor patterns, motor learning, throwing, spinning and twisting, and swimming.

201. Social Recreation and Game Leadership
Spring. 2(2-3) Sophomores.
Methods, materials, and practice in conducting party programs, indoor games, and celebrations for large and small groups. Games using special equipment commonly employed in resorts and community centers.

211. Dance
Fall, Winter, Spring. 2(0-6) Approval of department for Level II and higher.
Graduation levels of ballet, modern, and jazz dance.

224. Swimming
Winter. 2(1-3) 109; approval of department.
Advanced techniques, planning competitive events, conditioning, training, and coaching. The care and maintenance of swimming pool operations.

226A. Physical Education in the Elementary School
Fall. 3(2-5) Sophomores.
Curriculum, skills, games, and rhythms.

226C. Rhythmic Form and Analysis
Fall. 2(1-3)
Fundamental rhythms and application to movement and accompaniment. Rhythmic studies and rhythmic approach to composition.

240. Measurement in Physical Education
Fall, Winter. 3(2-3) PSL 240.
The basis of measurement techniques for use in school physical education programs.

250. Mechanical Analysis of Physical Activity
Winter, Spring. 3(2-3) Concurrently with 251; ANT 316.
Techniques of analysis of human movement based upon mechanical principles.

251. Structural Analysis of Physical Activity
Winter, Spring. 3(2-3) Concurrently with 250; ANT 316.
Techniques of analysis of human movement based on body structure and muscular action.