

# Transfer Module Courses

The Transfer Module consists of 54 credit hours of introductory courses in English Composition, Mathematics, Arts/Humanities, Social and Behavioral Sciences and Natural and Physical Sciences. Students should follow the directions below in selecting courses for the Transfer Module.

To assure the most efficient transfer of academic credit, students should consult with an academic adviser to select the courses most appropriate for General Education and/or possible major requirements.

## (32) COLLEGE OF APPLIED SCIENCE

### Economics

**T 32ECON286. Survey of Economics.** 3 ug.cr. Study of the production, distribution, and consumption of goods and services. Relations between the economy, society and government. BoK:SS.

**T 32ECON386. Economic Analysis.** 3 ug.cr. Asset valuation, depreciation and depletion, investment and operating costs, taxes, inflation, production economics, break-even analysis, value analysis, economic service life. Relations between economy and society. Prereq.: 32ECON286. BoK:SS.

### Mathematics

**T 32MATH179. Algebra and Trigonometry II.** 3-4 ug.cr. Trigonometric identities, solving trig equations, complex numbers, the fundamentals theorem of algebra, oblique triangles, vectors, systems of equations and inequalities, matrices and determinants, sequences, series, binomial expansion. Prereq.: 32MATH178.

**T 32MATH244. Calculus I.** 4 ug.cr. Limits, continuity, the derivative. Optimization methods, related rates, curve sketching, the indefinite and definite integral, numerical integration. Applications. Prereq.: 32MATH179. BoK:QR.

**T 32MATH245. Calculus II.** 4 ug.cr. Applications of integration. Differentiation and integration of exponential, logarithmic, and trigonometric functions, techniques of integration. Prereq.: 32MATH244. BoK:QR.

### Physics

**T 32PHYS101. Physics for Technology I.** 3 ug.cr. Vectors, kinematics, statics, Newton's laws, gravity, work, energy, momentum, collisions. Prereq.: 32MATH178. BoK:QR.

**T 32PHYS102. Physics for Technology II.** 3 ug.cr. Rotation, elasticity, vibration, waves, fluids, heat and thermodynamics. Prereq.: 32PHYS101, 32PHYS111. BoK:QR.

**T 32PHYS103. Physics for Technology III.** 3-4 ug.cr. Electricity and magnetism, optics. Prereq.: 32PHYS102, 32PHYS112. BoK:QR.

**T 32PHYS111. Physics for Technology I Lab.** 1 ug.cr. Laboratory instructions to Physics for Technology I (32PHYS101) Coreq.: 32PHYS101.

**T 32PHYS112. Physics for Technology II Lab.** 1 ug.cr. Laboratory course to accompany 32PHYS102. Coreq.: 32PHYS102.

**T 32PHYS113. Physics for Technology III.** 1 ug.cr. Laboratory course to accompany 32PHYS103. Coreq.: 32PHYS103.

### Psychology

**T 32PSYC171. General Psychology.** 3 ug.cr. An introduction to psychology. Topics include learning, motivation, perception, and personality. Practical application of principles of psychology supplement text. BoK:SS.

## (15) MCMICKEN COLLEGE OF ARTS AND SCIENCES

### African American Studies

**T 15AFAM171. Introduction to the Black Experience.** 3 ug.cr. A survey and examination of the perceptions, images, realities of, and myths about African-American life and culture. BoK:SS,DC.

**T 15AFAM234. Sociology of the Black Community.** 3 ug.cr. Introduction to issues affecting African-American communities including institutional discrimination and contrasting views of Black culture. BoK:SS.

**T 15AFAM235. Sociology of the Black Community.** 3 ug.cr. Survey of Black cultural institutions including family, religion, music, and dance. BoK:SS.

**T 15AFAM236. Sociology of the Black Community.** 3 ug.cr. Survey of race, poverty, and the urban underclass. Special attention to Cincinnati Black communities. BoK:SS.

**T 15AFAM245. African-American Drama.** 3 ug.cr. Survey of Black drama and the role of Blacks in the theater from post-Civil War through the Depression years. BoK:FA,LT.

**T 15AFAM246. African-American Drama.** 3 ug.cr. Survey of Black drama and the role of Blacks in theater and film from the late 1930s up to the present. BoK:FA,LT.

### Anthropology

**T 15ANTH101. Cultural Anthropology.** 3 ug.cr. An introduction to the study of culture and its aspects, emphasizing the evolution of cultural systems. Sequence fulfills 9 hrs. Social and Behavioral Science requirement. BoK:SS,DC.

**T 15ANTH102. Cultural Anthropology.** 3 ug.cr. An introduction to the study of culture and its aspects, emphasizing the evolution of cultural systems. The second offering in a three-part course sequence. Prereq.: 15ANTH101. BoK:SS,DC.

**T 15ANTH103. Cultural Anthropology.** 3 ug.cr. An introduction to the study of culture and its aspects, emphasizing the evolution of cultural systems. The third offering in a three-part course sequence. BoK:SS,DC.

**T 15ANTH276. World Prehistory.** 3 ug.cr. Survey of selected prehistoric cultural sequences in the Old World until the time of the Romans and in the New World before European contact. BoK:HP,SS.

### Biology

**T 15BIOL101. Biology.** 3 ug.cr. The sequences Biology 101, 102,103 taken concurrently with Biol. 111, 112, 113, fulfills the natural Science requirement in Arts and Sciences as well as the beginning course required of major and preprofessional students. Topics covered in Biol. 101 include: geologic time scale; origin of life; atoms and molecules; cell structure, biochemistry, physiology and division; plant tissues and origins; plant nutrition; nitrogen cycle. Prereq.: 15BIOL111. BoK:NS.

**T 15BIOL102. Biology.** 3 ug.cr. Continuation of a sequence designed for biology majors and preprofessional students. Topics covered include: nuclear and cell division, Mendelian and molecular genetics, the gene, DNA, population biology, and plant diversity. Prereq.: 15BIOL102; Coreq.: 15BIOL113. BoK:NS.

**T 15BIOL103. Biology.** 3 ug.cr. Continuation of sequence designed for Biology majors and preprofessional students. Topics covered include: animal diversity; animal development; nerves; muscle; circulation; respiration; homeostasis; ecology. Prereq.: 15BIOL102; Coreq.: 15BIOL113. BoK:NS.

**T 15BIOL104. Life on Earth: Evolution, Diversity, and Ecology.** 3 ug.cr. This quarter covers organismal biology. Including, the evolution of life on earth, the classification of contemporary life, and the fundamentals of ecology. For non-science majors. BoK:NS.

**T 15BIOL105. How Life Reproduces: Genetics.** 3 ug.cr. This quarter will cover the basic principles of genetics including how genetic information is stored, reproduced, inherited, expressed and mutated. The relevance of these basic genetic principles to current social issues such as human genetic diseases, genetic cloning, biotechnology, drug development and cancer will be discussed. For non-science majors. BoK:NS.

**T 15BIOL106. How Life Works: From Cells to Organisms.** 3 ug.cr. This quarter will focus on cell structure from bacteria through multicellular/organisms, how they function and produce or use energy. We will discuss organization of complex organisms, and how these organisms interact with their environment. For non-science majors. BoK:NS.

**T 15BIOL460. Botany.** 4 ug.cr. Introductory botany. A survey of the major concepts in the plant sciences. Molecular, cellular, anatomical, morphological, individual- level, taxonomical, populational, and evolutionary topics will be examined. The major ways in which plants and humans interact will also be reviewed. Prereq.: 15BIOL102, 15BIOL112 or perm. of instr. BoK:NS.

### Chemistry

**T 15CHEM101. First-Year Chemistry.** 4 ug.cr. A first college course for science and engineering students. 3 lectures and 1 recitation per week. Prereq.: High school chemistry or 15CHEM104. Coreq.: 15CHEM111,12,13 if add'l work in chem BoK:NS,QR.

**T 15CHEM102. First-Year Chemistry.** 4 ug.cr. A first college course for science and engineering students. 3 lectures and 1 recitation per week. A second offering in a three-part course sequence. Prereq.: 15CHEM101. BoK:NS,QR.

**T 15CHEM103. First-Year Chemistry.** 4 ug.cr. A first college course for science and engineering students. 3 lectures and 1 recitation per week. The third offering in a three-part course sequence. Prereq.: 15CHEM102. BoK:NS,QR.

**T 15CHEM104. General Chemistry I.** 3 ug.cr. A general overview of the science of chemistry for non-majors and students lacking a high school chemistry course. Two lectures and one recitation a week. BoK:NS.

**T 15CHEM105. General Chemistry II.** 3 ug.cr. A general overview of the science of chemistry for nonmajors and students lacking a high school chemistry course. Two lectures and one recitation a week. The second offering in a three-part sequence course. Coreq.: 15CHEM114,15,16 if any chemistry courses other than Gen. Chem. are planned. Prereq.: 15CHEM104. BoK:NS.

**T 15CHEM106. General Chemistry III.** 3 ug.cr. A general overview of the science of chemistry for nonmajors and students lacking a high school chemistry course. Two lectures and one recitation a week. The third offering of a three-part sequence course. Prereq.: 15CHEM105. Coreq.: 15CHEM114,15,16 if any chemistry courses other than Gen. Chem. are planned.. BoK:NS.

**T 15CHEM111. First-Year Chemistry Laboratory.** 1 ug.cr. Experimental work including qualitative analysis, supplementary to Chem. 101,2,3. One laboratory period per week. Prereq.: 15CHEM101.

**T 15CHEM112. First-Year Chemistry Laboratory.** 1 ug.cr. Experimental work including qualitative analysis, supplementary to Chem. 101,2,3. One Laboratory period per week. The second offering of a three- part course sequence. Prereq.: 15CHEM111. Coreq.: 15CHEM101,2,3.

**T 15CHEM113. First-Year Chemistry Laboratory.** 1 ug.cr. Experimental work including qualitative analysis, supplementary to Chem. 101,2,3. One laboratory period per week. The third offering of a three- part course sequence. Prereq.: 15CHEM112. Coreq.: 15CHEM101,2,3.

**T 15CHEM114. General Chemistry Laboratory I.** 1 ug.cr. Experimental work supplementary to Chem. 104-5-6. One laboratory period per week. (Requirement of many programs.) Prereq.: 15CHEM104.

**T 15CHEM115. General Chemistry Laboratory II.** 1 ug.cr. Experimental work supplementary to Chem. 104,5,6. One laboratory period per week. (Requirement of many programs) The second offering of a three- part course sequence. Prereq.: 15CHEM114 Prereq.: 15CHEM114.

T=Approved Transfer Module course.

BoK (Breadth of Knowledge) Coding

H=University Honors course.

DC: Diversity & Culture. EC: English composition. FA: Fine Arts. HP: Historical Perspectives. HU: Humanities. LT: Literature. NS: Natural Sciences. QR: Quantitative Reasoning.

SE: Social & Ethical Issues. SS: Social Sciences. Those classes which can be repeated as a BoK requirement are marked with an "r;" those which only partially fulfill a requirement are marked with a "p."

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**T 15CHEM116. General Chemistry Laboratory III.** 1 ug.cr. Experimental work supplementary to Chem. 104.5,6. One laboratory period per week. (Requirement of many programs.) The third offering of a three-part course sequence. Prereq.: 15CHEM115.

### Classics

**T 15CLAS110. Introduction to Classical Civilization.** 3 ug.cr. The cultures of Greece and Rome, interpreted through their history, literature and art forms. BoK:HU.

**T 15CLAS111. Introduction to Classical Civilization II.** 3 ug.cr. The cultures of Greece and Rome, interpreted through their history, literature and art forms. The second offering in a three-part course sequence. BoK:HU.

**T 15CLAS112. Introduction to Classical Civilization III.** 3 ug.cr. The cultures of Greece and Rome, interpreted through their history, literature and art forms. The third offering in a three-part course sequence. BoK:HU.

**T 15CLAS221. The Art and Archaeology of the Ancient World.** 3 ug.cr. Egypt, Mesopotamia, Greece and Rome. BoK:HP.

**T 15CLAS222. The Art and Archaeology of the Ancient World.** 3 ug.cr. Egypt, Mesopotamia, Greece and Rome. The second offering in a three-part course sequence. BoK:HP.

**T 15CLAS223. The Art and Archaeology of the Ancient World.** 3 ug.cr. Egypt, Mesopotamia, Greece and Rome. The third offering in a three-part course sequence. BoK:HP.

### Computer Science

**T 15CS112. Introduction to Computers and Programming II.** 3 ug.cr. An introduction to spreadsheets and databases for non-computer science majors. Design and development of effective spreadsheets. Discussion of proper usage of functions, macro programming and report generation. Introduction to interactive commands of a database system. Prereq.: 15CS111 plus high school algebra.

**T 15CS113. Introduction to Computers and Programming III.** 3 ug.cr. An introduction to general programming concepts for non-computer science majors. Discussion of top down problem solving techniques. Introduction to programming in a database environment. Design and manipulation of tables, proper usage of functions and report generation. Prereq.: 15CS112.

**T 15CS225. Computer Science I.** 4 ug.cr. Computer Science I Prereq.: 1 yr High school prgmmng.

**T 15CS226. Computer Science II.** 3 ug.cr. Continuation of 15CS225. Prereq.: 15CS225.

### Economics

**T 15ECON101. Introduction to Economics.** 3 ug.cr. Economic principles basic to behavior of individuals, firms, markets; pricing for resource allocation and decision making. Offered each quarter. BoK:SS.

**T 15ECON102. Introduction to Economics.** 3 ug.cr. Economic analysis of national income, money and banking, fiscal and monetary policy. Economics in a political decision making context. Offered each quarter. BoK:SS.

**T 15ECON103. Introduction to Economics.** 3 ug.cr. Economic issues in a political environment; international trade, labor, income distribution, welfare, growth, alternative economic systems. Prereq.: Econ. 101-2. BoK:SS,SE.

### English

**T 15ENGL207. American Writers.** 3 ug.cr. Selected works in American literature from the colonial period to 1865. BoK:LT.

**T 15ENGL208. American Writers.** 3 ug.cr. Selected works in American literature from 1865 to 1915. BoK:LT.

**T 15ENGL209. American Writers.** 3 ug.cr. Selected works in American literature from 1865 to 1915. BoK:LT.

**T 15ENGL221. World Literature.** 3 ug.cr. A comparative study of ancient and modern classics of the western world as well as Third World literature. Each term will focus on a particular literary genre: tragedy, comedy, epic, and romance. BoK:LT.

**T 15ENGL222. World Literature.** 3 ug.cr. A comparative study of ancient and modern classics of the western world as well as Third World literature. Each term will focus on a particular literary genre: tragedy, comedy, epic and romance. The second offering in a three-part course sequence. BoK:LT.

**T 15ENGL223. World Literature.** 3 ug.cr. A comparative study of ancient and modern classics of the western world as well as Third World literature. Each term will focus on a particular literary genre: tragedy, comedy, epic, and romance. The third offering in a three-part course sequence. BoK:LT.

**T 15ENGL231. Major British Writers.** 3 ug.cr. Selected works in British literature from *Beowulf* to 1600. BoK:LT.

**T 15ENGL232. Major British Writers.** 3 ug.cr. Selected works in British literature from 1600 to 1800. BoK:LT.

**T 15ENGL233. Major British Writers.** 3 ug.cr. Selected works in British literature from 1800 to the present. BoK:LT.

**T 15ENGL234. Contemporary World Literature: Drama.** 3 ug.cr. Problems of identity, illusion and reality. Naturalism, existential drama. Theater of the Absurd, and new theater movements. Offered alt. yrs. Prereq.: 15ENGL103. BoK:LT.

**T 15ENGL235. Contemporary World Literature: The Novel.** 3 ug.cr. Major international writers' reappraisal of the human predicament; alienation and social values; new dimensions in use of time; psychology and language. Prereq.: 15ENGL103. BoK:LT.

**T 15ENGL236. Contemporary World Literature: The Short Story.** 3 ug.cr. European and Asian short masterpieces expressing the anxieties and hopes of modern man; exploration of new literary techniques. Offered alt. yrs. Prereq.: 15ENGL103. BoK:LT.

**T 15ENGL240. Literature of the New Testament.** 3 ug.cr. The interpretation of Jesus and his message by his followers in light of the social, political, economic, and religious forces of the times. BoK:LT.

**T 15ENGL241. Literature of the New Testament.** 3 ug.cr. See 15ENGL240. BoK:LT.

**T 15ENGL251. Outrageous Writings by Women.** 3 ug.cr. Women writers are attracted to certain literary forms scorned by conventional academic critics — Brown, *Rubyfruit Jungle*; Wittig, *Les Guerillères*; Didion, *Play It As It Lays*; LeGuin, *The Dispossessed*; poetry by Judy Grahn; journals by May Sarton, Anais Nin. Offered alt. yrs. Prereq.: 15ENGL103. BoK:LT,DC.

**T 15ENGL256. Mothers and Daughters in Literature.** 3 ug.cr. Women base a large part of their self image upon how they view their mothers. Symbols of motherhood powerfully affect culture. Concepts mothers have of their daughters will be explored. Offered every third yr. Prereq.: 15ENGL103. BoK:LT.

**T 15ENGL257. Our Lives: Twentieth-Century Women's Autobiographies.** 3 ug.cr. Through five novels and a collection of diaries, this course will study the lives and achievements of well-known 20th century women from their teen years through old age. Offered alt. yrs. Prereq.: 15ENGL103. BoK:LT,DC.

**T 15ENGL259. Voices and Visions.** 3 ug.cr. American Poetry: Voices/Visions Survey of modern American poetry, explores the lives and works of thirteen of America's greatest poets: Whitman, Dickinson, Frost, Moore, Crane, Stevens, Hughes, Eliot, Pound, Lowell, Bishop, Plath and Williams. Offered alt. yrs. Prereq.: 15ENGL103. BoK:LT.

**T 15ENGL265. The Theme of Love in Literature.** 3 ug.cr. Comic, tragic, romantic, and grotesque: a study of the ties that bind both lovers and families from Shakespeare's *Romeo and Juliet* to Fay Weldon's *She-Devil*. Prereq.: 15ENGL103. BoK:LT.

**T 15ENGL309. Early American Fiction.** 3 ug.cr. Selections from the works of Brown, Cooper, Poe, Hawthorne, Melville and others. BoK:LT.

**T 15ENGL310. American Fiction: 1860-1910.** 3 ug.cr. The early realists and naturalists; selections from Twain, James, Crane, and others. BoK:LT.

**T 15ENGL312. American Fiction: 1910-1950.** 3 ug.cr. The major novelists of the early twentieth century. Hemingway, Faulkner, Fitzgerald, Wright, and others. BoK:LT.

**T 15ENGL320. Contemporary American Fiction.** 3 ug.cr. Representative fictions since 1950: realistic, absurdist, experimental. Writers include O'Connor, Ellison, Heller, Barth, Pynchon, Vonnegut and others. BoK:LT.

### English - British Literature

**T 15ENGB250. Shakespeare's Plays.** 3 ug.cr. A survey of Shakespeare's major plays for the non-major. BoK:LT.

**T 15ENGB251. Twentieth Century Fiction.** 3 ug.cr. Major works of our time. BoK:LT.

**T 15ENGB254. Women's Literature.** 3 ug.cr. How does gender intersect with other categories of identity like race, ethnicity, class, nationality, and sexual identity? We will examine the intersections — how they are represented in literature, and the conditions they create for writers — in novels, poems, plays, essays, short stories, and films by a wide range of women writers. BoK:LT,DC.

**T 15ENGB259. Myth and Literature.** 3 ug.cr. An examination of myth as it provides the fundamental building blocks for literature. Both the ancient myths and their modern incarnations will be studied. BoK:LT.

**T 15ENGB307. Shakespeare.** 1-3 ug.cr. The comedies, histories, and early tragedies to 1600. BoK:LT.

**T 15ENGB308. Shakespeare.** 3 ug.cr. The major tragedies, "problem" comedies, and romances. BoK:LT.

**T 15ENGB314. History of the Novel.** 3 ug.cr. Birth of the novel in satire, sentiment, and realism; Defoe, Fielding, Austen, and others. BoK:LT.

**T 15ENGB315. History of the Novel.** 3 ug.cr. Growth of the novel in social criticism and psychological depth; Bronte, Dickens, Eliot, Hardy, and others. BoK:LT.

**T 15ENGB316. History of the Novel.** 3 ug.cr. New directions for the novel in the 20th century; Conrad, Joyce, Lawrence, Woolf, and others. BoK:LT.

### English - Comparative Literature

**T 15ENGC371. Modern Fiction I: Late Nineteenth Century.** 3 ug.cr. The novels of such Continental, British, and American novelists as Flaubert, Dostoevsky, Melville, Tolstoy and James. BoK:LT.

**T 15ENGC372. Modern Fiction II: Early Twentieth Century.** 3 ug.cr. The novels of such Continental, British, and American writers as Mann, Kafka, Faulkner, and Joyce. BoK:LT.

**T 15ENGC373. Modern Fiction III: Mid-Twentieth Century.** 3 ug.cr. Continental, British, and American novelists such as Solzhenitsyn, Camus, Borges, Robbe-Grillet, Fowles, and Hemingway. BoK:LT.

**T 15ENGC376. Literature of the Old Testament.** 3 ug.cr. The rich literary traditions of the Old Testament studied against the background of ancient Near Eastern myth, ritual, and law. BoK:LT.

**T 15ENGC377. Literature of the Old Testament.** 3 ug.cr. The rich literary traditions of the Old Testament studied against the background of ancient Near Eastern myth, ritual, and law. The second offering in a three-part course sequence. BoK:LT.

**T 15ENGC378. Literature of the Old Testament.** 3 ug.cr. The rich literary traditions of the Old Testament studied against the background of ancient Near Eastern myth, ritual, and law. The third offering in a three-part course sequence. BoK:LT.

## Geography

**T 15GEOG101. Introduction to Physical Geography.** 3 ug.cr. For majors and non-majors; fulfills the Natural Science requirement when taken with Geog. 111, 112, 113, or with an elementary course in another science. Weather and climate: Elements of meteorology including temperature, precipitation, pressure cells, and air masses. Global climatic patterns, controls, and mechanisms of climate change examined. BoK:NS,SE.

**T 15GEOG102. Introduction to Physical Geography.** 3 ug.cr. See 15GEOG101. Landforms: Processes of formation and their significance, studied through maps and diagrams. BoK:NS,SE.

**T 15GEOG103. Introduction to Physical Geography.** 3 ug.cr. See 15GEOG101. The environment: soil forming processes and plant geography, man's impact on the biosphere. BoK:NS,SE.

**T 15GEOG104. Introduction to Human Geography.** 3 ug.cr. Uses population distribution to demonstrate how geography as a social science defines and answers questions. A General Education Course. BoK:SS,DC.

**T 15GEOG105. Introduction to Human Geography.** 3 ug.cr. Introduction to geographic models used to describe, explain, and interpret political and cultural diversity. A General Education Course. BoK:SS,DC.

**T 15GEOG111. Introduction to Physical Geography Laboratory.** 2 ug.cr. Fulfills the Natural Science requirement when taken with Geog. 101, 102, 103. Practical analysis of weather and climate using meteorological data and charts; to supplement the lecture course Geog. 101. One lab., one recitation per week. Coreq.: Geog. 101. General Education Course.

**T 15GEOG112. Introduction to Physical Geography Laboratory.** 2 ug.cr. Fulfills the Natural Science requirement when taken with Geog. 101, 102, 103. Practical analysis of weather and climate using meteorological data and charts; to supplement the lecture course Geog. 101. One lab., one recitation per wk. The second offering in a three-part course sequence. COREQ.: GEOG. 101. A General Education Course.

**T 15GEOG113. Introduction to Physical Geography Laboratory.** 2 ug.cr. Practical analysis of environmental problems, including field work and laboratory analyses, to supplement the lecture course Geog. 103. The third offering in a three-part course sequence. A General Education Course.

## Geology

**T 15GEO101. Introduction to Geology.** 3 ug.cr. A survey of geological processes and materials, and the development of life as seen through the fossil record. Emphasis is placed on the earth as an evolving, dynamic body from the atomic scale to its place in the solar system. Geologic hazards and environmental problems are discussed. BoK:NS.

**T 15GEO102. Introduction to Geology.** 3 ug.cr. This course is a continuation of Geology 101 and emphasizes concepts in physical geology at the introductory level. The major emphasis is on geologic concepts and processes related to: glaciology and the nature of ice ages; wind erosion and deposition; oceanography; earthquakes and seismology; continental drift and plate tectonics; economic geology; and planetary geology. Prereq.: 15GEO101. BoK:NS.

**T 15GEO103. Introduction to Geology.** 3 ug.cr. This course is a continuation of Geology 102 and emphasizes concepts in historical geology at the introductory level. Particular attention is given to: the nature and measurement of geologic time; geologic evidence of the earth's early history; the nature of the fossil record; and the geological history of North America from the Precambrian to the recent. The historical development of ideas about earth history are also discussed. Prereq.: 15GEO102. BoK:NS.

**T 15GEO111. Geology Laboratory.** 3 ug.cr. Laboratory and field work with maps, rocks, minerals and fossils. BoK:NS.

**T 15GEO112. Geology Laboratory.** 3 ug.cr. Laboratory and field work with maps, rocks, minerals and fossils. This is the second offering of a three-course sequence. BoK:NS.

**T 15GEO113. Geology Laboratory.** 3 ug.cr. Laboratory and field work with maps, rocks, minerals and fossils. This is the third offering of a three-course sequence. BoK:NS.

**T 15GEO161. Oceanography-Planet Earth.** 3 ug.cr. The evolution of planet earth, its oceans and atmosphere; marine organisms and their environments; the ocean as a record of past and future climate. BoK:NS.

**T 15GEO162. Evolution of Life: Planet Earth.** 3 ug.cr. Examination of patterns and processes in the history and life on Earth, and the way in which scientists make these determinations. BoK:HP,NS.

**T 15GEO163. Planet Earth: Reefs.** 3 ug.cr. Introduction to geology and biology of coral reefs and their ecology and distribution through space and time, and human impact on this unique and endangered marine environment. BoK:NS.

## German Studies

**T 15GRMN171. Survey of German Culture I.** 3 ug.cr. In English. The origin of German institutions, social structures, philosophical and religious thought through the Baroque. BoK:HU,DC.

**T 15GRMN172. Survey of German Culture II.** 3 ug.cr. In English. German contributions to Western civilization from the Age of Enlightenment to 1918. BoK:HU,DC.

**T 15GRMN173. Survey of German Culture III.** 3 ug.cr. In English. A cultural view of Germany from World War I to the present. BoK:HU,DC.

**T 15GRMN276. Jewish Culture in Contemporary Germany.** 3 ug.cr. This course focuses on Jewish culture in today's Germany. BoK:HU,DC.

**T 15GRMN304. The German-Speaking World Today.** 3 ug.cr. (Modern Topics.) Germany, Austria, and Switzerland: their geography, social structure, political institutions, economics, and cultural achievements. Lectures and discussions in English and German. BoK:HU,DC.

**T 15GRMN305. The German-Speaking World Today.** 3 ug.cr. (Modern Topics.) Germany, Austria, and Switzerland: their geography, social structure, political institutions, economics, and cultural achievements. Lectures and discussions in English and German. The second offering in a three-part course sequence. BoK:HU,DC.

**T 15GRMN306. The German-Speaking World Today.** 3 ug.cr. (Modern Topics.) Germany, Austria, and Switzerland: their geography, social structure, political institutions, economics, and cultural achievements. Lectures and discussions in English and German. The third offering in a three-part course sequence. BoK:HU,DC.

## history

**T 15HIST104. Medieval and Renaissance.** 3 ug.cr. History of Europe and the Mediterranean world from 300 to 1500. BoK:HP.

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**T 15HIST106. Medieval and Renaissance.** 3 ug.cr. History of Europe and the Mediterranean world from 300 to 1500. BoK:HP.

**T 15HIST110. American History to 1820.** 3 ug.cr. A survey of American history from colonial times to 1820. BoK:HP.

**T 15HIST111. American History 1820-1920.** 3 ug.cr. A survey of American history from 1820 to 1920. BoK:HP.

**T 15HIST112. American History Since 1920.** 3 ug.cr. A survey of American history from 1920 to the present. BoK:HP.

**T 15HIST130. World History I: Worlds Forming.** 3 ug.cr. A survey of world history from the development of separate civilizations to the modern age of interdependence. BoK:HP,DC.

**T 15HIST131. World History II: Worlds Connecting.** 3 ug.cr. The Medieval period. BoK:HP,DC.

**T 15HIST132. World History III: Worlds Interacting.** 3 ug.cr. The Modern period. BoK:HP,DC.

**T 15HIST151. History of Western Civilization.** 3 ug.cr. A survey of Western civilization - prehistoric times to the contemporary world; a broad view of institutions, ideas and problems developing in Western societies. A three-part sequence. BoK:HP.

**T 15HIST152. History of Western Civilization.** 3 ug.cr. A survey of Western civilization - prehistoric times to the contemporary world; a broad view of institutions, ideas and problems developing in Western societies. A three-part sequence. BoK:HP.

**T 15HIST153. History of Western Civilization.** 3 ug.cr. A survey of Western civilization - prehistoric times to the contemporary world; a broad view of institutions, ideas and problems developing in Western societies. A three-part sequence. BoK:HP.

**T 15HIST224. Latin American History.** 3 ug.cr. Clash between pre-Columbian Indian civilizations (Maya, Aztec, Inca) and the Spanish, and the resulting societies of conquest and of empire. Themes include: Indian conversion and exploitation, demographic disaster, colonial government, pirates and gold, racial mixture. BoK:HP,DC.

**T 15HIST225. Latin American History.** 3 ug.cr. Latin America's search for political and economic independence. Themes include: Bourbon reform, independence movements, rise of caudillos, economic development (export crops), society (elite, women, Indians, poor). BoK:HP,DC.

**T 15HIST226. Latin American History.** 3 ug.cr. Latin American responses to 20th century. Themes include: Mexican Revolution, Argentine Peronism, Cuban Revolution, Chilean socialism, Central America, militarism, multinationals. BoK:HP,DC.

## Judaic Studies

**T 15JUDC127. History of Jewish Civilization.** 3 ug.cr. Jewish civilization as interpreted through Jewish historical, religious, literary, and cultural developments, Biblical to rabbinic period. Fulfills A&S history requirement. BoK:HP,DC.

**T 15JUDC128. History of Jewish Civilization.** 3 ug.cr. Jewish civilization as interpreted through Jewish historical, religious, literary, and cultural developments. Medieval period. BoK:HP,DC.

**T 15JUDC129. History of Jewish Civilization.** 3 ug.cr. Jewish civilization as interpreted through Jewish historical, religious, literary and cultural developments 1750 to the present. BoK:HP,DC.

**T 15JUDC135. Introduction to Judaism.** 3 ug.cr. Introduction to basic concepts, beliefs and practices of Judaism as expressed through its classic literature. BoK:HU,DC.

## Mathematics

**T 15MATH148. Elementary Probability and Statistics.** 3 ug.cr. Chapters 8-11. Understanding Inference: Sampling distributions, probability, sample proportions and means, binomial distribution, confidence intervals, inference for means, comparing two means, inference for population spread. Prereq.: 15MATH147. BoK:QR.

**T 15MATH149. Elementary Probability and Statistics.** 3 ug.cr. Chapters 12-15. Topics In Inference: Inference for proportions, two-sample inference, two-way tables and Chi Square, one-way analysis of variance (ANOVA), inference for regression. Prereq.: 15MATH148. BoK:QR.

**T 15MATH225. Finite Math and Calculus I.** 3 ug.cr. Equations, inequalities, functions, matrices, systems of linear equations and linear inequalities, sets, counting, probability. Prereq.: A score of 530 or better on the Math Placement Test is recommended. BoK:QR.

**T 15MATH226. Finite Math and Calculus II.** 3 ug.cr. Functions, graphs, limits, continuity, differentiation, curve sketching, optimization. Properties of exponential and logarithmic functions. Prereq.: 15MATH225; a score of 530 or better on the Math Placement Test is recommended. BoK:QR.

**T 15MATH227. Finite Math and Calculus III.** 3 ug.cr. Exponential and logarithmic functions, antidifferentiation, the definite integral, area, functions of two variables, partial derivatives, maxima and minima, Lagrange multipliers. Prereq.: 15MATH226. BoK:QR.

**T 15MATH261. Calculus and Analytic Geometry I.** 5 ug.cr. 5 cr. Course covers functions, limits and continuity, derivatives, applications of the derivative, the integral. BoK:QR.

**T 15MATH262. Calculus and Analytic Geometry II.** 5 ug.cr. Course covers the integral, inverse functions, techniques of integration, applications of the integral. Prereq.: 15MATH261. BoK:QR.

T=Approved Transfer Module course.

BoK (Breadth of Knowledge) Coding

H=University Honors course.

DC: Diversity & Culture. EC: English composition. FA: Fine Arts. HP: Historical Perspectives. HU: Humanities. LT: Literature. NS: Natural Sciences. QR: Quantitative Reasoning.

SE: Social & Ethical Issues. SS: Social Sciences. Those classes which can be repeated as a BoK requirement are marked with an "r;" those which only partially fulfill a requirement are marked with a "p."

## 4 Transfer Module

**T 15MATH263. Calculus and Analytic Geometry III.** 5 ug.cr. Course covers sequences and series, conic sections, vectors, lines and planes, vector-valued functions. Prereq.: 15MATH262. BoK:QR.

### Philosophy

**T 15PHIL101. Moral and Political Ideas.** 3 ug.cr. BoK:HU,SE.

**T 15PHIL102. Moral and Political Ideas.** 3 ug.cr. Selected ethical, political, and social theories from the Renaissance to the 19th century. BoK:HU,SE.

**T 15PHIL103. Moral and Political Ideas.** 3 ug.cr. Selected ethical, political and social theories in 20th century thought. BoK:HU,SE.

**T 15PHIL104. Introduction to Philosophy: Belief and Knowledge.** 3 ug.cr. Introductory readings, surveying classical problems in the theory of knowledge. BoK:HU,SE.

**T 15PHIL105. Introduction to Philosophy: Mind and Will.** 3 ug.cr. Introductory readings surveying classical problems in metaphysics. BoK:HU.

**T 15PHIL106. Introduction to Philosophy: Ethics.** 3 ug.cr. Introductory readings surveying classical problems in ethics and values. BoK:HU,SE.

**T 15PHIL111. Contemporary Moral Issues.** 3 ug.cr. Philosophical and ethical issues underlying major controversies of the day: rights, freedom and punishment; sex, euthanasia, abortion; business ethics. Offered alt. yrs. BoK:HU,SE.

**T 15PHIL121. Critical Thinking.** 3 ug.cr. Introduction to the techniques of clear and careful reasoning. BoK:HU.

**T 15PHIL123. Introduction to Logic.** 3 ug.cr. Deductive reasoning. Sec. I-II. Symbolizing arguments in formal logic. Proof techniques, validity, consistency. BoK:HU,QR.

**T 15PHIL220. African Philosophy.** 3 ug.cr. A survey course on the question of "What is African philosophy?" The metaphysics and ethics of African philosophical traditions like animism and Islam.

**T 15PHIL222. Ancient Philosophy.** 3 ug.cr. Search for one reality. Parmenides, Plato, and Aristotle. BoK:HU.

**T 15PHIL235. Pre-Scientific Thought.** 3 ug.cr. Earliest beginnings of scientific thought. Pre-Socratic Greeks. Thales through Plato. Offered every third yr. BoK:HU.

**T 15PHIL245. Introduction to Environmental Ethics.** 3 ug.cr. The philosophical bases for reasonable arguments establishing that at least some aspects of nature should be preserved in the raw and wild state. BoK:HU,SE.

**T 15PHIL246. Environmental Ethics H.** 3 ug.cr. An honors section of 15PHIL245. The philosophical bases for reasonable arguments establishing

**T 15PHIL245. Introduction to Environmental Ethics.** 3 ug.cr. The philosophical bases for reasonable arguments establishing that at least some aspects of nature should be preserved in the raw and wild state. BoK:HU,SE.

**T 15PHIL246. Environmental Ethics H.** 3 ug.cr. An honors section of 15PHIL245. The philosophical bases for reasonable arguments establishing that at least some aspects of nature should be preserved in the raw and wild state. BoK:HU,SE.

**T 15PHIL324. Ethics and Animals: Human Obligations toward Other Species.** 3 ug.cr. An introduction to the moral problems raised by our killing, eating and experimenting on non-human animals. Course emphasis will be on learning how to address an emotionally explosive normative issue in a rational and coherent way, drawing on the main traditions in moral philosophy from ancient to modern. BoK:HU,SE.

### Physics

**T 15PHYS101. College Physics.** 1-5 ug.cr. A survey of physics without calculus. Three lecture hours and one-hour recitation per week. Proficiency in algebra and trigonometry required. Coreq.: 15PHYS111. This course does not satisfy the engineering or pre-engineering requirement. BoK:NS,QR.

**T 15PHYS102. College Physics.** 1-5 ug.cr. A survey of physics without calculus. Three lecture hours and one-hour recitation per week. Proficiency in algebra and trigonometry required. The second offering in a three-part course sequence. Coreq.: 15PHYS112. This course does not satisfy the engineering or pre-engineering requirement. BoK:NS,QR.

**T 15PHYS103. College Physics.** 1-5 ug.cr. A survey of physics without calculus. Three lecture hours and one-hour recitation per week. Proficiency in algebra and trigonometry required. The third offering in a three-part course sequence. Coreq.: 15PHYS113. This course does not satisfy the engineering or pre-engineering requirement. BoK:NS,QR.

**T 15PHYS104. Introductory Physics I.** 3 ug.cr. Lectures on fundamentals of physics, supplemented by demonstrations. Proficiency in elementary algebra is required. BoK:NS.

**T 15PHYS105. Introductory Physics II.** 3 ug.cr. Lectures on fundamentals of physics, supplemented by demonstrations. Proficiency in elementary algebra is required. The second offering in a three-part course sequence. Prereq.: 15PHYS104. BoK:NS.

**T 15PHYS106. Introductory Physics III.** 3 ug.cr. Lectures on fundamentals of physics, supplemented by demonstrations. Proficiency in elementary algebra is required. The third offering in a three-course sequence. Prereq.: 15PHYS105. BoK:NS.

**T 15PHYS111. College Physics Lab.** 1 ug.cr. A 2-1/2 hour laboratory each week to accompany college physics.

**T 15PHYS112. College Physics Lab.** 1 ug.cr. A 2-1/2 hour laboratory each week to accompany college physics. The second offering in a three-part course sequence.

**T 15PHYS113. College Physics Lab.** 1 ug.cr. A 2-1/2 hour laboratory each week to accompany college physics. The third offering in a three-part course sequence.

**T 15PHYS120. Astronomy and the Natural Universe.** 3 ug.cr. The sky; comparative planetology; comets and other interplanetary debris; the formation and evolution of the solar system. BoK:NS.

**T 15PHYS121. Astronomy and the Natural Universe.** 3 ug.cr. The structure and evolution of stars; the Milky Way Galaxy; other galaxies; quasars; cosmology. BoK:NS.

**T 15PHYS122. Astronomy and the Natural Universe.** 3 ug.cr. Selected topics in astronomy: search for life in the universe, paradigm shifts in astronomy, the history of astronomy, etc. Topics may vary from year to year. BoK:NS.

**T 15PHYS125. Astronomy Lab.** 2 ug.cr. Meets one morning or evening per week. Selected experiments in astronomy: use of telescopes, astrophotography, solar observations, computers in astronomy.

**T 15PHYS126. Astronomy Lab.** 2 ug.cr. Meets one morning or evening per week. Selected experiments in astronomy: use of telescopes, astrophotography, solar observations, computers in astronomy.

**T 15PHYS127. Astronomy Lab.** 2 ug.cr. Meets one morning or evening per week. Selected experiments in astronomy: use of telescopes, astrophotography, solar observations, computers in astronomy.

**T 15PHYS133. Physics of Sound and Music.** 3 ug.cr. A description of acoustical phenomena: the reception of sound (the ear), the environment of music (from acoustics), and the production of musical sounds (musical instruments). BoK:NS.

**T 15PHYS134. Physics of Light and Color.** 3 ug.cr. A study of the basic principles of light with emphasis on the color spectrum, interference phenomena, color reproduction, lasers, holography, color perception, color and the consumer and the artist. BoK:NS.

**T 15PHYS201. General Physics I.** 4 ug.cr. A survey of physics, using calculus, recommended for science and mathematics students. Coreq.: 15PHYS211. Prereq. or Coreq.: 15MATH261. BoK:NS,QR.

**T 15PHYS202. General Physics II.** 4 ug.cr. A survey of physics, using calculus, recommended for science and mathematics students. The second offering in a three-part course sequence. Coreq.: 15PHYS212. Prereq. or Coreq.: 15MATH262. BoK:NS,QR.

**T 15PHYS203. General Physics III.** 4 ug.cr. A survey of physics, using calculus, recommended for science and mathematics students. The third offering in a three-part course sequence. Coreq.: 15PHYS213. Prereq. or Coreq.: 15MATH263. BoK:NS,QR.

**T 15PHYS211. General Physics Laboratory I.** 1 ug.cr. A three-hour laboratory each week accompanying General Physics.

**T 15PHYS212. General Physics Laboratory II.** 1 ug.cr. A three-hour laboratory each week accompanying General Physics.

**T 15PHYS213. General Physics Laboratory III.** 1 ug.cr. A three-hour laboratory each week accompanying General Physics.

### Psychology

**T 15PSYC101. Introduction to Psychology.** 3 ug.cr. The major concepts of psychology as a behavioral science. 101 or 121, 102, 103 may be taken in any sequence. 101, 121, 102, 103 or equiv. intro. sequence are prerequisites for all 200-level psychology courses. BoK:SS.

**T 15PSYC102. Introduction to Psychology.** 3 ug.cr. The major concepts of psychology as a behavioral science continued. See 15PSYC101. BoK:SS.

**T 15PSYC103. Introduction to Psychology.** 3 ug.cr. The major concepts of psychology as a behavioral science continued. See 15PSYC101. BoK:SS.

**T 15PSYC220. Principles of Psychology: A Survey.** 3 ug.cr. Basic aims, methods, and topics as the bases of human behavior, intelligence and creativity, learning and remembering, personality and motivation, abnormal and social psychology. This is a survey course for non-Psychology majors. This course is intended for those students who plan to complete only one Psychology course or courses that only require 15PSYC175 as a prerequisite. BoK:SS.

**T 15PSYC288. Psychology of Adjustment.** 3 ug.cr. Mechanisms by which people adjust to themselves and their environments. Current and traditional approaches to understanding personal adjustment and maladjustment. Techniques used to measure coping ability and treatments. Prereq.: 15PSYC101 or 175. BoK:SS.

**T 15PSYC289. Psychology of Adjustment.** 3 ug.cr. Continuation of 15PSYC247. Prereq.: 15PSYC247. BoK:SS.

**T 15PSYC353. Introduction to Humanistic Psychology.** 3 ug.cr. Discussion and experiential learning of new conceptions of man in society, presented as alternatives to behavioristic and Freudian psychology. Offered alt. yrs. Prereq.: 15PSYC101. BoK:SS.

### Sociology

**T 15SOC141. Introduction to Sociology.** 3 ug.cr. Basic principles and perspectives for analysis of the social character of human activities, particularly in modern society. (Prereq. to all other Soc. courses.) Duplicate of Sociology 140. BoK:SS.

**T 15SOC142. Societies in Change.** 3 ug.cr. Analysis of structural changes in societies as human populations adapt to their environments, with an emphasis on population, urbanization, and social change. Prereq.: 15SOC141. BoK:SS.

**T 15SOC143. Contemporary Social Issues.** 3 ug.cr. Discussion of selected social issues and problems of current concern in society. Prereq.: 15SOC141. BoK:SS,SE.

**T 15SOC144. Barriers to Equality.** 3 ug.cr. An examination of age, sex, and race as major influences on the structure of interaction in society and on access to social opportunity. Prereq.: 15SOC141. BoK:SS,DC.

**T 15SOC145. Understanding Social Behavior.** 3 ug.cr. An analysis of social bases of individual behavior, including the influence of formal and informal groups and other social phenomena. Prereq.: 15SOC141. BoK:SS.

**T 15SOC275. Sociology of the Family.** 3 ug.cr. The changing nature of the domestic institutions in the United States; marital adjustment, child rearing and family and marriage tensions. BoK:SS.

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BoK (Breadth of Knowledge) Coding

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**T 15SOC276. Changing Roles for Men and Women.** 3 ug.cr. Social causes and consequences of change in traditional sex roles, with emphasis upon problems of contemporary women and transition in American family structure. BoK:SS.

**T 15SOC288. Race and Race Relations.** 3 ug.cr. A sociological introspection of recent racial movements in the U.S. Special attention given to individual race relations problems. Prereq.: 15SOC175 or 176. BoK:SS,DC.

### Women's Studies

**T 15WMST298. Outrageous Writings by Women.** 3 ug.cr. Women writers are attracted to certain literary forms scorned by conventional academic critics — Brown, *Rubyfruit Jungle*; Wittig, *Les Guerillères*; Didion, *Play It As It Lays*; LeGuin, *The Dispossessed*; poetry by Judy Grahn; journals by May Sarton, Anais Nin. Offered alt. yrs. Prereq.: 15ENGL103. BoK:LT,DC.

**T 15WMST313. Changing Roles for Men and Women.** 3 ug.cr. Social causes and consequences of change in traditional sex roles, with emphasis upon problems of contemporary women and transition in American family structure. BoK:SS.

**T 15WMST318. Women in American History: 1607-1820.** 3 ug.cr. Historical analysis of the roles of native, African and European women in early American society. It will examine women's experiences in the 17th and 18th Centuries and the impact of the American Revolution on women's lives. Prereq.: 15ENGL103 or perm. of instr. BoK:HP,DC.

**T 15WMST319. Women in American History: 1820-1920.** 3 ug.cr. Historical analysis of the role of the Nineteenth Century Woman and gain of the vote for women. Prereq.: 15ENGL103 or perm. of instr. BoK:HP,DC.

**T 15WMST330. Black Women Writers.** 3 ug.cr. A study of the fiction of selected Black women writers from Zora Neale Hurston to Toni Morrison. Special emphasis on developing concepts of Black womanhood. Prereq.: 15ENGL103. BoK:LT,DC.

## (16) COLLEGE-CONSERVATORY OF MUSIC

### Music History and Literature

**T 16HILT111. Music History and Literature I.** 2 ug.cr. Music in Western Civilization traced from antiquity to 1750; emphasis on composers' styles in relation to the cultural background of the various eras. BoK:FA-p,HP-p.

**T 16HILT112. Music History and Literature I.** 2 ug.cr. Music in Western Civilization traced from antiquity to 1750; emphasis on composers' styles in relation to the cultural background of the various eras. BoK:FA-p,HP-p.

**T 16HILT113. Music History and Literature I.** 2 ug.cr. Music in Western Civilization traced from antiquity to 1750; emphasis on composers' styles in relation to the cultural background of the various eras. BoK:FA-p,HP-p.

**T 16HILT211. Music History and Literature II.** 2 ug.cr. Music in Western Civilization traced from 1750 to the present, a continuation of Music History and Literature 16HILT113. BoK:FA-p,HP-p.

**T 16HILT212. Music History and Literature II.** 2 ug.cr. Music in Western Civilization traced from 1750 to the present, a continuation of Music History and Literature 16HILT113. BoK:FA-p,HP-p.

**T 16HILT213. Music History and Literature II.** 2 ug.cr. Music in Western Civilization traced from 1750 to the present, a continuation of Music History and Literature 16HILT113. BoK:FA-p,HP-p.

## (23) COLLEGE OF DESIGN, ARCHITECTURE, ART, AND PLANNING

### Architecture and Interior Design

**T 23SAID217. Architecture through the Ages.** 3 ug.cr. The history of Western and Near Eastern architecture from prehistoric times through antiquity; the architecture of non-Western cultures in Asia and Africa. BoK:FA,HP.

**T 23SAID218. Architecture through the Ages.** 3 ug.cr. The history of architecture from the early Christian and Byzantine through the Medieval and Renaissance periods. BoK:FA,HP.

**T 23SAID219. Architecture through the Ages.** 3 ug.cr. The history of architecture from the Baroque through the 18th and 19th centuries to the present, including the Modernism and Post-Modernism. BoK:FA,HP.

**T 23SAID327. American Architecture I: Colonialism and Early Republican.** 3 ug.cr. The architecture and town-planning of the Prehistoric (Native American/Indian), Colonial, and Early Republican eras to about 1820; British Colonial developments including vernacular Late Medieval and Georgian influences on builder architects; concluding with careers of gentlemen architects Thomas Jefferson, Charles Bulfinch, and B. H. Latrobe. Weekend field trips will be available. BoK:FA,HP.

**T 23SAID328. American Architecture II: Victorian and Early Modern.** 3 ug.cr. "Victorian" American architecture, structural technology and urban development from the War of 1812 to World War I; 19th century historical eclecticism, Greek and Gothic Revivals of the antebellum period; their later variants in the Gilded Age after the Civil War; turn-of-the-century American Renaissance, and the origins of modernism in works of Richardson, Sullivan and Frank Lloyd Wright. Field trips will be available. BoK:FA,HP.

**T 23SAID329. American Architecture III: Modern, Traditional, and Post-Modern.** 3 ug.cr. The continuity of traditional historicist styles presented in contrast to the American Arts and Crafts Movement and the impact of the International Style (Bauhaus) and its Art Deco counterpart between the world wars; American modern architecture, technology, and urbanism after World War II in the

context of the recent reaction known as Post-Modernism, an attempt to integrate the traditional and modern attitudes. Field trips will be available. BoK:FA,HP.

### Art Appreciation

**T 23ARTA286. American Art: 1776-1900.** 3 ug.cr. Painting, sculpture, and architecture in the United States from the Revolution to 1890. BoK:FA,HP.

**T 23ARTA287. American Art: 1900-1945.** 3 ug.cr. From Ashcan School through abstract expressionism. BoK:FA,HP.

**T 23ARTA288. Contemporary Art.** 3 ug.cr. Study of art forms which have emerged since 1945. BoK:FA.

**T 23ARTA289. Symbolist Movement in Art.** 3 ug.cr. Themes and theories of Symbolism. Emphasis on leading turn-of-the-century artists such as Gauguin, Hodler, Munch, Ensor, Redon, Moreau, Klimt, and others. BoK:FA.

### Art History

**T 23ARTH111. History of Art I: Ancient-Early Medieval.** 3 ug.cr. Survey of art and architecture in the ancient world and medieval Europe until about A.D. 1100. BoK:DC-p,HP.

**T 23ARTH112. History of Art II: Romanesque-Renaissance.** 3 ug.cr. Survey of European art and architecture from about 1100 to 1600. BoK:DC-p,HP.

**T 23ARTH113. History of Art III: Seventeenth-Twentieth Centuries.** 3 ug.cr. Survey of European and American art and architecture from 1600 to the present. BoK:DC-p,HP.

**T 23ARTH191. Modern Painting and Sculpture.** 3 ug.cr. Survey of the major artists and monuments from Post-Impressionism to the present, including works by Picasso, Matisse, Kandinsky, Moore, Pollock, De Kooning. BoK:HP.

**T 23ARTH192. Modern Architecture.** 3 ug.cr. Survey of major architects and architecture from late 19th century to present, including Frank Lloyd Wright, Le Corbusier, Mies van der Rohe, Louis Kahn, and Post-Modernism. BoK:HP.

## (18) COLLEGE OF EDUCATION, CRIMINAL JUSTICE, AND HUMAN SERVICES

### Health Promotion and Education

**T 18HPE284. Philosophy of Sports.** 3 ug.cr. An examination of sports with respect to definition, meaning. An examination of the conceptual framework of sports, i.e., the competition, winning, hero, violence and its relationship to the values of the community. Why are sports important? BoK:HU.

**T 18SPED273. Perspectives on Individuals with Disabilities.** 3 ug.cr. This course will focus on infants, children, youth and adults with various individual differences or variations. A study of the dynamic relationship and effect of a disability on the individual, family, educational system, community and society. Prereq.: 18SPED175,30PSYC101. BoK:SS,SE.

## (28) RAYMOND WALTERS COLLEGE

### Art History

**T 28ARTH111. History of Art I: Ancient — Romanesque.** 3 ug.cr. Survey of art and architecture in the ancient world and in medieval Europe until 1200 A.D. Prereq.: Qualification for Fresh. Engl. BoK:FA,HP.

**T 28ARTH112. History of Art II: Gothic — Renaissance.** 3 ug.cr. Survey of European art and architecture from the Gothic period to 1600. Prereq.: Qualification for Fresh. Engl. BoK:FA,HP.

**T 28ARTH113. History of Art III: 17th-20th Centuries.** 3 ug.cr. Survey of the evolution of European art and architecture from 1600 to present. Prereq.: Qualification for Fresh. Engl. BoK:FA,HP.

**T 28ARTH273. Modern European Art.** 3 ug.cr. The great painters of the 19th century, including David, Delacroix, Ingres, Courbet, Manet, Monet, Renoir, Degas, Gauguin, and Van Gogh. Prereq.: 28ARTH112 or 113 or perm. of instr. BoK:FA,HP.

**T 28ARTH276. Age of Rembrandt and Rubens.** 3 ug.cr. The great artists of the 17th century in Europe: Bernini, Velazquez, Rubens, Van Dyck, Rembrandt, Vermeer, Ter Borch, Dutch genre painting, and art during the reigns of Louis XIV and Charles II. Prereq.: 28ARTH112 or 113 or perm. of instr. BoK:FA,HP.

### Biology

**T 28BIOL101. Biology I.** 5 ug.cr. First-year lecture and laboratory course in the biological sciences for science majors and transfer students, emphasizing application of the scientific method to understanding biology and the structure and activities of cells. Prereq.: One year of each of high school biology and chemistry with a "C" or better. BoK:NS.

**T 28BIOL102. Biology II.** 5 ug.cr. Continuation of Biology I emphasizing cell reproduction, inheritance, evolution and population genetics. Prereq.: 28BIOL101. BoK:NS.

**T 28BIOL103. Biology III.** 5 ug.cr. Continuation of Biology II emphasizing plant and animal anatomy, function and diversity, and ecology of populations and communities. Prereq.: 28BIOL102. BoK:NS.

**T 28BIOL104. Introduction to Biology I.** 3 ug.cr. Basic concepts of biological science and their relation to mankind: ecology, genetics, human structure and function, ethology, and evolution. Primarily for the non-science major.

**T 28BIOL105. Introduction to Biology II.** 3 ug.cr. See 28BIOL104.

**T 28BIOL106. Introduction to Biology III.** 3 ug.cr. See 28BIOL104.

## Chemistry

**T 28CHEM101. First Year Chemistry I.** 4 ug.cr. Three hours of lecture and 1.5 hours recitation per week. Introduction to modern Chemistry for science majors with an emphasis on problem solving. Study of nomenclature, stoichiometry, gas laws and thermochemistry. Coreq.: 28CHEM111. Prereq.: C or better in H.S. Chem.; qualification for 28ENGL101 and 28MATH173. BoK:NS,QR.

**T 28CHEM102. First Year Chemistry II.** 4 ug.cr. Three hours of lecture and 1.5 hours recitation per week. Study of electronic structure, bonding and the states of matter. Prereq.: 28CHEM101. Coreq.: 28CHEM112. BoK:NS,QR.

**T 28CHEM103. First Year Chemistry III.** 4 ug.cr. Three hours of lecture and 1.5 hours of recitation per week. Study of kinetics, equilibria, thermodynamics and electrochemistry. Prereq.: 28CHEM102. Coreq.: 28CHEM113. BoK:NS,QR.

**T 28CHEM104. General Chemistry I.** 5 ug.cr. Three hours lecture, 1 hour recitation, and 2 hours lab per week covering introductory principles, practices, and applications of inorganic chemistry for non-science majors. Prereq.: Qualification for 28ENGL101 and HS Coll Prep Math or 28MATH132, either with "C" or better. BoK:NS.

**T 28CHEM105. General Chemistry II.** 5 ug.cr. Three hours lecture, 1 hour recitation, and 2 hours lab per week covering introductory principles, practices and applications of organic chemistry for non-science majors. Prereq.: 28CHEM104. BoK:NS.

**T 28CHEM106. General Chemistry III.** 5 ug.cr. Three hours lecture, 1 hour recitation, and 2 hours lab per week covering introductory principles, practices, and applications of biochemistry for non-science majors. Prereq.: 28CHEM105. BoK:NS.

**T 28CHEM111. First Year Chemistry Laboratory I.** 1 ug.cr. Three hours per week. Laboratory to accompany 28CHEM101. Coreq.: 28CHEM101.

**T 28CHEM112. First Year Chemistry Laboratory II.** 1 ug.cr. Three hours per week. Laboratory to accompany 28CHEM102. Coreq.: 28CHEM102.

**T 28CHEM113. First Year Chemistry Laboratory III.** 1 ug.cr. Three hours per week. Laboratory to accompany 28CHEM103. Coreq.: 28CHEM103.

## Economics

**T 28ECON101. Principles of Economics I.** 3 ug.cr. An introduction to our economic system. Supply and demand analysis. Price determination under market structures characterized by varying degrees of competition. BoK:SS.

**T 28ECON102. Principles of Economics II.** 3 ug.cr. Basic concepts and theory of macroeconomics. Neo-Keynesian and monetary approaches to aggregate demand. Stabilization policy. Prereq.: 28ECON101. BoK:SS.

**T 28ECON103. Principles of Economics III.** 3 ug.cr. Theory of income distribution, the major income shares and related policy issues. The public sector — resource and income allocation. International economics. Prereq.: 28ECON102. BoK:SS.

**T 28ENGL207. American Writers I.** 3 ug.cr. Selected works in American literature from the Colonial period to 1865. BoK:LT.

**T 28ENGL208. American Writers II.** 3 ug.cr. Selected works in American literature from 1865 to 1930. BoK:LT.

**T 28ENGL281. Twentieth-Century Short Story.** 3 ug.cr. Twentieth-century thought and expression in the short story. Composition. Prereq.: 28ENGL101,2,3. BoK:LT.

**T 28ENGL283. Twentieth-Century Novel.** 3 ug.cr. Twentieth-century thought and expression in the novel. Composition. Prereq.: 28ENGL101,2,3. BoK:LT.

**T 28ENGL285. Twentieth-Century Drama.** 3 ug.cr. Twentieth-century thought and expression in the drama. Composition. Prereq.: 28ENGL101,2,3. BoK:LT.

## Geography

**T 28GEOG123. World Regional Geography: The Americas.** 3 ug.cr. Geographic perspectives on the problems facing North, Central, and South America, stressing population trends, debt management, resource use, cultural heritage, and environmental barriers. Prereq.: Must qualify for 28ENGL101 or perm. of instr. BoK:DC,SS.

**T 28GEOG124. World Regional Geography: Europe.** 3 ug.cr. Geographic perspectives on the problems facing North, Central, and South America, stressing population trends, debt management, resource use, cultural heritage, and environmental barriers. Prereq.: Must qualify for 28ENGL101 or perm. of instr. BoK:DC,SS.

## History

**T 28HIST110. American History I: American History to 1820.** 3 ug.cr. Survey of the United States from the age of discovery and colonization to 1820. Economic, social and political developments are stressed. Prereq.: Qualification for 28ENGL101 or perm. of instr. BoK:HP.

**T 28HIST111. American History II: 1820-1920.** 3 ug.cr. Surveys United States history from 1820 through World War I. Prereq.: 28HIST110. BoK:HP.

**T 28HIST112. American History III: 1920 to the Present.** 3 ug.cr. Continues the survey of United States history from World War I, the Roaring Twenties, the Great Depression, the Cold War, through our recent past. Prereq.: 28HIST111. BoK:HP.

**T 28HIST113. Foundations of Western Civilization I.** 3 ug.cr. The political, social, economic, and cultural foundations of our society from the Greeks through the Middle Ages. Prereq.: Qualification for 28ENGL101 or perm. of instr. BoK:HP.

**T 28HIST114. Foundations of Western Civilization II.** 3 ug.cr. The political, social, economic, and cultural foundations of our society from the Greeks through the Middle Ages. Prereq.: Qualification for 28ENGL101 or perm. of instr. BoK:HP.

**T 28HIST115. Foundations of Western Civilization III.** 3 ug.cr. The political, social, economic, and cultural foundations of our society from the Greeks through the Middle Ages. Prereq.: Qualification for 28ENGL101 or perm. of instr. BoK:HP.

**T 28HIST201. East Asian History I.** 3 ug.cr. History of China, Japan, Korea, and Vietnam from 500 B.C. to the present, emphasizing East Asian cultural heritage, the process of modernization, and recent political developments. BoK:HP,DC.

**T 28HIST202. East Asian History II.** 3 ug.cr. History of China, Japan, Korea, and Vietnam from 500 B.C. to the present, emphasizing East Asian cultural heritage, the process of modernization, and recent political developments. BoK:HP,DC.

**T 28HIST203. East Asian History III.** 3 ug.cr. History of China, Japan, Korea, and Vietnam from 500 B.C. to the present, emphasizing East Asian cultural heritage, the process of modernization, and recent political developments. BoK:HP,DC.

**T 28HIST215. History of Modern Europe I.** 3 ug.cr. A survey of European history from the Renaissance through the present day. Prereq.: Qualification for 28ENGL101 or perm. of instr. BoK:HP.

**T 28HIST216. History of Modern Europe II.** 3 ug.cr. A survey of European history from the Renaissance through the present day. Prereq.: Qualification for 28ENGL101 or perm. of instr. BoK:HP.

**T 28HIST217. History of Modern Europe III.** 3 ug.cr. A survey of European history from the Renaissance through the present day. Prereq.: Qualification for 28ENGL101 or perm. of instr. BoK:HP.

## Mathematics

**T 28MATH173. College Algebra I.** 3 ug.cr. Real number system, exponents, polynomials, rational expressions, equations, formulas, inequalities, graphs of functions, variation. Prereq.: C in 28MATH134 or equiv. BoK:QR.

**T 28MATH174. College Algebra II.** 3 ug.cr. Polynomial functions and their graphs, rational functions, conic sections, exponential and logarithmic functions, systems of equations and inequalities. Prereq.: 28MATH173 or equiv. BoK:QR.

**T 28MATH225. Finite Mathematics and Calculus I.** 3 ug.cr. Equations, Inequalities, Functions, Matrices, Systems of Linear Equations and Linear Inequalities, Simplex Method, Sets, Counting, Probability. Prereq.: 28MATH174 or equiv. BoK:QR.

**T 28MATH226. Finite Mathematics and Calculus II.** 3 ug.cr. Numerical, algebraic and graphical approaches to topics in applied calculus including: functions, graphs and curve sketching, limits, continuity, the derivative, differentiation techniques, optimization. Prereq.: 28MATH174 or equiv. BoK:QR.

**T 28MATH227. Finite Mathematics and Calculus III.** 3 ug.cr. Numerical, algebraic and graphical approaches to topics in applied calculus including: the definite integral, area, antiderivatives, integrating techniques, numeric approximation, functions of two variables, partial derivatives, maxima and minima, lagrange multipliers, differential equations. Prereq.: 28MATH226 or equiv. BoK:QR.

**T 28MATH261. Calculus and Analytic Geometry I.** 5 ug.cr. Functions, limits and continuity; derivatives; applications of the derivative; the integral. Prereq.: Four years college preparatory mathematics, including Trigonometry or 28MATH181. BoK:QR.

**T 28MATH262. Calculus and Analytic Geometry II.** 5 ug.cr. The integral and applications of the integral: exponential and logarithmic functions, inverse function; techniques of integration; polar coordinates and conic sections. Prereq.: 28MATH261. BoK:QR.

**T 28MATH263. Calculus and Analytic Geometry III.** 5 ug.cr. Taylor's formula, improper integrals, sequences and series; vectors, lines, planes, vector-valued functions. Prereq.: 28MATH262. BoK:QR.

## Philosophy

**T 28PHIL111. Introduction to Philosophy I.** 3 ug.cr. A philosophic examination of ethical, political, and other basic human questions. Prereq.: Must qualify for English Comp I. BoK:HU.

**T 28PHIL112. Introduction to Philosophy II.** 3 ug.cr. A philosophic examination of ethical, political, and other basic human questions. Prereq.: Must qualify for English Comp I. BoK:HU.

## Physics

**T 28PHYS101. College Physics I.** 4 ug.cr. A survey of physics. Four one-hour lectures each week. Prereq.: Grade of C or better in 28MATH181 or equiv. Coreq.: 28PHYS111. BoK:NS,QR.

**T 28PHYS102. College Physics II.** 4 ug.cr. A survey of physics. Four one-hour lectures each week. Prereq.: 28PHYS101. Coreq.: 28PHYS112. BoK:NS,QR.

**T 28PHYS103. College Physics III.** 4 ug.cr. A survey of physics. Four one-hour lectures each week. Prereq.: 28PHYS102. Coreq.: 28PHYS113. BoK:NS,QR.

**T 28PHYS104. Introduction to Physics I.** 3-4 ug.cr. Lectures on fundamental problems in physics supplemented by demonstrations and problems. Prereq.: 28MATH134 or equiv. BoK:NS.

**T 28PHYS105. Introduction to Physics II.** 3-4 ug.cr. Lectures on fundamental problems in physics supplemented by demonstrations and problems. Prereq.: 28PHYS104. BoK:NS.

**T 28PHYS106. Introduction to Physics III.** 3-4 ug.cr. Lectures on fundamental problems in physics supplemented by demonstrations and problems. Prereq.: 28PHYS105. BoK:NS.

**T 28PHYS111. College Physics Laboratory I.** 1 ug.cr. A two-hour laboratory each week accompanying College Physics. Coreq.: 28PHYS101.

**T 28PHYS112. College Physics Laboratory II.** 1 ug.cr. A two-hour laboratory each week accompanying College Physics. Coreq.: 28PHYS102.

**T 28PHYS113. College Physics Laboratory III.** 1 ug.cr. A two-hour laboratory each week accompanying College Physics. Coreq.: 28PHYS103.

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**T 28PHYS201. General Physics I.** 4 ug.cr. A survey of physics, using calculus, recommended for science and mathematics students. Coreq.: 28MATH261, 28PHYS211. BoK:NS,QR.

**T 28PHYS202. General Physics II.** 4 ug.cr. A survey of physics, using calculus, recommended for science and mathematics students. Prereq.: 28PHYS201. Coreq.: 28MATH262, 28PHYS212. BoK:NS,QR.

**T 28PHYS203. General Physics III.** 4 ug.cr. A survey of physics, using calculus, recommended for science and mathematics students. Prereq.: 28PHYS202. Coreq.: 28MATH263, 28PHYS213. BoK:NS,QR.

**T 28PHYS211. General Physics Laboratory I.** 1 ug.cr. Laboratory experiences to accompany the general physics course. Coreq.: 28PHYS201.

**T 28PHYS212. General Physics Laboratory II.** 1 ug.cr. Laboratory experiences to accompany the general physics course. Coreq.: 28PHYS202.

**T 28PHYS213. General Physics Laboratory III.** 1 ug.cr. Laboratory experiences to accompany the general physics course. Coreq.: 28PHYS203.

## Political Science

**T 28POL101. American Government: The American Dream vs The Present Public Situation I.** 3 ug.cr. Critical re-examination of American government — who benefits, who loses. Compares historical ideals of American democracy against present policies and their outcome. Asks what is responsible citizenship amidst present political challenges and problems. Prereq.: Qualification for 28ENGL101 or perm. of instr. BoK:SS.

**T 28POL102. American Government: The American Dream vs The Present Public Situation II.** 3 ug.cr. Critical re-examination of American government — who benefits, who loses. Compares historical ideals of American democracy against present policies and their outcome. Asks what is responsible citizenship amidst present political challenges and problems. Prereq.: Qualification for 28ENGL101 or perm. of instr. BoK:SS.

**T 28POL103. American Government: The American Dream vs The Present Public Situation.** 3 ug.cr. Critical re-examination of American government — who benefits, who loses. Compares historical ideals of American democracy against present policies and their outcome. Asks what is responsible citizenship amidst present political challenges and problems. Prereq.: Qualification for 28ENGL101 or perm. of instr. BoK:SS.

## Psychology

**T 28PSYC101. Introduction to Psychology I.** 3 ug.cr. This is the first quarter of a three-quarter course covering most of the basic aspects of psychology as applied to everyday life. Topics include: a history of psychology, research methods, how the brain and biology affect behavior, sensation and perception, intelligence, cognition (language and creativity), memory. BoK:SS.

**T 28PSYC102. Introduction to Psychology II.** 3 ug.cr. This is the second quarter of a three-quarter course covering most of the basic aspects of psychology as applied to everyday life. Topics include: life-span development, conditioning and learning, personality, psychological disorders and therapies. Prereq.: 28PSYC101. BoK:SS.

**T 28PSYC103. Introduction to Psychology III.** 3 ug.cr. This is the third quarter of a three-quarter course covering most of the basic aspects of psychology as applied to everyday life. Topics include: states of consciousness, motivation and emotion, social behavior, health/stress and coping, applied psychology, and industrial/organizational psychology, gender and sexuality. Prereq.: 28PSYC101. BoK:SS.

**T 28PSYC205. Human Development I: Childhood.** 3 ug.cr. Growth and development of the child from conception to adolescence. BoK:SS,DC.

**T 28PSYC206. Human Development II: Adolescence.** 3 ug.cr. Physical, psychological, and social development of the adolescent. Inheritance, learning, emotion, identity, and personality from adolescence to early adulthood. BoK:SS,DC.

**T 28PSYC207. Human Development III: Adulthood and Aging.** 3 ug.cr. Physical, sociological, psychological, and intellectual changes which occur from young adulthood until death. BoK:SS,DC.

**T 28PSYC241. Social Psychology.** 3 ug.cr. Analysis of factors affecting human social interaction, including aggression, developing relationships, determining the causes of behavior, sex differences, and ways of influencing others. Prereq.: 28PSYC101 or perm. of instr. BoK:SS.

**T 28PSYC247. Psychology of Adjustment.** 3 ug.cr. A survey of principles and findings as they apply to the development and maintenance of healthy, mature attitudes and behavior patterns. Prereq.: 28PSYC101 or perm. of instr. BoK:SS.

**T 28PSYC281. Organizational Behavior I: Interpersonal Relations.** 3 ug.cr. First of course sequence on human behavior in organizations. Focus is on individual interaction with others in the work world. Topics include self concept, personal communication, interaction patterns, and stress. BoK:SS.

**T 28PSYC282. Organizational Behavior II: Organizational and Group Processes.** 3 ug.cr. An exploration of the organizational bases of group behavior, including organization development and change, organizational communications, decision-making, and conflict management. Prereq.: 28PSYC281. BoK:SS.

**T 28PSYC341. Psychology of Personality.** 3 ug.cr. The important personality theories, personality development, methods of studying personality, and personality dynamics. Prereq.: 28PSYC102 or perm. of instr. BoK:SS.

## Sociology

**T 28SOC141. Introduction to Sociology I.** 3 ug.cr. An introduction to the sociological principles and perspectives for the analysis of the social character of human activities, particularly in contemporary society. BoK:SS,DC.

**T 28SOC142. Introduction to Sociology II.** 3 ug.cr. An examination of social structure, with emphasis on the organization of major social institutions, the relationship of humans to their environments, and social change. Prereq.: 28SOC141. BoK:SS,DC.

**T 28SOC143. Contemporary Social Issues.** 3 ug.cr. Discussion of selected social issues and problems of current concern within society. Prereq.: 28SOC141. BoK:SS,SE.

**T 28SOC285. Sociology of the Family.** 3 ug.cr. Analysis of contemporary patterns of marriage and family life, including examination of courtship, marriage and marital adjustment, childrearing, divorce, and alternatives to traditional family roles. Prereq.: 28SOC141 or perm. of instr. BoK:SS,SE.

## (17) UNIVERSITY COLLEGE

### Art History

**T 17ARTH231. History of Art I.** 3 ug.cr. Artistic achievements of the Ancient World, with emphasis on Egyptian, Near Eastern, Greek and Roman civilizations. Formal, expressive, and technical aspects of art and the historical content are explored. (15,000 B.C. - 4th c. A.D.) BoK:FA,HP.

**T 17ARTH232. History of Art II.** 3 ug.cr. Art and architecture of the Early Christian, Byzantine, Medieval and Renaissance periods. BoK:FA,HP.

**T 17ARTH233. History of Art III.** 3 ug.cr. Evolution of art and architecture from the Counter Reformation to the present, with emphasis on the Baroque, Neo-Classicism, Romanticism, Realism, Impressionism, Post Impressionism and leading 20th century movements. (17th century-present). BoK:FA,HP.

### Economics

**T 17ECON101. Principles of Economics I.** 3 ug.cr. Introduction to our economic system; supply and demand; pricing under competitive and noncompetitive market structures. BoK:SS.

**T 17ECON102. Principles of Economics II.** 3 ug.cr. Introduction to national product and national income, and to monetary and fiscal policies for stability and growth. Prereq.: 17ECON101. BoK:SS.

**T 17ECON103. Principles of Economics III.** 3 ug.cr. The application of economic principles of current economic issues and problems; labor in economics, international economics, and comparative economic systems. Prereq.: 17ECON102. BoK:SS,SE.

**T 17ECON275. Microeconomic Theory.** 4 ug.cr. The study of the economic behavior of individual units including consumers, firms and resource owners. Topics covered are: consumer choice and demand, the firm and production, pricing and output in the competitive model, monopoly, oligopoly, and monopolistic competition, and the pricing and employment of resources with perfect and imperfect competition. Prereq.: 17MATH226 and 17ECON102. BoK:SS,QR.

### English

**T 17ENGL101. English Composition I.** 3 ug.cr. The first quarter of a three-quarter writing sequence designed to make students proficient users of standard English. Upon completion of the sequence, students should have the ability to listen, speak, read and write critically and independently, avoiding errors in basic grammar, punctuation and spelling. Emphasis in 101 is on the essay with critical reading of short selections. Writing assignments will require unity, coherence and adequate development. Prereq.: Passing score on College placement exam or successful completion of 17ENGL099. BoK:EC-p.

**T 17ENGL102. English Composition II.** 3 ug.cr. Emphasis on the essay with critical reading of professional essays and short literary selections. The portfolio system of assessment continues. Prereq.: 17ENGL101. BoK:EC-p.

**T 17ENGL103. English Composition III.** 3 ug.cr. Emphasis on writing persuasive essays. Instruction in analysis of longer reading selections. To be awarded credit for 103, student's portfolios must be evaluated by the Language Arts Department as being illustrative of college-level work. Prereq.: 17ENGL102. BoK:EC-p.

**T 17ENGL241. Literature of the United States I.** 3 ug.cr. Using a multi-ethnic approach, this course examines some of the most interesting social, political, philosophical, and artistic literature of the pre-Civil War United States. Most of the issues addressed in this literature continue to be fundamental concerns in the contemporary United States. Prereq.: 17ENGL103 or equiv. BoK:LT.

**T 17ENGL242. Literature of the United States II.** 3 ug.cr. This course examines a wide variety of post-Civil War literature, exploring some of the many voices and genres that make up the multicultural American literary mosaic. Prereq.: 17ENGL103 or equiv. BoK:LT.

**T 17ENGL271. Themes in American Literature: Lifestyles.** 3 ug.cr. Nonconformists, the Individual vs. Society. An examination of various literary works that deal with social outsiders, individualists, and rebels who resist society's expectations, conformity, or group acceptability. Prereq.: 17ENGL103 or equiv. BoK:LT.

**T 17ENGL272. Themes in American Literature: Money, Work, and the American Dream.** 3 ug.cr. American authors' attitudes toward money and work and their relation to the American dream. Prereq.: 17ENGL103 or equiv. BoK:LT.

**T 17ENGL273. Themes in American Literature: Aggression, Violence and War.** 3 ug.cr. An examination of various literary works that deal with individual and/or group reaction to the emotional and psychological aspects of aggression, violence, and war. Prereq.: 17ENGL103 or equiv. BoK:LT.

**T 17ENGL274. Themes in American Literature: Gender Roles.** 3 ug.cr. American authors' treatments of the theme of male-female gender stereotyping. Prereq.: 17ENGL103 or equiv. BoK:LT.

**T 17ENGL275. Ethnic Literatures of the United States.** 3 ug.cr. An introduction to the literature of selected ethnic groups (Black, Native American, Appalachian, Chinese, Jewish, Latino, etc.). Students will study ethnic cultures and literary forms. Prereq.: 17ENGL103 or equiv. BoK:LT.

**T 17ENGL276. Women's Voices in American Literature.** 3 ug.cr. A study of women writers' commentary on the American Experience from the colonial period to the present. Prereq.: 17ENGL103 or equiv. BoK:LT.

**T 17ENGL279. The Female in American Literature.** 3 ug.cr. A study of contemporary male and female American authors with respect to their treatment of the female as a character. Prereq.: 17ENGL103 or equiv. BoK:LT.

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## 8 Transfer Module

**T 17ENGL281. Contemporary Short Story.** 3 ug.cr. Twentieth century thought and expression in the short story. Prereq.: 17ENGL103 or equiv. BoK:LT.

**T 17ENGL282. Themes in American Literature: The Family Unit, Stress or Success.** 3 ug.cr. An examination of various literary works that focus on family unit interactions as the arena for exploring the struggles, successes, and failures of the American experience. Prereq.: 17ENGL103 or equiv. BoK:LT.

**T 17ENGL283. Contemporary Novel.** 3 ug.cr. The approach of twentieth century novelists to problems of the present day. Prereq.: 17ENGL103 or equiv. BoK:LT.

**17ENGL284. Censorship in Literature and the Arts.** 3 ug.cr. Censored literature and other works of art examined in light of arguments for and against censorship. Prereq.: 17ENGL103 or equiv. BoK:LT.

**T 17ENGL285. Contemporary Drama.** 3 ug.cr. Twentieth century thought and expression in drama. Prereq.: 17ENGL103 or equiv. BoK:LT.

### History

**T 17HIST101. History of World Civilization I.** 3 ug.cr. A study of world civilizations in the Near East, Mediterranean, Europe, Asia, Africa and Mesamerica from prehistory to the 14th century. BoK:HP,DC.

**T 17HIST102. History of World Civilization II.** 3 ug.cr. The world from 1400 A.D. to 1776. Early modern global economy to the age of Atlantic revolution. BoK:HP,DC.

**T 17HIST103. History of World Civilization III.** 3 ug.cr. The modern world from 1776 A.D. to present, including Industrial Revolution, age of empire, nationalism, world wars, decolonization, post superpower wars to present. BoK:HP,DC.

**T 17HIST110. American History I: 1607 to 1840.** 3 ug.cr. A comprehensive study of life in N. America from prehistory through Colonial and early Federal periods. Addresses political, economic, social and intellectual development of nineteenth century society. BoK:HP.

**T 17HIST111. American History II: 1840 to 1914.** 3 ug.cr. A comprehensive study of American development from Abolitionism through the Civil War, industrial expansion, Indian clearance, immigration, and the Gilded Age to the Spanish American War. BoK:HP.

**T 17HIST112. American History III: 1914 to the Present.** 3 ug.cr. A comprehensive study of the growth of the American state and peoples from 1898 through world wars, depressions, domestic insurrection, economic expansions, and post super-power wars to the present. BoK:HP.

### Mathematics

**T 17MATH173. College Algebra I.** 3 ug.cr. Equations, inequalities, Cartesian coordinate system, graphs of polynomial functions. Prereq.: 17MATH134 or equiv. BoK:QR.

**T 17MATH174. College Algebra II.** 3 ug.cr. Rational functions, conic sections, exponential and logarithmic function, systems of equations and inequalities. Prereq.: 17MATH173. BoK:QR.

**T 17MATH225. Finite Mathematics and Calculus I.** 3 ug.cr. Operations with matrices, determinants. Linear programming. Probability. Prereq.: 17MATH174. BoK:QR.

**T 17MATH226. Finite Mathematics and Calculus II.** 3 ug.cr. Limits, continuity, derivatives and techniques for differentiation. Optimization using derivatives. Graphical techniques. Prereq.: 17MATH225. BoK:QR.

**T 17MATH227. Finite Mathematics and Calculus III.** 3 ug.cr. Derivatives of logarithmic and exponential functions. Definite and indefinite integrals. Partial derivatives, application of functions of several variables, solutions to first order differential equations. Prereq.: 17MATH226. BoK:Q

### Philosophy

**T 17PHIL101. Early Philosophy of Nature.** 3 ug.cr. Survey of ancient world views, our place in nature, and how we acquire knowledge. BoK:HU.

**T 17PHIL102. Philosophy of the Scientific Revolution.** 3 ug.cr. Development of the modern worldview. The impact of Copernicus, Galileo, Newton and others on our understanding of nature and society. BoK:HU.

**T 17PHIL103. Humanity and Technology.** 3 ug.cr. The impact of scientific knowledge and changing technology of our understanding of nature, culture, and the individual. BoK:HU.

**T 17PHIL105. Introduction to Formal Logic.** 3 ug.cr. An introduction to deductive logic methods and their applications. BoK:HU,QR.

**T 17PHIL172. Practical Logic.** 3 ug.cr. Identification analysis and evaluation of arguments. Skills of critical thinking and written communication will be developed. BoK:HU.

**T 17PHIL182. Contemporary Moral Issues.** 3 ug.cr. Philosophical and ethical issues underlying major controversies of the day: rights, freedom and punishment; sex, euthanasia, abortion, and others. BoK:HU,SE.

### Political Science

**T 17POL201. American Government and Politics I.** 3 ug.cr. After study of the constitutional and cultural basis of the American governmental system, emphasis will be on the public's involvement in the political system — political parties, interest groups, public opinion, voting, campaigns, elections. BoK:SS.

**T 17POL202. American Government and Politics II.** 3 ug.cr. A study of the Presidency, Congress, the judiciary, the bureaucracy and their policy-making roles. BoK:SS.

**T 17POL203. American Government and Politics III.** 3 ug.cr. A study of the U.S. government dealing with other nations and dealing, internally, with state government, as well as state governments' relations with their own citizens. BoK:SS.

### Psychology

**T 17PSYC151. Introduction to Psychology I Paired.** 3 ug.cr. The beginning course in psychology which covers History, Research, Biological topics, Sensation and perception, Memory, Intelligence, Cognition and Language. Coreq.: 17ORNT151. BoK:SS.

**T 17PSYC205. Child Development.** 3 ug.cr. Physical, psychological and social development of the adolescent. Inheritance, learning, emotion, and personality from infancy to adolescence are analyzed. Prereq.: 17PSYC142 or 17PSYC152. BoK:SS.

**T 17PSYC206. Adolescent Development.** 3 ug.cr. Physical, psychological, and social development of the adolescent. Inheritance, learning, emotions, identity, and personality from adolescence to early adulthood. Prereq.: 17PSYC142 or 17PSYC152. BoK:SS.

**T 17PSYC208. Gerontology.** 3 ug.cr. A survey of topics in gerontology: Biology of aging, physiology, psychology, sociology, and philosophy. Prereq.: 17PSYC142 or 17PSYC152. BoK:SS,SE.

### Sociology

**T 17SOC141. Introduction to Sociology I.** 3 ug.cr. A general survey of the basic concepts and theoretical perspectives underlying social organization. BoK:SS.

**T 17SOC142. Introduction to Sociology II.** 3 ug.cr. An examination of social institutions and the processes of sociocultural changes in contemporary society. Prereq.: 17SOC141. BoK:SS.

**T 17SOC271. Racial & Ethnic Groups in the U.S..** 3 ug.cr. An analysis of the theoretical framework of intergroup relations followed by a sociological examination of the various racial and ethnic groups which make up the American population. Prereq.: 17SOC141. BoK:SS,DC.

**T 17SOC274. Sociology of Conformity and Deviance.** 3 ug.cr. An examination of the causes, patterns, and problems related to social conformity and deviance. Prereq.: 17SOC141. BoK:SS.

**T 17SOC325. Deviance.** 3 ug.cr. Sociological perspectives on deviance and control, including examination of social causes and social reactions to deviance. Prereq.: 17SOC141. BoK:SS.

**T 17SOC373. Race in Modern Society.** 3 ug.cr. An analysis of the theoretical framework of intergroup relations followed by a sociological examination of the various racial and ethnic groups which make up the American population. Prereq.: 17SOC141. BoK:SS,DC.