



Lower Division GE Course Descriptions

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ARTH 210 Introduction to Art History (3-4)

A lecture course covering painting, sculpture, and architecture of prehistoric and primitive cultures, and ancient, classical and medieval civilizations. Satisfies GE, category C1 (Fine Arts).

ARTH 211 Introduction to Art History (3-4)

A lecture course covering painting, sculpture, and architecture from the Renaissance to the present with a global perspective. Satisfies GE, category C1 (Fine Arts).

ARTH 270A Survey of South and Southeast Asian Art (3-4)

A general survey of the arts and cultures of South and Southeast Asia, including India, Thailand, Indonesia, Cambodia, and Myanmar, from prehistoric periods to the present. Satisfies GE, category C1 (Fine Arts).

ARTH 270B Survey of Chinese and Japanese Asian Art (3-4)

A general survey of the arts and cultures of China and Japan from prehistoric periods to the present. Satisfies GE, category C1 (Fine Arts).

ASTR 100 Descriptive Astronomy (3) / Fall, Spring

Lecture, 3 hours. Historic astronomy, Newton's Laws, gravitation, atomic structure, light, and telescopes. The solar system, space flight, stars and stellar evolution, interstellar matter, star clusters, galaxies, the universe. A survey designed primarily for non-science majors. Satisfies GE, category B1 or B3 (Physical Sciences).

ASTR 231 Introductory Observational Astronomy (2) / Fall

Lecture, 1 hour; laboratory, 3 hours. Principles of astronomical measurement techniques with field and laboratory studies of astronomical objects. Identification of constellations, astronomical coordinates, use of the telescope, techniques in imaging, photometry, and spectroscopy. Satisfies GE, category B1 or B3 (Physical Sciences) and GE laboratory requirements. Prerequisite: previous or concurrent enrollment in ASTR 100.

AMCS 200 Issues on Race, Ethnicity, and Multiculturalism (3) Fall, Spring

Students practice the techniques of critical reading and thinking, of expository writing, and of oral expression through an in-depth examination of race, ethnicity and multiculturalism and its impact on American cultural, political, and social institutions. They examine the principles of thinking, speaking, and writing with a view to the multitude of purposes for which these activities are crucial. Satisfies GE, category AI (Written and Oral Analysis). Prerequisites: completion of GE categories A2 and A3.

AMCS 201 Introduction to Biological Anthropology (3) Fall, Spring

An introduction to the evolutionary biology of human and nonhuman primates; evolutionary perspectives on form and function, behavior, population, and social structure. Focused on reconstructing human evolution and explaining human adaptations. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Completion of, or concurrent enrollment in, BIOL 115 is recommended. CAN ANTH 2.

ANTH 203 Introduction to Cultural Anthropology (3) Fall, Spring

Examination of the anthropological approach to the study of human behavior. Exploration of human dependence on learned, socially transmitted behavior through consideration of ways of life in a broad range of societies. Satisfies GE, category D1 (Individual and Society). CAN ANTH 4. Note: Upper-division standing is a prerequisite for 300- level and 400-level courses.

AMCS 255 Ethnicity in the Humanities (3) / Fall, Spring

A general survey of the major artistic and expressive developments in the United States with reference to native ethnic minority populations. This course satisfies one of the core requirements of the AMCS major. May be taught with a focus on California experience.

BIOL 115 An Introduction to Biology (3) / Fall, Spring

Lecture, 3 hours. The unifying concepts of biology. Topics include the chemical and physical basis of life; cellular structure and function; molecular and Mendelian genetics; reproduction, development, structure and function of representative plants and animals; and evolution and ecology. Satisfies GE, category B2 (Biological Sciences). Not applicable to the biology major.

BIOL 121 Diversity, Structure and Function (4) Fall, Spring

Lecture, 3 hours; laboratory 3 hours. First in three-semester series required for biology majors. Introduces the extraordinary diversity of life and evolutionary relationships between groups of organisms, and compares body plans. For biology majors, satisfies GE, categories B2

BIOL 122 Genetics, Evolution and Ecology (4) / Fall, Spring

Lecture, 3 hours; laboratory 3 hours. Second in three-semester series required for biology majors. Introduces mechanism of inheritance, evolution, and ecology. Recent advances in understanding processes underlying ecological and evolutionary relationships will be emphasized. For biology majors, satisfies GE, categories B2 or B3. May be taken before BIOL 121.

BIOL 123 Molecular and Cell Biology (4) / Fall, Spring

Lecture, 3 hours; laboratory 3 hours. Third in three-semester series required for biology majors. Introduction to cell and molecular biology, with emphasis on molecular processes, cellular physiology, and regulatory mechanisms. For biology majors, satisfies GE, categories B2 or B3. Prerequisites: BIOL 121 and 122 or consent of instructor and CHEM 115AB/116AB. Concurrent or prior enrollment in CHEM 335A recommended.

BIOL 115L Introduction to Biology Laboratory (1) / Fall, Spring

Laboratory, 3 hours. Laboratory work in biology, which includes the following: artificial and natural ecosystems; cellular structure and function; cell division; Mendelian genetics; and the biology of organisms. Satisfies GE laboratory requirement. Prerequisite: previous or concurrent enrollment in BIOL 115. Not applicable to the biology major.

BIOL 220 Human Anatomy (4) / Fall, Spring

Lecture, 3 hours; laboratory, 3 hours. Survey of the body systems. Designed for pursuing careers in the allied health professions. Satisfies GE, category B3 and GE laboratory requirement. Prerequisite: BIOL 115 or 121/122.

BIOL 224 Human Physiology (4) / Fall, Spring

Lecture, 3 hours; laboratory, 3 hours. An integrated examination of the human body as an efficient system maintained by a complex of interacting, homeostatic mechanisms. Includes fundamental principles of function of major organ systems. Designed for those pursuing careers in the allied health professions. Satisfies GE, category B3 and GE laboratory requirement. Prerequisites: BIOL 115 or 121/122 and CHEM 115AB/116AB or 105AB.

CALS 219 Chicano/Latino Identity and Heritage (3) / Every second semester

A survey of the Chicano and Latino experience in the United States. The course serves as an introduction to Chicano and Latino studies through the social sciences in order to explain the individual's status and place within the group and society. This includes how Chicano and Latinos have adapted to the various cultural, social, economic, and political elements of U.S. society as compared to other groups. Satisfies ethnic studies requirement in GE, category D1 (Individual and Society).

CALS 220 Chicano/Latino Arts and Literature (3-4) / Fall, Spring

A survey of the humanities (arts and letters) found in Chicano/Latino cultures. Introduction to traditional and contemporary literature, drama, cinema, art, music, and dance forms found in the Spanish-speaking communities of the southwestern United States and their related heritages. Satisfies ethnic studies in GE, category C4 (Comparative Perspectives).

CHEM 101 Chemistry and Society: Selected Topics (3) / Fall, Spring

Lecture, 3 hours. A descriptive, non-mathematical course emphasizing aspects of the interaction of chemistry and society. In addition to fundamental concepts in chemistry, individual sections of the course will cover selected topics. Examples of topics are: introductory wine chemistry; chemistry of the natural environment, and society's impact on that environment. Satisfies GE, category B1 (Physical Sciences).

CHEM 105AB Elements of General, Organic and Biochemistry (4, 4) / A, Fall; B, Spring

Lecture, 3 hours; laboratory, 3 hours. A survey of the principles of chemistry, with emphasis placed on those that apply to living organisms. The course is designed for students in nursing and majors that do not require further courses in chemistry. Course is not a prerequisite for any chemistry course. Satisfies GE, category B1 (Physical Sciences) and GE laboratory requirement.

CHEM 115AB General Chemistry (5, 5) / Both 115A and 115B offered Fall, Spring

Lecture, 3 hours; laboratory 3 hours. General principles of chemistry selected from the areas of biochemistry, analytical, inorganic, organic, and physical chemistry. This course is designed for science majors and students taking pre-professional curricula. Satisfies GE, category B1 (Physical Sciences). Prerequisites: high school chemistry and placement into GE Math, or consent of instructor. Corequisite: CHEM 116AB. CAN CHEM 2 and 4

CHEM 102 Toxicology, Food and Chemistry (3) / Fall, Spring

Lecture, 2 hours; laboratory, 3 hours. A non-mathematical course in introductory chemistry, toxicology, food, and nutrition. Students will investigate the acute and chronic toxicity of chemical substances, such as PCB, dioxin, sugar, lead, and saccharin. The students will learn basic chemistry and biochemistry that will enable them to interpret controversial data on foods, drugs, and toxins that are a part of daily life. The laboratory will consist of experiments covering chemical principles and phenomena discussed in the lecture. Satisfies GE, category B1 (Physical Sciences) and GE laboratory requirement.

CJA 201 Criminal Justice and Public Policy (3) / Fall, Spring

A systematic analysis of the effectiveness and influence of criminal justice policy and practice throughout the criminal justice system. The focus is on the development and implementation of crime control policy. Satisfies GE, category D1 (Individual and Society). CJA majors should take CJA 201C concurrently.

CS 101 Introduction to Computers and Computing (3) / Fall, Spring

Lecture, 2 hours; laboratory, 2 hours. Topics include computer types, history of computing, computer organizations, survey of computer languages, program development, computer applications, networking, and computers in society. Weekly hands-on experience with personal computers. Not applicable to the CS major. Recommended for all students. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences).

CS 115 Programming I (4) / Fall, Spring

Lecture, 3 hours; laboratory, 3 hours. An overview of computer organization; arithmetic and logical expressions, decision and iteration, simple I/O; subprograms; principles of good programming style, readability, documentation, structured programming concepts; top-down design and refinements; techniques of debugging and testing. Use of the above concepts will be implemented in a standard high-level programming language. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). Prerequisite: GE math eligibility or consent of instructor.

ECON 201A Introduction to Macroeconomics (4) / Fall, Spring

An examination of the basic characteristics of the American economy and the principles that determine its performance. Emphasis is given to those factors that determine the total level of production, employment, prices, interest rates, inflation, and recession. Satisfies GE, category D5 (Contemporary International Perspectives). CAN ECON 2.

ENG 101 Expository Writing and Analytical Reading (3) / Fall, Spring

Study and practice in the expression of facts and ideas; principles of investigation, of organization, and of effective writing style, with emphasis upon expository writing and upon developing analytical reading ability. Satisfies GE, category A2 (Fundamentals of Communication). Prerequisite: completion of the English Placement Test (EPT). CAN ENGL 2.

ENG 200 California Cultural Analysis (3)

Within the context of readings related to California history and culture and their role in shaping contemporary California life, students practice the techniques of expository writing, oral expression, and reading and thinking critically. Satisfies GE, category A1. Prerequisite: completion of GE categories A2 and A3.

ENG 201 Written and Oral Discourse Studies (3) / Fall, Spring

A course in analysis and production of written and oral discourse appropriate to a variety of disciplines and rhetorical situations, with emphasis on methods of critiquing, argumentation and cross-disciplinary discourse problems and challenges. Prerequisites: completion of GE areas A2 and A3. Satisfies GE, category A1.

ENGL 214 Literature of the World (3) / Fall, Spring

An introduction to the study of literature. Masterworks drawn from a worldwide range of cultures and historical periods will provide the basis for discussion. Emphasis will be placed on written analysis of literary form and meaning. Satisfies GE, category C2 (World Literature). Prerequisite: ENGL 101.

ENGL 215 Introduction to California Literature (3)

A survey of California literature. Works will be drawn from a range of California ethnic and cultural traditions. Emphasis will be placed on written analysis of literary form and meaning. Satisfies GE, category C2 (World Literature).

ENGL 280 Introduction to California Cultural Studies (3) Spring

Introduction to California culture studies and its multiethnic, interdisciplinary and multi-disciplinary perspectives, tasks, and methods. Includes the study of California regionalisms and a range of topics from geology, philosophy, and art. Fieldwork and field trips to sites of historical and cultural interest required. Fulfills GE requirement in area C4.

ENSP 200 Global Environmental Issues (3) / Fall, Spring

Lecture/discussion, 3 hours. An introduction to environmental studies and planning, including: humans in relation to the global ecosystem; an overview of problems of energy use, pollution, resource depletion, population growth, food supply, urbanization, climate change and biodiversity and the search for solutions and future prospects. Satisfies GE, category D5 (Contemporary International Perspectives). Prerequisite or corequisite: enrollment in ENGL 101 or PHIL 101.

FL 214 Introduction to World Literature (3)

(Foreign Literatures in English) Introduction to selected works of world literature from Asia, Africa, Europe, North America, Latin America and Mexico, and from the classic literatures of Greece and Rome. Background lectures on literature, literary genres, and the different cultural histories will be given. Basic techniques of reading, analysis, and composition will be emphasized. Satisfies GE, category C2 (World Literature). Prerequisite: ENGL 101.

FR 201 Third Semester French (4) Fall

An in-depth review of fundamentals and an introduction to more sophisticated grammatical patterns. Testing (includes cultural knowledge) of speaking and listening skills at the intermediate-mid levels, reading and writing at the intermediate-high levels. Requires concurrent enrollment in lab, FREN 201L. Prerequisite: FREN 102 or by examination.

FR 202 Oral French (4) Spring

Required of majors. Extensive use of oral group activities, use of periodicals and listening comprehension through video, film, tapes. Practical work in phonetics and intonation. Speaking and listening competence at advanced-low level. Prerequisite: FREN 201 or by examination.

NOTE: FOREIGN LANGUAGE COURSE OPTIONS

A first year course may be selected if the student has met the high school subject requirement (2 years) in a different language. A first year course may also be selected if the student has completed one year of a different foreign language at the college level.

GEOG 203 Cultural Geography (3)

A study of the interrelationships between man and the physical environment. Attention is focused on man's role in changing the face of the earth, and on the manner in which the cultures of peoples have influenced their utilization of the environment. Diverse theories of man-environment relationships are discussed. Satisfies GE, category D2 (World History and Civilization). CAN GEOG 4.

GEOG 204 Physical Geography (4)

An integrated study of the physical environment, focusing on the processes and relationships between the four spheres: the atmosphere, biosphere, hydrosphere, and lithosphere. Major topics include global and regional patterns of climate and weather, soils, distribution of plants and animals on earth, and erosional and depositional processes that create landforms on the earth's surface. Also explored are possible links between human activities and changes in climate and vegetation patterns and dominant landform processes. Field trips and hands-on lab exercises included. Satisfies GE, category B3 (Specific Emphasis in Natural Sciences). CAN GEOG 2.

GEOL 102 Our Dynamic Earth: An Introduction to Geology (3) / Fall, Spring

Lecture, 2 hours; laboratory, 3 hours. A study of the minerals, rocks and landforms that make up our earth in the context of the dynamic forces that form them. Emphasis on local geology, including earthquakes and other environmental aspects. Laboratory study of minerals, rocks and maps. Required one-day weekend field trip. Fee required. Satisfies GE, category B1 (Physical Sciences) and GE laboratory requirements.

GEOL 105 The Age of Dinosaurs (3) / Fall, Spring

Lecture, 3 hours. The life and death of dinosaurs as evidenced by the fossil record will be studied to show how geology and biology combine in the discipline of paleontology. The evolution of dinosaurs over a 150 million-year time span sets the stage to investigate several interesting and ongoing controversies surrounding dinosaurs, including: why dinosaurs became extinct, the metabolism of dinosaurs, and the relationship between birds and dinosaurs. Satisfies GE, category B1 (Physical Sciences)

GEOL 110 Natural Disasters (3) / Fall, Spring

A course to examine the interaction between natural processes and human activities and the often costly and fatal results. Course emphasis will be on the principles underlying natural disasters such as earthquakes, volcanic eruptions, landslides, floods, severe weather, coastal processes, asteroid impacts, fires, great dyings, and population growth. Many examples will be drawn from the northern California area. Extensive internet work for current information. Course content may vary with instructor. Satisfies GE, category B3 (Physical Sciences, Specific Emphasis).

GEOL 120 Regional Field Geology (3) / Spring

Lecture, 1 hour; 10-day required field trip. Field study of rocks, minerals and landforms, and the processes that form them. A 10-day field trip to the Death Valley area is taken during spring vacation. Not intended for geology majors. Fee required. Satisfies GE, category B3 (Physical Sciences, Specific Emphasis) and laboratory requirements. Prerequisites: GEOL 102 or concurrent enrollment; students must be in good physical condition.

GER 201 Intermediate German (4) Fall

Review and elaboration of GER 101-102, supplemented by selected readings in such areas as philosophy, literature, art, music, history, science, and popular culture. Must be taken concurrently with GER 201L.

GER 202 Intermediate German (4) Spring

Continuation of the review, reading, and discussion program begun in GER 201, supplemented by a regular schedule of written work. By the end of GER 202, students' mastery of German should enable them to earn the 'Zertifikat Deutsch.' Must be taken concurrently with GER 202L.

NOTE: FOREIGN LANGUAGE COURSE OPTIONS

A first year course may be selected if the student has met the high school subject requirement (2 years) in a different language. A first year course may also be selected if the student has completed one year of a different foreign language at the college level.

GLBL Written and Oral Analysis-Global Studies: GLBL 200 (3)

Students practice the techniques of critical reading and thinking, of expository writing, and of oral expression. They develop and apply these skills through introductory study of a broad range of globally relevant issues. Satisfies GE, Category A1 (Written and Oral Analysis). Prerequisites: completion of GE areas A2 and A3.

HIST 201 Foundations of World Civilization (3) / Fall, Spring

An introduction to the early, classical and medieval civilizations that have most influenced the modern world. Developments (from prehistory to 1500 CE) include the Eastern traditions of India, China and Japan; the world of Judaism, Christianity and Islam; the classical Mediterranean civilizations; tropical Africa; and the medieval and Renaissance cultures of the emerging West. Satisfies part of the Social Sciences Single Subject Waiver Program. Required of all history majors. Satisfies GE, category D2 (World History and Civilization). Prerequisite: ENGL 101. CAN HIST 2.

HIST 202 Development of the Modern World (3) / Fall, Spring

An introduction to modern and contemporary history from 1500 CE to the present. Developments include the impact of Western expansion on the Americas, Africa and Asia; the reaction of non-Western people to Western expansion; the growth of nationalism and the national state; the industrial and political revolutions of the 18th and 19th centuries; World Wars I and II; decolonization, the emergence of the superpowers and the end of the Cold War. Required of all history majors. Satisfies part of the Social Sciences Single Subject Waiver Program. Satisfies GE, category D2 (World History and Civilization). Prerequisite: ENGL 101. CAN HIST 4.

HIST 241 History of the Americas to Independence (3)

A comparison of the English, Spanish and Portuguese colonies in America, from the conquest to independence. Topics include: Native Americans, European background, colonial government, religion, economic policies, social relations, slavery, art and literature, independence movements, and nation building. Satisfies GE, category D3.

HIST 242 History of the Americas Since Independence (3)

A comparison of the development of the United States after independence with that of Latin America. Topics include: colonial legacies, political leadership, expansion and conflict, regionalism, economic development, reform and revolution, church and state, race relations, education and inter-American relations. Satisfies GE, category D3.

HIST 251 History of the United States to 1877 (3) / Fall, Spring

A general survey of the major developments in U.S. history from the European discovery and colonization of the Western Hemisphere through Reconstruction. Required of all history majors. Satisfies GE, category D3 (U.S. History), and the state code requirement in history. Satisfies part of the Social Science Single Subject Waiver Program. Prerequisite: ENGL 101. CAN HIST 8.

HIST 252 History of the United States Since 1865 (3) / Fall, Spring

A general survey of the major developments in U.S. history from the end of Reconstruction to the present day. Satisfies GE, category D3 (U.S. History) and the state code requirement in history. Satisfies part of the Social Science Single Subject Waiver Program. Prerequisite: ENGL 101. CAN HIST 10.

HUMS 200 Written and Oral Analysis (3)

Students practice the techniques of critical reading and thinking, of expository writing, and of oral expression. They examine the principles of thinking, speaking, and writing, with a view to the multitude of purposes for which these activities are crucial. Satisfies GE, category A1 (Written and Oral Analysis). Prerequisites: completion of GE categories A2 and A3.

KIN 217 Personal fitness & Wellness (3) / Fall, Spring, Summer

Designed to introduce the concepts and practices involved in creating a personal life-long fitness and wellness program. General health topics will be emphasized, specifically cardiovascular fitness, nutrition, stress management, disease prevention, and current health trends and topics. Students will develop personal action plans for enhancing personal health and well-being.

LING 200 Introduction to Linguistic Studies (3) / Fall, Spring

The nature and structure of natural language; language and the mind; child language acquisition; role and function of language in the context of personal and group interactions and identities; language and other communication systems in culture and society; how language changes; using the skills and insights afforded by the scientific study of language. Satisfies GE, category D5 (Contemporary International Perspectives). Is prerequisite to the TESL program course of study.

MATH 103 Ethnomathematics (3) / Fall

This course examines the mathematics of many indigenous cultures, especially those of North and South America, Africa, and Oceania. It will examine the use of mathematics in commerce, land measure and surveying, games, kinship, measurement of time, navigation, data storage, and other topics. The mathematics involved includes number bases, probability, geometry, number theory, lattice theory, and many other topics of interest in modern mathematics. This class is recommended for liberal arts students who are interested in studying other cultures. Satisfies GE requirement for mathematics, category B4. Prerequisite: satisfaction of ELM requirement.

MATH 104 Introduction to Modern Mathematics (3) / Fall, Spring

A class designed to explore the beauty and relevance of mathematics. Topics may include puzzles, paradoxes and logic; axiomatic systems; biographies; infinity of the counting numbers and higher infinities; historical crises and breakthroughs in mathematics; and uncertainty. This class is recommended for liberal arts students. Satisfies GE requirement for mathematics, category B4. Prerequisite: satisfaction of ELM requirement.

MATH 105 Mathematics and Politics (3) / Spring

This course will explore mathematical achievements in the theory of politics. Topics may include: escalation, conflict, yes/no voting, political power, and social choice. This course has an enormous cultural content, while at the same time dealing with important mathematical ideas. This class is especially suitable for social science students. Satisfies GE requirement for mathematics, category B4. Prerequisite: satisfaction of ELM requirement.

MATH 107 Precalculus Mathematics (4) / Fall, Spring

Covers a brief review of college algebra; functional notation, composition and decomposition of functions, inverse functions; behavior of families of functions such as polynomial, rational, exponential, and logarithmic; trigonometric functions, equations, and identities; some mathematical modeling. Emphasis on problem solving. Satisfies the GE requirement for mathematics, category B4. Prerequisite: satisfaction of ELM requirement. CAN MATH 16.

MATH 111 Symmetry in the Sciences and Arts (3)

Exploration of the mathematical theory of symmetry in the plane and in space. The theory uses the idea that the set of rigid motions comprises an algebraic structure called a group, and that composing rigid motions correspond to performing an algebraic operation. The course emphasizes how the mathematical theory aids in understanding the causes and consequences of symmetry in natural and man-made objects. A central theme is the contribution of mathematics to other fields, such as architecture and decorative art; engineering of mechanical devices; music and dance; evolution and anatomy; crystallography; chemical bonding and atomic structure; philosophy; and mathematical proofs. Satisfies GE requirement for mathematics, category B4. Prerequisite: satisfaction of ELM requirement.

MATH 131 Introduction to Finite Mathematics (3) / Fall, Spring

A GE course designed to give students an understanding of finite mathematics applied in the modern world to social sciences, economic analysis, statistical analysis, and decision making. Topics include linear models, linear programming, financial mathematics, sets, combinatorics, probability, and statistics. Recommended for students with interests in the social sciences and management. Satisfies GE requirement for mathematics, category B4. Prerequisite: satisfaction of ELM requirement.

MATH 141 Studies in . . . (3) / Fall, Spring

Topics and approaches may vary. Please consult the current Schedule of Classes for details. Satisfies the GE requirement for mathematics, category B4. Prerequisite: satisfaction of ELM requirement.

MATH 150 Geometry (3) / Fall, Spring

A study of Euclidean geometry. It will cover topics such as compass and straightedge constructions, proofs, parallel and perpendicular lines, triangles, circles, polygons, measurement, solids, transformations, tessellations, and the use of geometry software. Satisfies the GE requirement for mathematics, category B4. Prerequisite: satisfaction of ELM requirement.

MATH 161 Calculus I (4) / Fall, Spring

Calculus I includes limits, continuity, derivatives including trigonometric functions, chain rule, curve sketching, extremum problems, implicit differentiation, related rates, Mean Value Theorem, introduction to integration, fundamental theorem of calculus, substitution, and applications. Satisfies the GE requirement for mathematics, category B4. Prerequisite: MATH 107 or consent of instructor. CAN MATH 18.

MATH 165 Elementary Statistics (4) / Fall, Spring

This course is a computer-intensive introduction to elementary statistics. Topics include: elementary descriptive and inferential statistics and their application to the behavioral, natural, and social sciences, discrete probability theory, sampling, random variables, special distributions, central limit theorem, estimation, tests of hypothesis, analysis of variance, linear regression and correlation, and some nonparametric tests. Satisfies the GE requirement for mathematics, category B4. Prerequisite: satisfaction of ELM requirement. CAN STAT 2.

MUS 101 Introduction to Music (3) / Fall

What does music mean? Why does music matter? These questions will shape the development of listening tools and cultural perspectives appropriate to the diverse and changing roles music plays in different times and places. No prior background in music is required.

MUS 105 Fundamentals (3) / Fall, Spring

An intensive course in beginning music theory. The course covers basic staff reading, intervals, scales, simple triads and their connections in major keys, and rhythmic drill through triplet subdivision of the pulse. Materials are comprehended conceptually, aurally and at the piano. Satisfies GE, category C1 (Applied Arts Combining Studio and Theory). Corequisite for prospective Music majors only: MUS 109.

MUS 250 Survey of European Music (3) / Fall, Spring

An introductory course with lectures and demonstrations dealing with classical European music from the Middle Ages to contemporary music. Satisfies GE, category C1 (History of the Fine Arts).

MUS 270 Music and Society (3) / Fall

A study of the relationship between the operation of societies, the activities of musicians, and the nature of music produced in various social contexts. Satisfies GE, category C4 (Comparative Perspectives).

NAMS 200 Introduction to Native Americans (3) / Fall

A survey of the various geographical environments of tribes living in North America. The emphasis is upon precontact cultures, but includes cultural and historical changes to tribes during the settling of this country by Europeans. Satisfies GE category D1 (Individual and Society), and the ethnic studies requirement.

NAMS 205 Introduction to Native American Arts (3) Fall, alternate years

A general introduction of the traditional American Indian arts in the United States. The course will include information on the culture that produced the art forms. Craft projects or research paper by the student will be a part of the class requirements. Satisfies GE, category C1 (Fine Arts), and the ethnic studies requirement.

PHIL 101 Critical Thinking (3) / Fall, Spring

Critical thinking is the best defense against intellectual trickery and self-delusion. It provides specific techniques and tools whereby we can avoid basic fallacies in our own thinking and detect them in the thought of others. Reasoning is a highly complicated human activity and cannot be satisfactorily studied in an intellectual vacuum. Hence, in this course, critical and uncritical thought are contrasted in the context of the world of human interests and activities - social, political and scientific. All of the basic "tricks" for persuading people to accept false premises and conclusions as true are systematically laid out and their detection practiced. Satisfies GE, category A3 (Critical Thinking).

PHIL 102 Introduction to Logic (3) / Fall, Spring

An introduction to the nature of contemporary systems of logic and their application. Students will learn how to abbreviate arguments in ordinary language, to deduce conclusions, and to locate fallacies. Recommended for students of the sciences, computer programming, or mathematics, and the general student interested in the structure of arguments. Satisfies GE, category A3 (Critical Thinking). CAN PHIL 6.

PHIL 120 Introduction to Philosophy (3) / Fall, Spring

This course provides an introduction to some of the enduring questions of thinking: What is the nature of knowledge, of morality, of justice, of the self, of religion, of the search for wisdom, of reality? Topics and approaches may vary from section to section. Consult the department office for current information. Satisfies GE, category C3 (Philosophy and Values).

PHIL 200 Philosophical Issues of Our Day (3)

Students practice the techniques of reading and thinking critically, of expository writing, and of oral expression as they reflect together on a contemporary issue or problem. As they read and discuss the semester's topic, students will reflect consciously on the principles of thinking, speaking, and writing. This skills-oriented course reflects the assumption that we master skills more thoroughly when we are working on an interesting set of issues that are significant in the world today. Prerequisites: completion of GE categories A2 and A3.

PHYS 100 Descriptive Physics (3) / Fall, Spring

Lecture, 3 hours. A descriptive survey of the important principles of physics. Not recommended for B.S. students. Satisfies GE, category B1 or B3 (Physical Sciences). Prerequisite for chemistry, physics or mathematics majors: Physics and Astronomy Department approval.

PHYS 102 Descriptive Physics Laboratory (1) / Spring

Laboratory, 3 hours. Experimental demonstrations, exercises, and field trips illustrating the methods by which physicists have learned what they claim to know about the world. Instruction is at the PHYS 100 level. Satisfies GE, category B1 or B3 (Physical Sciences) and GE laboratory requirements. Prerequisite: previous or concurrent enrollment in PHYS 100 or ASTR 100, or consent of instructor.

PHYS 114 Introduction to Physics I (4) / Fall, Spring

Lecture, 4 hours. The first of three basic sequential courses in physics for science and mathematics majors. Introduction to vectors; classical mechanics, including particle dynamics and fluid mechanics; simple harmonic motion; thermodynamics and kinetics. Satisfies GE, category B1 or B3 (Physical Sciences). Prerequisite: MATH 161.

PHYS 116 Introductory Laboratory Experience (1) / Fall, Spring

Laboratory, 3 hours. Demonstrations and participatory experiments are used to increase the student's familiarity with gravitational, electromagnetic and nuclear forces in nature. Applications include biological, geophysical, medical and environmental phenomena. Satisfies GE, category B1 or B3 (Physical Sciences) and GE laboratory requirements. Prerequisite: previous or concurrent enrollment in PHYS 114.

PHYS 209AB General Physics Laboratory (1, 1) / A, Fall; B, Spring

Laboratory, 3 hours. Laboratory experiments to accompany PHYS 210AB and develop the student's ability to perform measurements of physical phenomena and to increase their appreciation of the sense of the physical universe gained through experimentation. 209A satisfies GE, category B1 or B3 (Physical Sciences) and GE laboratory requirements. Prerequisites: high school algebra and trigonometry and a high school physical science. For 209A: previous or concurrent enrollment in PHYS 210A. For 209B: 209A and previous or concurrent enrollment in 210B.

PHYS 210AB General Physics (3, 3) / A, Fall; B, Spring

Lecture, 3 hours. A basic course in physics for students majoring in biology, geology or preprofessional programs. Fundamentals of Newtonian mechanics, thermophysics, optics, electricity and magnetism, special relativity, and quantum physics. Registration by mathematics majors requires Physics and Astronomy Department approval. 210A satisfies GE, category B1 or B3 (Physical Sciences) requirement. Prerequisites: high school algebra and trigonometry.

POLS 200 The American Political System (3) / Fall, Spring

An examination of American politics and governmental institutions. Introduces students to the political system and how to participate in it, should the need arise. Satisfies the code requirements in American Constitution and California state and local government. Satisfies GE, category D4 (U.S. Constitution and State and Local Government). CAN GOVT 2.

POLS 201 Ideas and Institutions (3-4) / Fall, Spring

An analysis of the basic political values and their impact on society. Students will be introduced to the relationship among values, ideology and the political process. Political science majors are expected to take this course, which stresses written expression, during their first year in the department. Satisfies GE, category D5 (Contemporary International Perspectives).

POLS 202 Issues in Modern American Politics (3-4) / Fall, Spring

Leaders and issues in American political life considered in relation to major policies and movements, e.g., progressivism, isolationism, the New Deal, containment. Open to majors and minors in political science. Meets code requirements in American Constitution and California state and local government. Satisfies GE, category D4 (U.S. Constitution and State and Local Government).

PSY 201 Introduction to Sociology (3) / Fall, Spring

A general overview of the concepts, theories, research methods and findings of sociology. The purpose is to train students to view the world through a sociological perspective. Satisfies GE, category D1 (Individual and Society). CAN SOC 2.

PSY 250 Introduction to Psychology (3) / Fall, Spring

The purpose of this course is to introduce the theories, research, and applications that constitute psychology. An important goal is to help students become informed consumers of psychological knowledge. Prerequisite to upper-division courses in the major for students who enter Sonoma State University as first-time freshmen and students who transfer into psychology from other majors at Sonoma State. Satisfies GE, category D1 (Individual and Society). CAN PSY 2.

SOC 201 Introduction to Sociology (3) Fall, Spring

A general overview of the concepts, theories, research methods, and findings of sociology. The purpose is to train students to view the world through a sociological perspective. Satisfies GE, category D1 (Individual and Society). CAN SOC 2.

SPAN 201 Intermediate Spanish, First Semester (4)

Review of fundamentals and a study of complex structural patterns. Reading of authentic cultural materials used in Spain and Latin America. Weekly compositions. Must be taken concurrently with SPAN 201L. Prerequisite: SPAN 102 or equivalent.

SPAN 202 Intermediate Spanish, Second Semester (4)

Communicative grammar patterns in Spanish. Reading of current authentic cultural materials and weekly practice in composition. Must be taken concurrently with SPAN 202L. Prerequisite: SPAN 201 or equivalent

NOTE: FOREIGN LANGUAGE COURSE OPTIONS

A first year course may be selected if the student has met the high school subject requirement (2 years) in a different language. A first year course may also be selected if the student has completed one year of a different foreign language at the college level.

THAR 101 Making Theatre (3)

This course is an overview of the art and practice of making theatre. Designed for non-majors, the class examines the various elements involved in creating, developing, performing, and presenting a theatrical event. Through lecture, hands-on projects, video, and demonstrations, students gain an appreciation of the artistry of live theatre performance. Satisfies GE, category C1.

THAR 102 Intro to the History of Drama and Dance: Origins to 1800 (3)

First of a two-part course, this course examines Western theatre traditions of ritual, drama, and dance at their origins, while dramatic tragedy and comedy are traced from the Golden age of Greece through the Age of Enlightenment, roughly 1800. Added emphasis is placed on traditional Asian theatre forms. The course relates the theatre's past to how theatre is practiced today. Satisfies GE, category C1.

THAR 103 Intro to the History of Drama and Dance: 1800 to the Present (3)

Part two examines theatre, drama, and dance from 19th century to the present, including the rise of Realism and other theatre and dance forms in the 20th century. Also considered are the American musical, recent trends in diversity and multiculturalism, and the theatre's relationship to electronic media. Satisfies GE, category C1.

THAR 200 Seeing Theatre Today

Experience great performances created by modern and contemporary theatre artists. Students are engaged as audiences through videotaped productions of renowned and important performers, directors, and choreographers, and Theater Department productions. Post-viewing small-group discussions and on-line chats ask students to further engage by reflecting upon their shared experience. Students may opt to pay an activity fee, due at registration, to see a major production in the San Francisco Bay Area. Satisfies GE, category C4.

WGS 280 Women's Bodies: Health and Image (3) / Fall, Spring

This course examines research and theory about the health and body image concerns of women throughout the life cycle. This includes the gender politics of medical research, mental health, body image, reproductive health and chronic illness. Students will be exposed to current theoretical work and writing about the body in society, including weight and appearance issues for women across race and social class. Students will develop the skills necessary to become better consumers of health information, including training in how to evaluate the quality of medical and health information available on the World Wide Web. Satisfies GE, category E.

WGS 285 Men's Health, Men's Lives (3) / Fall, Spring

The purpose of this course is to examine men's mental and physical health within the larger context of men's lives. A multidisciplinary perspective will be used to explore how various populations of men experience health, disease and disability, the social sources of health and illness, and men's body image concerns. In addition, this course will develop an understanding of various theories of manhood or masculinity, and explore how men's participation in various activities — including relationships, family, fatherhood, sports, crime, and violence — influence their health and well-being. Satisfies GE, category E.