



BACHELOR OF SECONDARY EDUCATION

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COURSE DESCRIPTIONS

GENERAL EDUCATION

Course Title	GEC 01 – UNDERSTANDING THE SELF
Course Description	This course deals with the nature and identity factors and forces that affect the development and maintenance of personal identity.
Course Credit/Contact	3 units

Course Title	GEC 02 – READINGS IN PHILIPPINE HISTORY
Course Description	This course is all about Philippine History viewed from the lenses of selected primary sources in different periods, analysis and interpretation.
Course Credit	3 units

Course Title	GEC 03 – THE CONTEMPORARY WORLD
Course Description	This course deals with the globalization and its impact on individuals, communities and nations, challenges and responses.
Course Credit	3 units

Course Title	GEC 04 – MATHEMATICS IN THE MODERN WORLD
Course Description	This course deals with the nature of mathematics, appreciation of its practical, intellectual and aesthetic dimensions and application of mathematical tools in daily life.
Course Credit	3 units

Course Title	GEC 05 – PURPOSIVE COMMUNICATION
Course Description	This course deals with writing, speaking and presenting for different audiences and for various purposes.
Course Credit	3 units

Course Title	GEC 06 – ART APPRECIATION
Course Description	This course deals with the nature, function and appreciation of the arts in the contemporary society.
Course Credit	3 units



Course Title	GEC 07 – SCIENCE, TECHNOLOGY & SOCIETY
Course Description	This course deals with the interaction between science and technology and social, cultural, political and economic contexts which shape and are shaped by them.
Course Credit	3 units

Course Title	GEC 08 – ETHICS
Course Description	This course deals with the principles of ethical behavior in modern society at the level of the person, society and in interaction with the environment and other shared resources.
Course Credit/Contact	3 units

Course Title	GEE 07 – LIVING IN THE IT ERA
Course Description	Science, culture and ethics of information technology, its influence on modern living and human relationships and uses for personal, professional, and social advancement.
Course Credit	3 units

Course Title	GEE 08 – GENDER & SOCIETY
Course Description	Gender as a social construction, its role and impact on different facets of societal life.
Course Credit	3 units

Course Title	GEE 09 – ENTREPRENEURIAL MIND
Course Description	Meaning and attributes of entrepreneurship (e.g., innovativeness, risk-taking and self-reliance), the social role and impact of entrepreneurship.
Course Credit	3 units

Course Title	Rizal – LIFE, WORKS & WRITINGS OF RIZAL
Course Description	This course is designed to orient the students about the life, works and writing of the greatest hero and martyr of our nation from the day of his birth until the day of his death.
Course Credit	3 units



Course Title	Lit 1 – PHILIPPINE LITERATURE WITH ILOCANO CULTURE
Course Description	This course is created to provide the students an outline of Philippine Literature with Ilocano culture from the beginning up to the present time. It familiarizes the students to the development of literary genres which mirror Filipino life and values. Through discussion and analysis of various literary genres and elements, this program works toward the enhancement of students' awareness and appreciation of Philippine Literature.
Course Credit	3 units

Course Title	Litt 2 – WORLD LITERATURE AND CIVILIZATION
Course Description	This course is created to provide the students an outline of World Literature and civilization from the beginning up to the present time.. Through discussion and analysis of various literary genres and elements, this program works toward the enhancement of students' awareness and appreciation of World Literature and Civilization.
Course Credit	3 units

Course Title	FL – FOREIGN LANGUAGE 1
Course Description	The students will be learning the basics of a foreign language (Mandarin) that will make him/her globally competitive individual .
Course Credit	2 units

Course Title	CFVE 01 – CHRISTIAN FOUNDATION & VALUES EDUCATION 1
Course Description	This course is an overview of the basic Christian Beliefs that every person should know. Knowledge of these beliefs will be useful for all who have began the Christian walk as well as those who are looking for basic teachings that may lead them toward the knowledge of God and His Words
Course Credit	3 units

Course Title	CFVE 02 – CHRISTIAN FOUNDATION & VALUES EDUCATION 2
Course Description	This course provides instructions toward righteous living in the sight of God. One strong evidence that God truly has created humans is the “inner sense of morality” in man which means that man was made in the image of God Himself and was given the ability to choose what is good and right thing to do.
Course Credit	3 units



Course Title	NSTP 1 – NATIONAL SERVICE TRAINING PROGRAM 1
Course Description	This course is pursuant to Republic Act No. 9163, otherwise known as the National Service Training Act of 2001, which mandates tertiary educational institutions to incorporate in the collegiate curriculum a program aimed at “enhancing civic consciousness and defense preparedness in the youth by developing the ethics of service and patriotism.
Course Credit	3 units

Course Title	NSTP 2 – NATIONAL SERVICE TRAINING PROGRAM 2
Course Description	This course is a sequel to NSTP 1 and is destined to immerse students in activities that it will arm them the capability to contribute in the upliftment of the general welfare and the quality of life of the community and the enhancement of its facilities especially those that are devoted to improving the health, environment, entrepreneurship, safety, recreation and morale of the citizen.
Course Credit	3 units

Course Title	PE 01 – FITNESS & WELLNESS
Course Description	This course is designed to provide students knowledge and skills in maintaining a balanced and healthy lifestyle through various physical exercises, healthy diet , and fitness and wellness programs. This course enables the students value the benefits and of physical wellness and fitness and apply its principles in their life.
Course Credit	2 units

Course Title	PE 02 – SELF-DEFENSE
Course Description	This course is designed to familiarize the students with the various techniques and strategies in protecting oneself in harmful situations. This course also provides awareness on the students the importance of psychological awareness , alertness, physical health and endurance during difficult situations. Further, it also train students on physical and mental training in using self-defense techniques.
Course Credit	2 units

Course Title	PE 03 – SWIMMING & BASIC LIFE SUPPORT
Course Description	This course deals with the fundamentals of swimming and survival skills. The students are expected to learn the basic and ADVANCED strokes and skills associated with swimming and survival techniques.
Course Credit	2 units



Course Title	PE 04 – SPORTS
Course Description	This course deals with various indoor and outdoor activities designed to arouse the student's interests and abilities to develop self-esteem, perseverance, courage and sense of creativity which will be utilized and carried on to their lifetime endeavors. Covers also activities in which the emphasis is placed upon the development of physical skills through recreational sports essential for stress management.
Course Credit/Contact	2 units

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PROFESSIONAL EDUCATION

Course Title	Ed 1 – FACILITATING LEARNER-CENTERED TEACHING
Course Description	This course explores the fundamental principles, processes and practices anchored on learner-centeredness, and other educational psychologies as these apply to facilitate various teaching-learning delivery models to enhance learning.
Course Credit	3 units

Course Title	Ed 2 – THE TEACHER & SCHOOL COMMUNITY CULTURE & ORGANIZATIONAL LEADERSHIP
Course Description	The course focuses on society as a context upon which the schools have been established. Educational philosophies that are related to the society as a foundation of schools and schooling shall be emphasized. Further, principles and theories on school culture and organizational leadership shall be included to prepare prospective teachers to become school leaders and managers.
Course Credit	3 units

Course Title	Ed 3 – FOUNDATIONS OF SPECIAL AND INCLUSIVE EDUCATION
Course Description	This course shall deal with philosophies, theories and legal bases of special needs and inclusive education, typical and atypical development of children, learning characteristics of students with special educational needs (gifted and talented learners with difficulty seeing, learners with difficulty hearing, learners with difficulty communicating, learners with difficulty walking/moving, learners with difficulty remembering, and focusing learners with difficulty with self-care) and strategies in teaching and managing the learners in a regular class.
Course Credit	3 units



Course Title	Ed 4 – TECHNOLOGY FOR TEACHING & LEARNING 1
Course Description	This is an introductory course that explores basic knowledge, skills and values in the use of technology for teaching and learning. It includes ICT policies and safety issues, media and technology in various content areas, learning theories and principles in the use and design of learning lessons, teaching-learning experiences and assessment tasks that utilize appropriate traditional and innovative technologies with social, ethical and legal responsibility in the use of technology tools and resources.
Course Credit	3 units

Course Title	Ed 5 – THE CHILD & ADOLESCENT LEARNERS & LEARNING PRINCIPLES
Course Description	This course focuses on child and adolescent development with emphasis on current research and theory on biological, linguistic, cognitive, social and emotional dimensions of development. Furthermore, this includes factors that affect the progress of development of the learners and shall include appropriate pedagogical principles applicable for each developmental level.
Course Credit	3 units

Course Title	Ed 6 – EDUCATIONAL RESEARCH
Course Description	This course deals with the elements of the research process. The expected outcome is a research study to be conducted by the teacher education students following research standards and protocols.
Course Credit	3 units

Course Title	Ed 7 – ASSESSMENT OF LEARNING 1
Course Description	This is a course that focused on the principles, development and utilization of conventional assessment tools to improve the teaching-learning process. It emphasizes on the use of assessment of, as, and for in measuring knowledge, comprehension and other thinking skills in the cognitive, psychomotor or affective domains. It allows students to go through the standard steps in test construction and development and the application of grading systems.
Course Credit	3 units

Course Title	Ed 8 – THE TEACHER & SCHOOL CURRICULUM
Course Description	This course includes the fundamental concepts and principles in curriculum and curriculum development as a foundation to engage prospective teachers as curricularists. The more active school curriculum as well as in managing school curriculum change vis-à-vis various context of teaching-learning and curricular reforms shall be given emphasis.
Course Credit	3 units



Course Title	Ed 9 – BUILDING & ENHANCING NEW LITERACIES ACROSS THE CURRICULUM
Course Description	This course introduces the concepts of new literacies in the 21 st century as a evolving social phenomena and shared cultural practices across learning areas. The 21 st century learning literacy shall include (a) globalization and multi-cultural literacy; (b) social literacy; (c) media literacy; (d) financial literacy ; (e) cyber-digital literacy; (f) eco-literacy and (g) arts and creativity literacy. Field base-interdisciplinary explorations and other teaching strategies shall be used in this coursew.
Course Credit	3 units

Course Title	Ed 10 – ASSESSMENT OF LEARNING 2
Course Description	This is a course that focuses on the principles, development and utilization of alternative forms of assessment in measuring authentic learning. It emphasizes on how to assess process and product-oriented learning outcomes as well as affective learning. Students will experience how to develop rubrics and other assessment tools for performance-based and product-based assessment.
Course Credit	3 units

Course Title	Ed 11 – THE TEACHING PROFESSION
Course Description	This course deals with the teacher as a person and as a professional within the context of national and global teachers’ standards and educational philosophies. It will include professional ethics, core values, awareness of professional rights, privileges and responsibilities as well as the teachers’ roles in the society as a transformative agent of change.
Course Credit	3 units

Course Title	Ed 12 – FIELD STUDY 1
Course Description	This is the first experiential course which will immerse a future teacher to actual classroom situation and learning environment where direct observation of teaching learning episodes that focuses on the application of educational theories learned in content and pedagogy courses will be made. Observation on learning behavior, motivation, teacher’s strategies of teaching, classroom management, assessment in learning among others shall be given emphasis. A portfolio shall be required in the course.
Course Credit	3 units
Prerequisite	All professional and major subjects



Course Title	Ed 13 – FIELD STUDY 2
Course Description	This course is a continuation of Field Study 1. It is school based and allows a pre-service student to participate and assist in a limited actual teaching-learning activity that relate to assessment of learning preparation of instructional materials, preparation of bulletin boards and other routines in the classroom. A portfolio which will contain sample lesson or learning plans and demonstration teaching of at least one subject content will be required. An action research shall be encouraged to start in this course and conclude during the internship.
Course Credit	3 units
Prerequisite	All professional and major subjects

Course Title	Ed 14 – TEACHING INTERNSHIP
Course Description	This course is a one semester full time teaching internship in basic education schools using a clinical approach under the mentorship of a cooperating teacher. Teaching internship shall be done both in the in-campus and off-campus, if possible. No academic course shall be taken together with Teaching Internship. A teaching portfolio is required and the completion of the Action Research.
Course Credit	6 units
Prerequisite	Field Study 1 & 2

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MAJOR IN SCIENCE

Course Title	BIO 1 – GENETICS
Course Description	This course deals with the principles of heredity and variation, its application in plant and animal breeding and problems involved in it. It also includes biometrical treatment of qualitative and quantitative characters of both plants and animals
Course Credit	3 units lec & 1 unit lab
Prerequisite	None

Course Title	CHEM 1 – Inorganic Chemistry
Course Description	This course covers fundamental concepts of chemical kinetics, chemical equilibrium (including acid-based chemistry and solubility equilibrium), thermodynamics and electrochemistry. It also deals with solution chemistry specifically reactions in aqueous solutions as well as group properties and reactions of elements as an introduction to qualitative analysis of cations and anions.
Course Credit	3 units lec & 2 units lab
Prerequisite	None



Course Title	CHEM 2 – Organic Chemistry
Course Description	This course is designed to introduce fundamental concepts of organic chemistry including hybridization, structure, nomenclature, and the application of electronic and structural effects in predicting properties and reactivity. The different classes of organic compounds are also covered.
Course Credit	3 units lec & 2 units lab
Prerequisite	Inorganic Chemistry

Course Title	PHYS 1 – MECHANICS WITH FLUID MECHANICS
Course Description	The course deals with the science of fluids (liquids and Gases). It discusses aerodynamics, the study of air and gases in motion and hydrodynamics – the study of liquids in motion. It discusses principle relating speed pressure and forces particularly Bernoulli and Pascal's principles. It allows the students to gain knowledge of how topic is applied to daily activities and solve practical problems.
Course Credit	3 units lecture; 1 unit laboratory
Prerequisite	None

Course Title	PHYS 2 – THERMODYNAMICS
Course Description	This course includes temperature and heat, thermal properties of matter, laws of thermodynamics.
Course Credit	3 units lecture; 1 unit laboratory
Prerequisite	None

Course Title	BIO 2 – Cell & Molecular Biology
Course Description	This course deals with the study of the structure and function of cellular organelles and inclusions including the relationship between cell and structure and biochemical reactions. It also includes basic discussions on the central dogma of molecular biology and updates on DNA technology.
Course Credit	3 units lec & 1 unit lab
Prerequisite	Genetics & Biochemistry

Course Title	SC 1 – Earth Science
Course Description	This is a course that deals with the fundamental and historical geology. Geologic process such as rock formation, minerals and soil, weathering, erosion and mass movement, seismology, volcanism and plate tectonics will be emphasize, issues concerning the importance, exploration, utilization and conservation of mineral resources will also be deal with.
Course Credit	3 units
Prerequisite	None



Course Title	CHEM 3 – Biochemistry
Course Description	This course covers the fundamental aspects of biochemistry and the structure and dynamics of important cellular components. The structure properties, functions and metabolism of carbohydrates, proteins, lipids and other important biochemical compounds are also discussed
Course Credit	3 unit lec & 1 unit lab
Prerequisite	Organic Chemistry

Course Title	PHYS 3 – ELECTRICITY AND MAGNETISM
Course Description	The course is designed to discuss knowledge of basic relationship between electricity and magnetism. It includes topics on electrostatics, magnetism, electric and magnetic fields in matter, electrodynamics and electromagnetic waves. It provides the students the relationship between current, voltage and resistance in an electric circuit. Students must gain apart from the principles comprising the area of physics. Upon knowing the relationship between electricity and magnetism, students must be able to apply the concepts and principles to real life students for the life-long learning.
Course Credit	3 units lecture; 1 unit laboratory
Prerequisite	General Physics 1

Course Title	SC 2 – METEOROLOGY
Course Description	This deals with the study of fundamental atmospheric process such as weather and climate. Emphasis will be on elements of weather cloud formation, processes, seasonal winds, ITCZ and tropical cyclones. The issues of climate change , mitigation and adaptation will be discussed.
Course Credit	3 units
Prerequisite	None

Course Title	CHEM 4 – Analytical Chemistry
Course Description	This course involves the theories and principles important to the practice of analytical chemistry. It involves a discussion of the techniques, methods and instrumentation involved in determining the amount of constituents in samples. Particular attention is given to stoichiometry problems.
Course Credit	3 units lec & 2 units lab
Prerequisite	Inorganic Chemistry



Course Title	BIO 3 – Microbiology & Parasitology
Course Description	This course deals with the study of bacteria, viruses, protozoan, fungi and helminths , their general characteristics, pathogenicity source and mode of transmission. This course also covers the principles that underlie infection, disease control and prevention, health and environment as well as immunity. The impact of microorganisms on human health and environment as well as their applications in industry are also given emphasis.
Course Credit	3 units lec & 1 units lab
Prerequisite	None

Course Title	SC 3 – ASTRONOMY
Course Description	This course deals with the various motions observed in the heavens and the fundamental physical laws that govern them This also includes a discussion of the theories behind the formation of the solar system and other astronomical bodies.
Course Credit	3 units
Prerequisite	None

Course Title	PHYS 5 – WAVES & OPTICS
Course Description	This course discusses the fundamental concepts of mechanical and electromagnetic waves. It describes the production and propagation of waves, its characteristics, types and properties. It also deals with simple harmonic motion. This course also gives emphasis on the nature and duality of light with emphasis on physical and geometric optics. Learning waves and optics allows the students to gain insight on the importance of waves on daily activities and applies the concepts and principles in problem solving.
Course Credit	3 units lec & 1 unit lab
Prerequisite	Electricity & Magnetism

Course Title	SC 4 – ENVIRONMENTAL SCIENCE
Course Description	This course deals with the general concepts and principles pertaining to complex pattern of interaction between the physical environment and biological communities on earth. Emphasis is also given on the current environmental issues and concerns as well as disaster risk management techniques.
Course Credit	3 units
Prerequisite	None



Course Title	BIO 4 - Anatomy & Physiology
Course Description	This course deals with the fundamental structures of the human body and their corresponding functions. It emphasizes the integration of the organ systems in relation to nominal health and provides information on association disorders.
Course Credit	3 units lec & 1 unit lab
Prerequisite	None
Course Title	PHYS 4 – MODERN PHYSICS
Course Description	This course covers topics including relativity photoelectric effect, Bohr model wave particle duality quantum mechanics.
Course Credit	3 units
Prerequisite	None

Course Title	GES 1 – THE TEACHING OF SCIENCE
Course Description	Deals with the goals, materials, content, assessment, management and methods of teaching science, at the secondary level, provides opportunities for class observation and demonstration teaching.
Course Credit	3 units
Prerequisite	

Course Title	GES 2 – TECHNOLOGY FOR TEACHING AND LEARNING 2 (INSTRUMENTATION AND TECHNOLOGY IN GENERAL SCIENCE)
Course Description	This course will focus on the application, design, production, utilization and evaluation of Information and Communications Technology (ICT) materials for teaching and learning in y Education Program. The major requirements of this course is an ICT-integrated Project-based Learning Plan aligned to the K to 12 curriculum. All the learning and course requirements will revolve around the student-teacher developed Learning Plan.
Course Credit	3 units
Prerequisite	Technology for Teaching & Learning 1, Assessment of Learning 1

Course Title	GES 3 – RESEARCH IN SCIENCE
Course Description	The course aims to prepare prospective general science teachers to undertake an undergraduate research project. It gives teachers the opportunity to conduct researches that address problems, issues and concerns in general science teaching and learning. It also showcases their research skills through the application of the biology-chemistry content and processes they have learned.
Course Credit	3 units
Prerequisite	Educational Research