



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

MAJOR IN MATHEMATICS

Course Title	MT 1 – HISTORY OF MATHEMATICS
Course Description	This course presents the humanistic aspects of mathematics which provides the historical content and timeline that led to the present understanding and applications of the different branches of mathematics.
Course Credit	3 units
Prerequisite	None

Course Title	MT 2 – COLLEGE & ADVANCED ALGEBRA
Course Description	This course builds upon the students' knowledge and properties of the real number system, operations on different types of algebraic expressions and the solutions of various types of equations and inequalities. The course also covers the pre-requisites to trigonometry and calculus, specifically transcendental and non-transcendental functions including the characteristics of the graphs and applications.
Course Credit	3 units
Prerequisite	None



Course Title	MT 3 – TRIGONOMETRY
Course Description	The course introduces the students to circular and trigonometric functions, trigonometric identities, and to the polar coordinate system. The students then apply concepts in these topics to applications in problem solving.
Course Credit	3 units
Prerequisite	None

Course Title	MT 4 – PLANE AND SOLID GEOMETRY
Course Description	This course covers topics in Euclidean Geometry. The topics are discussed using both the deductive and inductive methods to conjecture definitions, corollaries, postulates and theorems on plane and solid geometry.
Course Credit	3 units
Prerequisite	College & Advance Algebra

Course Title	MT 5 – LOGIC AND SET THEORY
Course Description	The course is a study of mathematical logic, which covers topics such as propositions, logical operations, rules of replacement, rules of inference, algebra of logic quantifiers. It also includes a discussion of elementary theory of sets such as fundamental concepts of sets, set theorems and set operations.
Course Credit	3 units
Prerequisite	None

Course Title	MT 6 – ELEMENTARY STATISTICS AND PROBABILITY
Course Description	This course equips the students with the basic statistical tools to understand various phenomena. The topics on mean, variance, sampling and estimation eventually allow the students to be able to perform hypothesis testing on real-life problems from different fields. The course includes applications and data analysis with computations carried out using SPSS.
Course Credit	3 units
Prerequisite	None

Course Title	MT 7 – CALCULUS I WITH ANALYTIC GEOMETRY
Course Description	The course equips the students with knowledge and skills needed to be able to determine limits of functions, to differentiate, and to integrate algebraic, exponential, logarithmic and trigonometric function in one variable. It also includes exposure to more challenging problems covering continuity and areas of regions.
Course Credit	4 units
Prerequisite	College & Advanced Algebra, Trigonometry



Course Title	MT 8 – MODERN GEOMETRY
Course Description	The course is an enrichment of the course in Euclidean Geometry. It discusses the properties and applications of other types of geometries, such as finite geometry, non-Euclidean geometry and projective geometry.
Course Credit	3 units
Prerequisite	Plane & Solid Geometry, Logic & Set Theory

Course Title	MT 9 – CALCULUS II
Course Description	The course aims to further develop the students understanding of differential and integral calculus. It covers the methods and techniques of integration, indeterminate forms, and improper integrals of algebraic and transcendental functions.
Course Credit	4 units
Prerequisite	Calculus I with Analytic Geometry

Course Title	MT 10 – NUMBER THEORY
Course Description	The course is a study of the properties of number and their proofs. It presents the students with different methods of mathematical proving. It focuses on the discussion of the set of integers that including Unique Prime Factorization, Divisibility Rules, Euclidean Algorithm, Linear Congruence and Linear Diophantine Equations.
Course Credit	3 units
Prerequisite	College & Advanced Algebra, Logic & Set Theory

Course Title	MT 11 – LINEAR ALGEBRA
Course Description	The course provides a basic understanding of vector spaces, including the study of matrices, their properties and matrix operations. It also covers the application of matrices in systems of linear equations and linear transformations.
Course Credit	3 units
Prerequisite	Logic & Set Theory

Course Title	MT 12 – CALCULUS III
Course Description	The course aims to provide students with understanding of the applications of differentiation and integration in sequences, infinite series, power series, as well as multiple integration for functions in several variables. Moreover, students will be able to apply these concepts to problem solving.
Course Credit	3 units
Prerequisite	Calculus II



Course Title	MT 13 – ADVANCED STATISTICS
Course Description	This course deals with non-parametric statistics. It includes the topics on test of association such as Spearman rho, Phi coefficient, contingency coefficient, biserial and test of differences such as Mann-Whitney U, Wilcoxon. It includes applications and data analysis with computation carried out using SPSS.
Course Credit	3 units
Prerequisite	Elementary Statistics & Probability

Course Title	MT 14 – PROBLEM SOLVING, MATHEMATICAL INVESTIGATION & MODELING
Course Description	The course deepens and further enhances the students’ understanding of real-life applications of mathematics through investigating, pattern finding, testing and justifying conjectures, and making generalization.
Course Credit	3 units
Prerequisite	College & Advanced Algebra, Geometry, Logic & Set Theory

Course Title	MT 20 – TECHNOLOGY FOR TEACHING AND LEARNING 2 (INSTRUMENTATION AND TECHNOLOGY IN MATHEMATICS)
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 Mathematics 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	MT 16 – PRINCIPLES AND STRATEGIES FOR TEACHING MATHEMATICS
Course Description	This course deals with the application of the principles, the strategies in teaching and philosophical foundations of teaching. These are then applied in lesson planning and microteaching.
Course Credit	3 units
Prerequisite	Facilitating Learner-Centered Teaching, College & Advanced Algebra



Course Title	MT 17 – ABSTRACT ALGEBRA
Course Description	The course is a study of basic algebraic structures, such as groups, rings,, integral domains and fields. It provides a basic understanding of relations focusing on isomorphism. It aims to enhance the student’s skills in constructing mathematical proofs and develop their symbolic thinking and appreciation of mathematical structures.
Course Credit	3 units
Prerequisite	Logic & Set Theory

Course Title	MT 18 – RESEARCH IN MATHEMATICS
Course Description	The course aims to prepare prospective mathematics teachers to undertake an undergraduate research project. It gives teachers the opportunity to conduct researches that address problems, issues and concerns in mathematics teaching and learning. It also showcases their research skills through the application of the mathematical content and processes they have learned.
Course Credit	4 units
Prerequisite	Educational Research

Course Title	MT 19 – ASSESSMENT AND EVALUATION IN MATHEMATICS
Course Description	This course deals with traditional and authentic assessment methods for evaluating mathematical learning. It covers the purposes of instruction and assessment, the relationship of assessment to content and performance standards in assessment specifically in mathematics teaching.
Course Credit	3 units
Prerequisite	Advanced Statistics

Course Title	MT 15 – MATHEMATICS OF INVESTMENT
Course Description	The course introduces the student with a basic understanding of the applications of mathematical concepts and skills in economics, business and accounting. It also includes determining time value of money using simple and compound interest and discounting, variation of annuities, amortization, stocks and bonds, and sinking fund.
Course Credit	3 units
Prerequisite	College and Advanced Algebra

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