



**SAMPOERNA
UNIVERSITY**
AMERICAN COLLEGE

General Education Course Descriptions - 2017-2018

COURSE DESCRIPTIONS

General Education Course Descriptions

AREA 1. COMMUNICATIONS

(9 CREDITS)

ENC1101 Composition I

Credit Hours: 3

ENC1101 is a university parallel course that requires students to learn and practice writing by creating original compositions, exploring basic rhetorical forms such as narration, exposition, and argumentations. Students will also develop research skills and learn to incorporate research material through the writing process. For non-exempt students, placement in ENC1101 is determined by both standard and departmental assessment tests. Students must earn a grade of C or higher to meet the requirements of the Gordon Rule for writing. This is a writing credit course that focuses on extensive writing and revision.

ENC1102 Composition II

Credit Hours: 3

Composition II is designed to further develop a student's communication skills by building on the writing and critical thinking strategies learned in ENC1101. The course requires students to observe the conventions of Standard American English and create documented essays, demonstrating a students' ability to think critically and communicate analytically. Selected texts supplement the course and provide topics for discussion and assignments. Students use library research methods for primary and secondary sources to produce MLA style-documented and well-argued research essays and projects. This is a writing credit course. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule for writing.

SPC1024 Introduction Speech Communication

Credit Hours: 3

This course is designed to provide students with fundamental training and practical experience for researching, organizing, and delivering speeches in public situations. Topics include: audience analysis, speech anxiety, critical listening, and preparation and delivery of informative, persuasive, and other possible types of public speeches in various cultural context with emphasis on academic and scholarly research. Students will also learn to effectively incorporate audio and visual aids/technologies for effective speeches. This is an international/intercultural competency course.

AREA 2. HUMANITIES

(6 CREDITS)

REL2300 World Religions

Credit Hours: 3

This course is a descriptive examination of the world's most popular religions. This is a writing course with International/Intercultural content. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule for writing.

LIT2000 Introduction to Literature

Credit Hours: 3

This introductory course exposes students to the study of literature and a range of widely recognized authors and works. Students will examine and interpret a diverse and representative body of works from genres such as short stories, poetry, creative non-fiction, plays and novels. These selections may include works from many periods and cultures within American, British, and World Literature. Upon successful completion of this course, students will be able to demonstrate an understanding of fundamental concepts and ideas in each of the major literary forms. This is a writing credit course with International/Intercultural content. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule for writing.

PHI2010 Introduction to Philosophy

Credit Hours: 3

This course is an introduction to the nature of philosophy, philosophical thinking, major intellectual movements in the history of philosophy, and specific problems in philosophy. The relationship between philosophy, society, religion, and culture will be examined. This is a writing credit course with International/Intercultural content course. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule for writing.

AREA 3. SOCIAL and BEHAVIORAL SCIENCES

(6 CREDITS)

ECO2013 Principles of Macroeconomics

Credit Hours: 3

An introductory course in macroeconomic principles covering basic economic problems and concepts. Topics discussed and analyzed include basic economic problems of unemployment and inflation, as well as fiscal and monetary policies. Students will recognize the role of households, businesses and governments in the market economy and in their own lives. This is a writing credit course with International/Intercultural content. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule for writing.

INR2002 Introduction to International Relations

Credit Hours: 3

A cross national analysis of the concepts of sovereignty, power, security, economic development and national interests in the formulation of foreign policy; the respective roles of the United Nations and the European Union within the context of the growth of Intergovernmental Organizations and Non-governmental actors such as legislatures and interest groups. Study of the utilization of those concepts on policy of both leading nations and the emerging states with emphasis on both conflictual issues related to both tangible and intangible causes as well as the cooperative aspects of a more globalized and interdependent economic system. This is a writing credit course with

International/Intercultural content. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule for writing.

SYG2010 Social Problems

Credit Hours: 3

This course is an examination of the major social problems found in our changing social environment. More specifically, students will be introduced to a variety of topics which may include inequality based on class, race, ethnicity, education, age; violence in society; the changing family; social problems related to gender and sexual behavior; global social problems. This is a writing credit course with International/Intercultural content. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule for writing.

PSY2012 General Psychology

Credit Hours: 3

General Psychology reviews the scientific principles related to human behavior and mental processes. Topics include the scientific method, neuroscience, learning, memory, and thinking, emotions, motivation, and health, life span development, personality, psychological disorders, and therapies, and social psychology. This is a writing credit course with International/Intercultural content. Students must earn a minimum grade of C to meet the requirements of the Gordon Rule for writing.

AREA 4. SCIENCE, LAB, and WELLNESS

(9 CREDITS)

EVR1001 Introduction to Environmental Science

Credit Hours: 3

Study of the physical environment, its relationship with the biosphere, and man's impact upon natural systems. This course includes ecological systems, Florida environments and geology, pollution and environmental regulations, renewable and nonrenewable resources, and sustainability. This course meets General Education requirements in the Biological and Physical Sciences. Placement by Testing Department.

CHM1045 General Chemistry 1

Credit Hours: 3

This is the first course in a two semester sequence, CHM 1045 and CHM 1046. This sequence includes two laboratories: CHM 1045L to be taken concurrently with CHM 1045 and CHM 1046L to be taken with CHM 1046. This sequence is for students who have already had high school chemistry. Topics covered include: chemical measurements, stoichiometry, atomic structure periodic table, chemical bonding, inorganic compounds, nomenclature, formula writing, gases, liquids, solids, solutions acid-base chemistry and ionic reactions and some descriptive chemistry of non-metals. To enroll, it is strongly recommended that students have had previous chemistry at the high school or college level. If a student has not had prior experience in a chemistry course the CHM 1040/CHM 1041/CHM 1046 sequence is highly recommended.

CHM1045L General Chemistry I Laboratory**Credit Hours: 1**

Laboratory experiments to accompany CHM1041 or CHM1045.

PHY2048 General Physics with Calculus I**Credit Hours: 4**

PHY2048 is part one of a comprehensive course in physics outlining mechanics, heat, and wave motion using analysis in calculus.

PHY2048L General Physics with Calculus I Laboratory**Credit Hours: 1**

PHY2048L is a laboratory which allows students to be able to collect and analyze data in a variety of experiments covering topics covered in its companion course PHY2048. Students will create experiment reports using analysis in calculus.

HLP1081 Total Wellness**Credit Hours: 2**

Total Wellness emphasizes the importance of knowledge, attitudes, and practices relating to personal wellness. It is a course designed to expose students to a broad range of issues and information relating to the various aspects of personal wellness including physical, social emotional, intellectual, spiritual and environmental wellness. This course integrates personal wellness and fitness in both a classroom and exercise environment. Evolving current topics such as nutrition, disease prevention, stress reduction, exercise prescription, and environmental responsibility are integrated to enable the student to understand the lifelong effects of healthy lifestyle choices. This is an International/Intercultural competency course.

AREA 5: MATHEMATICS**(6 CREDITS)****MAC1105 College Algebra****Credit Hours: 3**

A college algebra course containing topics such as solving, graphing and applying linear and quadratic equations and inequalities; exponential and logarithmic properties; linear, quadratic, rational, absolute value, square root, cubic, and reciprocal functions operations, compositions, and inverses of functions; and systems of equations and inequalities, all with applications throughout the course. Recommendation from the Mathematics Department or at least a grade of a "C" in the prerequisite coursework is required.

STA2023 Statistics**Credit Hours: 3**

A first course in statistical methods including such topics as collecting, grouping, and presenting data; measures of central tendency, position, and variation; theoretical distributions; probability; test of hypotheses; estimation of parameters; and regression and correlation. Use of statistical computer software and/or a scientific calculator (capable of performing 2-variable statistics) will be required. Recommendation of the Mathematics Department or at least a grade of "C" in the prerequisite course is required.

MAC1147 Pre-calculus Algebra & Trigonometry**Credit Hours: 5**

This course is designed to satisfy the dual requirements of MAC1114 and MAC1140, thus preparing the student for the study of calculus. In this course the student will study various function families (e.g. polynomial, exponential, logarithmic, trigonometric) from both analytic and graphical viewpoints, and will use them to model real-life situations. The student will be exposed to additional topics that will deepen their mathematical understanding, including systems, matrices and determinates, sequences and series, parametric equations, and polar coordinates and equations. A graphing calculator may be required. Recommendation from the Mathematics Department or at least a grade of a "B" in the prerequisite coursework required.

MAC2311 Calculus & Analytical Geometry I**Credit Hours: 5**

This is the first of a three-course sequence in calculus. Students may need to a graphing calculator throughout the sequence of courses. Topics include: analytic geometry, functions, limits, continuity, derivatives and their applications, transcendental functions, anti-derivatives, and definite integrals. Certain sections of this course may require the use of a graphing calculator. Recommendation from the Mathematics Department or at least a grade of a "C" in the prerequisite coursework required.

MAC2233 Calculus for Business, Social & Life Sciences**Credit Hours: 3**

This is a general education course which includes the college-level skills of calculus such as: functions, graphs, limits, differentiation, integration, average and instantaneous rates of change, and other applications. Recommendation from the Mathematics Department or at least a grade of a "C" in the prerequisite coursework required.

Faculty of Business Course Descriptions

GEB1011 Introduction to Business**Credit Hours: 3**

This course provides a basic study of business activity and how it relates to our economic society. Topics covered include how businesses are owned, organized, managed and controlled. Course content emphasizes business vocabulary, areas of business specialization, and career opportunities.

ACG2001 Principles of Accounting I**Credit Hours: 3**

This course provides an introductory study of the fundamental principles of recording, summarizing and reporting the financial activities of proprietorships.

ACG2011 Principles of Accounting II**Credit Hours: 3**

As the second course of the financial accounting series, this course concludes the study of financial accounting. Topics covered include plant assets, current liabilities, payroll, corporations, partnerships, and cash flow statements.

ECO2023 Principles of Microeconomics**Credit Hours: 3**

An introductory course stressing microeconomic theories. Topics studied include the theory and application of supply and demand elasticity; theory of consumer demand, utility; production and cost theory including law of diminishing returns; the firm's profit-maximizing behaviors under market models ranging from pure competition to pure monopoly; the theory of income distribution; comparative advantage, trade policies exchange rates, balance of payments, and other international issues.

BUL2241 Business Law I**Credit Hours: 3**

This course covers basic principles of law and their application to business problems. Topics include a discussion of legal rights and social forces; the legal relationships of government, business and society; law of contracts; personal property, bailments, sales of goods, torts and business crimes.

MAN2021 Introduction to Management**Credit Hours: 3**

This course covers fundamental management principles and concepts. Emphasis is placed on the management functions of planning, organizing, staffing, directing and controlling. Principles of scientific management, motivation, and economic analysis are studied relative to their use in business decisions.

ECO2023 Principles of Microeconomics**Credit Hours: 3**

An introductory course stressing microeconomic theories. Topics studied include the theory and application of supply and demand elasticity; theory of consumer demand, utility; production and cost theory including law of diminishing returns; the firm's profit-maximizing behaviors under market models ranging from pure competition to pure monopoly; the theory of income distribution; comparative advantage, trade policies exchange rates, balance of payments, and other international issues.

Faculty of Science and Technology Course Descriptions

CHM1046 General Chemistry II**Credit Hours: 3**

This is the final course of the two-semester general chemistry sequence: CHM1045 and CHM1046; and the final course of the three-semester general chemistry sequence: CHM1040, CHM1041, and CHM1046. These sequences include two laboratories: (1) CHM1045L to be taken concurrently with CHM1041 or CHM1045, and (2) CHM1046L to be taken with CHM1046. Topics covered include thermodynamics, kinetics, equilibrium, electrochemistry, coordination chemistry, descriptive chemistry of metals, nuclear chemistry and an introduction to organic chemistry.

CHM1046L General Chemistry II Laboratory**Credit Hours: 1**

Laboratory experiments to accompany CHM1046E or CHM1046. Special fee charged. Upon successful completion of this course, the students should be able to use appropriate laboratory equipment to safely perform laboratory experiments that relate to the topics covered in CHM1046 or CHM1046E, to collect data accurately and to use those data to calculate a reasonable answer or come to a logical conclusion.

PHY2048 General Physics with Calculus I**Credit Hours: 4**

PHY2048 is part one of a comprehensive course in physics outlining mechanics, heat, and wave motion using analysis in calculus.

PHY2048L General Physics with Calculus I Laboratory**Credit Hours: 1**

PHY2048L is a laboratory which allows students to be able to collect and analyze data in a variety of experiments covering topics covered in its companion course PHY2048. Students will create experiment reports using analysis in calculus.

PHY2049 General Physics with Calculus II**Credit Hours: 4**

PHY2049 is part two of a comprehensive physics course outlining electricity, magnetism and optics using analysis in calculus.

PHY2049L General Physics with Calculus II Laboratory**Credit Hours: 1**

A series of physics laboratory experiments chosen to coincide with the lecture course PHY2049. The course will include topics in electricity, magnetism, and optics. One 2-hour class meeting per week. A laboratory fee is charged.

MAC2312 Calculus & Analytical Geometry II**Credit Hours: 5**

This is the second of a three-course sequence in calculus. Topics include techniques of integration, conics, polar coordinates, indeterminate forms, L'Hopital's Rule, proper integrals, infinite series, parametric equations, improper integrals, volume, arc length, surface area, work, and other applications of integration. A graphing calculator may be required in certain sections of this course. Recommendation from the Mathematics Department or at least a grade of a "C" in the prerequisite coursework required.

MAC2313 Calculus & Analytical Geometry III**Credit Hours: 5**

This is the third of a three-course sequence in calculus. Topics include vectors in 3 space, 3 dimensional surfaces, multivariate functions, cylindrical and spherical coordinates, multiple integrals, partial derivatives, vector fields, a graphing calculator may be required in certain sections of this course. Recommendation from the Mathematics Department or at least a grade of a "C" in the prerequisite coursework required.

MAP2302 Differential Equations**Credit Hours: 3**

Topics include the classification, solution and application of differential equations, including numerical methods, Laplace transforms, linear systems, and series solutions.

MAS2103 Linear Algebra

Credit Hours: 3

A first course in linear algebra, emphasizing the algebra of matrices and vector spaces. Recommended for students majoring in mathematics or related areas.

EGS1001 Introduction to Engineering

Credit Hours: 3

This course is a basic introduction to engineering. It will explore the various engineering fields, engineering problem solving, and basic math and physics used by engineers. Other topics such as safety, ethics, and engineering communications will also be addressed.