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. Prerequisite: 32ECON286. BoK:SS.

Mathematics
T 32MATH178. 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 simultaneous equations and inequalities, matrices and determinants, sequences, series, binomial expansion. Prerequisite: 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. Prerequisite: 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. Prerequisite: 32MATH244. BoK:QR.

Physics
T 32PHYS102. Physics for Technology II. 3 ug.cr. Rotation, elasticity, vibration, waves, fluids, heat and thermodynamics. Prerequisite: 32PHYS101. 32PHYS111. BoK:QR.
T 32PHYS103. Physics for Technology III. 3-4 ug.cr. Electricity and magnetism, optics. Prerequisite: 32PHYS102. 32PHYS112. BoK:QR.

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) McM Chen COLLEGE OF ARTS AND SCIENCES

African American Studies
T 15AFAM235. Sociology of the Black Community. 3 ug.cr. Survey of Black cultural institutions including family, religion, music, and dance. 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:FL,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:FL,LT.

Anthropology
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. Prerequisite: 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.

Biochemistry
T 15BIO101. Biology. 3 ug.cr. The sequences Biology 101, 102, 103 taken concurrently with Biol. 111, 112, 113 fulfills the natural sciences requirement in Arts and Sciences as well as the beginning course requirement 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 organs; plant nutrition; nitrogen cycle. Prerequisite: 15BIO111. BoK:NS.
T 15BIO102. 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. Prerequisite: 15BIO101; Corequisite: 15BIO113. BoK:NS.
T 15BIO103. 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. Prerequisite: 15BIO102; Corequisite: 15BIO113. BoK:NS.
T 15BIO104. 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 15BIO105. 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 15BIO106. 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 15BIO460. 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. Prerequisite: 15BIO102, 15BIO112 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. Prerequisite: High school chemistry or 15CHEM104. Corequisites: 15CHEM111,12,13 if add'l work in chem BoK: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. Prerequisite: 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. Prerequisite: 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 course sequence. Corequisites: 15CHEM114,15,16 if any chemistry courses other than Gen. Chem. are planned. Prerequisite: 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. Prerequisite: 15CHEM105. Corequisites: 15CHEM114,15,16 if any chemistry courses other than Gen. Chem. are planned. BoK:NS.
T 15CHEM111. First-Year Chemistry Laboratory. 1 ucr. Experimental work including qualitative analysis, supplementary to Chem. 101,2,3. One laboratory period per week. Prerequisite: 15CHEM101.
T 15CHEM112. First-Year Chemistry Laboratory. 1 ucr. Experimental work including qualitative analysis, supplementary to Chem. 101,2,3. One Laboratory period per week. The second offering of a three- course sequence. Prerequisite: 15CHEM111. Corequisites: 15CHEM101,2,3.
T 15CHEM113. First-Year Chemistry Laboratory. 1 ucr. Experimental work including qualitative analysis, supplementary to Chem. 101,2,3. One Laboratory period per week. The third offering of a three- course sequence. Prerequisite: 15CHEM112. Corequisites: 15CHEM101,2,3.
T 15CHEM114. General Chemistry Laboratory I. 1 ucr. Experimental work supplementary to Chem. 104-5-6. One laboratory period per week. (Requirement of many programs.) Prerequisite: 15CHEM104.
T 15CHEM115. General Chemistry Laboratory II. 1 ucr. Experimental work supplementary to Chem. 104-5-6. One laboratory Science requirement in Arts and Sciences as well as the second offering of a three- course sequence. Prerequisite: 15CHEM114. Prerequisite: 15CHEM114.
T 15CHEM116. General Chemistry Laboratory III. 1 ug.cr. Experimental work supplementary to Chem. 104, 105, 106. 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, art forms. The second offering of 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 of 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


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-LL.

T 15ENGL208. American Writers. 3 ug.cr. Selected works in American literature from 1865 to 1915. BoK-LL.

T 15ENGL209. American Writers. 3 ug.cr. Selected works in American literature from 1865 to 1915. BoK-LL.


T 15ENGL216. World Literature II. 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-LL.

T 15ENGL217. World Literature III. 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-LL.

T 15ENGL231. Major British Writers. 3 ug.cr. Selected works in British literature from Beowulf to 1660. BoK-LL.

T 15ENGL232. Major British Writers. 3 ug.cr. Selected works in British literature from 1660 to 1800. BoK-LL.

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


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 sense of language. Prereq.: 15ENGL103. BoK-LL.

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 modern literary techniques. Offered alt. yrs. Prereq.: 15ENGL103. BoK-LL.

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-LL.


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 Querelles; 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-LL.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-LL.

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-LL.DC.


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-LL.

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

T 15ENGL310. American Fiction: 1800-1910. 3 ug.cr. The early realists and naturalists: selections from Twain, James, Crane, and others. BoK-LL.


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-LL.

T 15ENGL325. Shakespeare’s Plays. 3 ug.cr. A survey of Shakespeare’s major plays for the non-major. BoK-LL.

T 15ENGL326. Shakespeare II. 3 ug.cr. Major works of our time. BoK-LL.

T 15ENGL327. Shakespeare III. 3 ug.cr. The major tragedies, problem comedies, and romances. BoK-LL.


T 15ENGL335. History of the Novel. 3 ug.cr. Growth of the novel in social criticism and psychological depth; Bronte, Dickens, Eliot, Hardy, and others. BoK-LL.

T 15ENGL336. History of the Novel. 3 ug.cr. New directions for the novel in the 20th century; Conrad, Joyce, Lawrence, Woolf, and others. BoK-LL.

T 15ENGL337. 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-LL.

T 15ENGL338. 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-LL.

T 15ENGL339. 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-LL.


Geography

T 15GEOL101. Introduction to Physical Geography, 3 u.g.r. 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 15GEOL102. Introduction to Physical Geography, 3 u.g.r. See 15GEOL101. Landforms: Processes of formation and their significance, studied through maps and diagrams. BoK:NS,SE.

T 15GEOL103. Introduction to Physical Geography, 3 u.g.r. See 15GEOL101. The environment: Processes and plant geography, man's impact on the biosphere. BoK:NS,SE.

T 15GEOL104. Introduction to Human Geography, 3 u.g.r. Uses population distribution to demonstrate how geography as a social science defines and answers questions. A General Education Course. BoK:SS,DC.

T 15GEOL105. Introduction to Human Geography, 3 u.g.r. Introduction to geographic models used to describe, explain, and interpret political and cultural diversity. A General Education Course. BoK:SS,DC.

T 15GEOL111. Introduction to Physical Geography Laboratory, 2 u.g.r. Fullfills 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 15GEOL112. Introduction to Physical Geography Laboratory, 2 u.g.r. Fullfills 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 15GEOL113. Introduction to Physical Geography Laboratory, 2 u.g.r. 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 15GEOL101. Introduction to Geology, 3 u.g.r. 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 emergency preparedness is discussed. BoK:NS.

T 15GEOL102. Introduction to Geology, 3 u.g.r. This course is a continuation of Geology 101 and emphasizes concepts in physical geology at the introductory level. The major emphasis is on the origin, development and distribution of earth materials. BoK:NS.

T 15GEOL103. Introduction to Geology, 3 u.g.r. 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.: 15GEOL102. BoK:NS.

T 15GEOL111, Geology Laboratory, 3 u.g.r. Laboratory and field work with maps, rocks, minerals and fossils. BoK:NS.

T 15GEOL112, Geology Laboratory, 3 u.g.r. Laboratory and field work with maps, rocks, minerals and fossils. BoK:NS.

T 15GEOL113, Geology Laboratory, 3 u.g.r. Laboratory and field work with maps, rocks, minerals and fossils. This is the third offering of a three-part course sequence. BoK:NS.

T 15GEOL161. Oceanography-Planet Earth, 3 u.g.r. 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 15GEOL162. Evolution of Life: Planet Earth, 3 u.g.r. Examination of patterns and processes in the history and life on Earth, and the way in which scientists make these determinations. BoK:NS.

T 15GEOL163. Planet Earth: Reefs, 3 u.g.r. 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 u.g.r. In English. The origin of German institutions, social structures, philosophical and religious thought through the Baroque. BoK:HU,DU.

T 15GRMN172. Survey of German Culture II, 3 u.g.r. In English. German contributions to Western civilization from the Age of Enlightenment to 1819. BoK:HU,DU.

T 15GRMN173. Survey of German Culture III, 3 u.g.r. In English. A cultural view of Germany from World War I to the present. BoK:HU,DU.

T 15GRMN276. Jewish Culture in Contemporary Germany, 3 u.g.r. This course focuses on Jewish life and culture today’s Germany. BoK:HU,DU.

T 15GRMN304. The German-Speaking World Today, 3 u.g.r. (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,DU.

T 15GRMN505. The German-Speaking World Today, 3 u.g.r. (Modern Topics.) Germany, Austria, and Switzerland: their geography, social structure, political institutions, economics, and cultural achievements. The second offering in a three-part course sequence. BoK:HU,DU.

History

T 15HIST104. Medieval and Renaissance, 3 u.g.r. History of Europe and the Mediterranean world from 300 to 1500. BoK:HP.

T 15HIST105. Medieval and Renaissance, 3 u.g.r. History of Europe and the Mediterranean world from 300 to 1500. BoK:HP.

T 15HIST106. Medieval and Renaissance, 3 u.g.r. History of Europe and the Mediterranean world from 300 to 1500. BoK:HP.

T 15HIST110. American History to 1820, 3 u.g.r. A survey of American history from colonial times to 1820. BoK:HP.

T 15HIST111. American History 1820-1920, 3 u.g.r. A survey of American history from 1820 to 1920. BoK:HP.

T 15HIST112. American History Since 1920, 3 u.g.r. A survey of American history from 1920 to the present. BoK:HP.

T 15HIST130. World History I: Worlds Forming, 3 u.g.r. 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 u.g.r. The medieval period. BoK:HP,DC.

T 15HIST132. World History III: Worlds Interacting, 3 u.g.r. The Modern period. BoK:HP,DC.

T 15HIST151. History of Western Civilization, 3 u.g.r. 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 course. BoK:HP.

T 15HIST152. History of Western Civilization, 3 u.g.r. 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 course. BoK:HP.

T 15HIST153. History of Western Civilization, 3 u.g.r. 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 course. BoK:HP.

Judaic Studies

T 15JUDC127. History of Jewish Civilization, 3 u.g.r. Jewish civilization as interpreted through Jewish historical, religious, literary, and cultural developments, Biblical to rabbinic period. Fullfill AS history requirement. BoK:HP,DC.

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

T 15JUDC129. History of Jewish Civilization, 3 u.g.r. Jewish civilization as interpreted through Jewish historical, religious, literary and cultural developments 1750 to the present. BoK:HP,DU.

T 15JUDC135. Introduction to Judaism, 3 u.g.r. Introduction to basic concepts, beliefs and practices of Judaism as expressed through its classic literature. BoK:HU,DU.

Mathematics


T 15MATH225. Finite Math and Calculus I, 3 u.g.r. Functions, inequalities, functions, matrices, systems of linear equations and linear inequalities, sets, counting, probability. Inference: Inference for proportions, two-sample inference, two-way tables and Chi Square, one-way analysis of variance (ANOVA), inference for regression. Prereq.: 15MATH262. BoK:QR.

T 15MATH226. Finite Math and Calculus II, 3 u.g.r. 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 u.g.r. Functions, limits, continuity, differentiation, the definite integral, area, functions of two variables, partial derivatives, maxima and minima, Lagrange multipliers. Prereq.: 15MATH262. BoK:QR.

T 15MATH261. Calculus and Analytic Geometry I, 5 u.g.r. This course covers functions, limits and continuity, derivatives, applications of the derivative, the integral. BoK:QR.

T 15MATH262. Calculus and Analytic Geometry II, 5 u.g.r. Course covers the integral, inverse functions, techniques of integration, applications of the integral. Prereq.: 15MATH261. BoK:QR.
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 introduction 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 15WMSST298. 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 Guerillieres, Didion, Play It As It Lays; LeGuin. The Dispossessed poetry by Judy Grahn; journals by May Sarton, Anaïs Nin. Offered alt. yrs. Prereq.: 15ENG1103. BoK:LT,DC.

T 15WMSST313. 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.


(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,HP.

T 16HILT112. Music History and Literature II. 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,HP.

T 16HILT113. Music History and Literature II. 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,HP.

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,HP.

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,HP.

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,HP.

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

Architecture and Interior Design
T 23ARTA217. 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 23ARTA218. 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 23ARTA219. 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 23ARTA2372. 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 gentleman architects Thomas Jefferson, Charles Bulfinch, and B. H. Latrobe. Weekend field trips will be available. BoK:FA,HP.

T 23ARTA238. 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 23ARTA239. 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 23ARTA288. Contemporary Art. 3 ug.cr. Study of art forms which have emerged since 1945. BoK:FA,HP.

T 23ARTA289. Symbolist Movement in Art. 3 ug.cr. Themes and theories of Symbolism. Emphasis on leading turn-of-the-century artists such as Gaugin, 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,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,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,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:FA,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 18PE284. 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 28ARTH273. Modern European Art. 3 ug.cr. The great painters of the 19th century, including David, Delacroix, Ingres, Courbet, Manet, Monet, Renoir, Degas, Gaugin, 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: Rembrandt, Velazquez, Rubens, Van Dyck, 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.

Biography
T 28BIO101. 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:BS.


T 28BIO103. Biology III. 5 ug.cr. Continuation of Biology II emphasizing plant and animal anatomy, function and diversity, and ecology of populations and communities. Prereq.: 28BIO102. BoK:BS.


T 28BIO105. Introduction to Biology II. 3 ug.cr. See 28BIO104.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>BoK:</th>
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<tbody>
<tr>
<td>T 28BIO106</td>
<td>Introduction to Biology III</td>
<td>3 ug.cr. See 28BIO104.</td>
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<tr>
<td>T 28CHEM101</td>
<td>First Year Chemistry I</td>
<td>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 thermodynamics. Coreq.: 28CHEM111. Prereq.: C or better in H.S. Chem.; qualification for 28ENGL101 and 28MATH173. BoK:NS,QR.</td>
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<tr>
<td>T 28CHEM103</td>
<td>First Year Chemistry III</td>
<td>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.</td>
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<tr>
<td>T 28CHEM104</td>
<td>General Chemistry I</td>
<td>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 &quot;C&quot; or better. BoK:NS.</td>
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<tr>
<td>T 28CHEM105</td>
<td>General Chemistry II</td>
<td>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.</td>
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<tr>
<td>T 28CHEM106</td>
<td>General Chemistry III</td>
<td>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.</td>
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<tr>
<td>T 28CHEM111</td>
<td>First Year Chemistry Laboratory I</td>
<td>1 ug.cr. Three hours per week. Laboratory to accompany 28CHEM101. Coreq.: 28CHEM101.</td>
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<tr>
<td>T 28CHEM112</td>
<td>First Year Chemistry Laboratory II</td>
<td>1 ug.cr. Three hours per week. Laboratory to accompany 28CHEM111. Coreq.: 28CHEM102.</td>
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<tr>
<td>T 28CHEM113</td>
<td>First Year Chemistry Laboratory III</td>
<td>1 ug.cr. Three hours per week. Laboratory to accompany 28CHEM112. Coreq.: 28CHEM103.</td>
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<tr>
<td>T 28ENGL207</td>
<td>American Writers I</td>
<td>3 ug.cr. Selected works in American literature from the Colonial period to 1865. BoK:LT.</td>
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<tr>
<td>T 28ENGL208</td>
<td>American Writers II</td>
<td>3 ug.cr. Selected works in American literature from 1865 to 1930. BoK:LT.</td>
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<tr>
<td>T 28GEOG123</td>
<td>World Regional Geography: The Americas</td>
<td>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.</td>
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<tr>
<td>T 28GEOG124</td>
<td>World Regional Geography: Europe</td>
<td>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.</td>
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<tr>
<td>T 28HIST110</td>
<td>American History I: American History to 1820</td>
<td>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.</td>
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<tr>
<td>T 28HIST112</td>
<td>American History III: 1920 to the Present</td>
<td>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.</td>
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<tr>
<td>T 28HIST113</td>
<td>Foundations of Western Civilization I</td>
<td>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.</td>
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<tr>
<td>T 28HIST114</td>
<td>Foundations of Western Civilization II</td>
<td>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.</td>
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<tr>
<td>T 28PHYS101</td>
<td>College Physics I</td>
<td>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.</td>
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<tr>
<td>T 28PHYS104</td>
<td>Introduction to Physics I</td>
<td>3-4 ug.cr. Lectures on fundamental problems in physics supplemented by demonstrations and problems. Prereq.: 28MATH134 or equiv. BoK:NS,QR.</td>
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<tr>
<td>T 28PHYS112</td>
<td>College Physics Laboratory II</td>
<td>1 ug.cr. A two-hour laboratory each week accompanying College Physics. Coreq.: 28PHYS102.</td>
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<tr>
<td>T 28PHYS113</td>
<td>College Physics Laboratory III</td>
<td>1 ug.cr. A two-hour laboratory each week accompanying College Physics. Coreq.: 28PHYS103.</td>
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</table>
Political Science

Psychology
T 28PSYC101. Introduction to Psychology I 3 ug.cr. This is the first quarter of a three-quarter course sequence covering most of the basic aspects of psychology as applied to everyday life. Topics include: 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 sequence 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 sequence covering most of the basic aspects of psychology as applied to everyday life. Topics include: the study of emotions, aggression, the social psychology of aggression, the social psychology of attraction and the social psychology of relationships. 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 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 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 28PHYS211. General Physics Laboratory I 1 ug.cr. Laboratory experiences to accompany the general physics course. Conreq.: 28PHYS201.
T 28PHYS212. General Physics Laboratory II 1 ug.cr. Laboratory experiences to accompany the general physics course. Conreq.: 28PHYS202.
T 28PHYS213. General Physics Laboratory III 1 ug.cr. Laboratory experiences to accompany the general physics course. Conreq.: 28PHYS203.

(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 context are explored. (15,000 B.C. - 4th c. A.D.) 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 market conditions. BoK:SS,QR.
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 analysis 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.: 17MATH262 and 17ECON102. BoK:SS,GR.

English
T 17ENG101. 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 17ENG099. BoK:EC-P.
T 17ENG103. English Composition III 3 ug.cr. Emphasis on writing persuasive essays. Instruction in analysis of longer readings. Selections are 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.: 17ENG102. BoK:EC-P.
T 17ENG241. 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 discussed in this literature course will be fundamental concerns in the contemporary United States. Prereq.: 17ENG103 or equiv. BoK:LT.
T 17ENG242. 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.: 17ENG103 or equiv. BoK:LT.
T 17ENG271. Themes in American Literature: Lifestyles 3 ug.cr. Nonconformists, the Individual vs. Society. An examination of various literary works that deal with social outsiders, idealists, and rebels who resist society's expectations, conformity, or group acceptability. Prereq.: 17ENG103 or equiv. BoK:LT.
T 17ENG273. 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.: 17ENG103 or equiv. BoK:LT.
T 17ENG274. Themes in American Literature: Gender Roles 3 ug.cr. American authors' treatments of the theme of male/female gender stereotyping. Prereq.: 17ENG103 or equiv. BoK:LT.
T 17ENG275. 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.: 17ENG103 or equiv. BoK:LT.
T 17ENG276. 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.: 17ENG103 or equiv. BoK:LT.
T 17ENG279. 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.: 17ENG103 or equiv. BoK:LT.
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<th>Course Code</th>
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<th>Prerequisites</th>
<th>BoK:</th>
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<tbody>
<tr>
<td>T 17MATH173</td>
<td>College Algebra I</td>
<td>3</td>
<td>Equations, inequalities, Cartesian coordinate system, graphs of polynomial functions.</td>
<td>17MATH134</td>
<td>QR,</td>
</tr>
<tr>
<td>T 17MATH174</td>
<td>College Algebra II</td>
<td>3</td>
<td>Rational functions, conic sections, exponential and logarithmic function, systems of equations and inequalities.</td>
<td>17MATH173</td>
<td>QR,</td>
</tr>
<tr>
<td>T 17MATH225</td>
<td>Finite Mathematics and Calculus I</td>
<td>3</td>
<td>Operations with matrices, determinants. Linear programming. Probability.</td>
<td>17MATH174</td>
<td>QR,</td>
</tr>
<tr>
<td>T 17MATH226</td>
<td>Finite Mathematics and Calculus II</td>
<td>3</td>
<td>Limits, continuity, derivatives and techniques for differentiation. Optimization using derivatives. Graphical techniques.</td>
<td>17MATH225</td>
<td>QR,</td>
</tr>
<tr>
<td>T 17MATH227</td>
<td>Finite Mathematics and Calculus III</td>
<td>3</td>
<td>Derivatives of logarithmic and exponential functions. Derivatives and indefinite integrals. Partial derivatives. Application of functions of several variables, solutions to first order differential equations.</td>
<td>17MATH226</td>
<td>QR,</td>
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### Philosophy

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<th>Course Code</th>
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<tbody>
<tr>
<td>T 17PHIL101</td>
<td>Early Philosophy of Nature</td>
<td>3</td>
<td>Survey of ancient world views, our place in nature, and how we acquire knowledge.</td>
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<tr>
<td>T 17PHIL102</td>
<td>Philosophy of the Scientific Revolution</td>
<td>3</td>
<td>Development of the modern worldview. The impact of Copernicus, Galileo, Newton and others on our understanding of nature and society.</td>
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<tr>
<td>T 17PHIL103</td>
<td>Humanity and Technology</td>
<td>3</td>
<td>The impact of scientific knowledge and changing technology of our understanding of nature, culture, and the individual.</td>
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<tr>
<td>T 17PHIL105</td>
<td>Introduction to Formal Logic</td>
<td>3</td>
<td>An introduction to deductive logic methods and their applications.</td>
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<tr>
<td>T 17PHIL172</td>
<td>Practical Logic</td>
<td>3</td>
<td>Identification analysis and evaluation of arguments. Skills of critical thinking and written communication will be developed.</td>
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<tr>
<td>T 17PHIL182</td>
<td>Contemporary Moral Issues</td>
<td>3</td>
<td>Philosophical and ethical issues underlying major controversies of the day: rights, freedom and punishment; sex, euthanasia, abortion, and others.</td>
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### Political Science

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<th>Course Code</th>
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<th>Prerequisites</th>
<th>BoK:</th>
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<tbody>
<tr>
<td>T 17POL201</td>
<td>American Government and Politics I</td>
<td>3</td>
<td>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.</td>
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<tr>
<td>T 17POL202</td>
<td>American Government and Politics II</td>
<td>3</td>
<td>A study of the Presidency, Congress, the judiciary, the bureaucracy and their policy-making roles.</td>
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<tr>
<td>T 17POL203</td>
<td>American Government and Politics III</td>
<td>3</td>
<td>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.</td>
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