



**SAMPOERNA
UNIVERSITY**

**Sampoerna University Course Descriptions Document
(All Faculties)**

Sampoerna University Course Descriptions

1. 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 student's 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.

SPC1608 Introduction to Public Speaking Credit Hours: 3

This course is designed to provide students with fundamental training and practical experience for speaking in public, business, and professional situations. Topics include: audience analysis, speech anxiety, critical listening, and preparation and delivery of speeches in various cultural contexts. 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.

PSY2012L General Psychology Laboratory

Credit Hours: 1

This laboratory course parallels and supplements the instruction given in General Psychology (PSY2012). Illustrated in this course are a variety of experimental and behavioral activities that demonstrate the scientific basis of psychology.

DEP2302 Developmental Psychology II: Adolescent & Young Adult

Credit Hours: 3

The personal, social and developmental aspects of adolescence and early adulthood are reviewed in this course. A focus is placed upon the research dealing with the characteristic problems and adjustments of this life stage. 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.

CHM1020 Introduction to Chemistry

Credit Hours: 3

Selected topics from general chemistry, organic chemistry and biochemistry. This course is designed specifically for Nursing and other Allied Health Technology students.

CHM1020L Introduction to Chemistry Laboratory

Credit Hours: 1

Laboratory experiments to accompany CHM1020.

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.

BOT2800 Plants & People

Credit Hours: 3

This course will emphasize the role of plants in the development of civilizations, and the influence of plants on world history, politics, economics and culture. Will survey important plants and plant products from different cultures around the world.

BSC1005L Biological Principles for Non-Majors Laboratory**Credit Hours: 1**

Two hours of laboratory weekly which provides hands on activities that develop basic laboratory skills while reinforcing basic concepts in biology. Dissection exercises may be a component of this course.

AREA 5. MATHEMATICS**(6 CREDITS)****MAC 1105 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.

MAC 1147 Pre-calculus Algebra & Trigonometry**Credit Hours: 5**

This course is designed to satisfy the dual requirements of MAC 1114 and MAC 1140, 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 determinants, 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.

MAC 2311 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, antiderivatives, 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.

MAC 2233 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.

2. 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.

ARH2051 Art History: Renaissance to Modern

Credit Hours: 3

Art History: Renaissance to Modern is a chronological survey and analysis of European based art from Renaissance to Modern, placing major works in a cultural, historical, and stylistic context. 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.

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.

GEB4131 Entrepreneurship & Small Business Management

Credit Hours: 3

A comprehensive coverage of the various tools, documents, and subject materials utilized to start and

maintain a small business. This includes the entrepreneurial perspective (challenges, characteristics, self-assessment), starting a new venture/developing the business idea, developing the business/marketing/financial organizational plans, financing the new venture, managing the new venture, and coverage of special issues such as legal, franchising, and international entrepreneurship.

CGS1060C Computer & Internet Literacy

Credit Hours: 3

This is an introductory course in basic computer and internet use. It covers computer hardware and software fundamentals (including the use of Windows), key productivity applications (including word processing, spreadsheets, and presentation systems), and living in an online world (including network fundamentals, e-mails, and the effective use of the Internet as a communication tool and information resource). Students will develop basic computer skills to aid them with college studies and workforce readiness. Hands-on use of a personal computer is required.

3. 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.

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.

COP1000C Introduction to Computer Programming

Credit Hours: 3

This course provides the beginning programming student with the techniques necessary to write well-documented, structured computer programs. The course is intended to emphasize the planning process using examples involving sequence, selection, and iteration. The course is designed to promote good programming practices for further study of other programming languages.

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.

ETD1320 Basic CAD

Credit Hours: 3

First course in computer aided design (CAD), Laboratory work using AutoCAD software. Topics include fundamentals of DOS, AutoCAD command structure, setting units and limits, drafting primitives, layering, use of editing tools; grid, snap, and axis commands. Assignments requiring extensive use of the CAD lab.

4. Faculty of Education Course Descriptions

EEC1200 Early Childhood Education

Credit Hours: 3

This course reviews the history and present day aspects of early childhood programs for infants, toddlers, preschool, and school children. Basic principles and foundations of early childhood education are covered.

CHD1320 Curriculum Planning for Early Childhood

Credit Hours: 3

Content and methods of planning developmentally appropriate activities to enhance children's cognitive, social, emotional, physical and creative development. Lesson plan formats and daily scheduling will be covered.

CHD1334 Children's Literature & Language Arts

Credit Hours: 3

This historical perspective will guide a study of qualitative books, such as fairy tales, folk tales, poems, and nursery rhymes. The role of the teacher in the child's acquisition of communications skills will be investigated.

CHD1338 Math & Science for the Young Child

Credit Hours: 3

Designed to foster understanding of the development of mathematical thinking and the mental ability of the preschool child. The science portion will enable the pupil to become familiar with the concept and techniques of "sciencing."

CHD2800 Admin & Management in Early Childhood Education**Credit Hours: 3**

This course will emphasize the design and operation of a childcare facility. Classroom exposure will emphasize and assess site selection, building design and supervisory functions, equipment selection, activity planning, scheduling, financing, budgeting, record-keeping, and marketing.

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

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.

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