



SENIOR HIGH SCHOOL STEM

GRADE 11 SUBJECTS

Core Subject Title: Oral Communication (Eng 1)

Core Subject Description:

The development of listening and speaking skills and strategies for effective communication in various situations.

Core Subject Title: Komunikasyon at Pananaliksik sa Wika at Kulturang Pilipino (Fil 1)

Deskripsyon ng Kurso:

Pag-aaral tungo sa pananaliksik ukol sa kalikasan, katangian, pag-unlad, gamit at paggamit ng Wikang Filipino sa mga sitwasyong komunikatibo at kultural sa lipunang Pilipino.

Core Subject Title: Pre-Calculus

Subject Description:

At the end of the course, the students must be able to apply concepts and solve problems involving conic sections, systems of nonlinear equations, series and mathematical induction, circular and trigonometric functions, trigonometric identities, and polar coordinate system.

Core Subject Title: Earth and Life Science (Sci 1.1)

Core Subject Description:

This learning area is designed to provide a general background for the understanding of Earth Science and Biology. It presents the history of the Earth through geologic time. It discusses the Earth's structure, composition, and processes. Issues, concerns, and problems pertaining to natural hazards are also included. It also deals with the basic principles and processes in the study of biology. It covers life processes and interactions at the cellular, organism, population, and ecosystem levels.

Core Subject Title: Physical Education and Health 1

Subject Description:

Physical Education and Health offers experiential learning for learners to adopt an active life for fitness and lifelong health. The knowledge, skills and understanding which include physical and health literacy competencies support them in accessing, synthesizing and evaluating information; making informed decisions; enhancing and advocating their own as well as others' fitness and health.

This course on exercise for fitness enables the learner to set goals, monitor one's participation in aerobic and muscle- and bone-strengthening activities and constantly evaluate how well one has integrated this into one's personal lifestyle. It consists of an array of offerings which learners can choose from.

Core Subject Title: Media and Information Literacy (ICT 1)

Core Subject Description:

The course introduces the learners to basic understanding of media and information as channels of communication and tools for the development of individuals and societies. It also aims to



develop students to be creative and critical thinkers as well as responsible users and competent producers of media and information

Core Subject Title: Understanding Culture, Society and Politics (Soc 1)

Course Description:

This course uses insights from Anthropology, Political Science, and Sociology to develop students' awareness of cultural, social and political dynamics, and sensitivity to cultural diversity; provide them with an understanding of how culture, human agency, society and politics work; and engage them in the examination of the country's current human development goals.

At the end of the course, students should acquire ideas about human cultures, human agency, society and politics; recognize cultural relativism and social inclusiveness to overcome prejudices; and develop social and cultural competence to guide their interactions with groups, communities, networks, and institutions.

Core Subject Title: Introduction to the Philosophy of the Human Person (Philo 1)

Core Subject Description:

An initiation to the activity and process of philosophical reflection as a search for a synoptic vision of life. Topics to be discussed include the human experiences of embodiment, being in the world with others and the environment, freedom, intersubjectivity, sociality, being unto death.

Course objectives: At the end of the course, the student should be able to:

1. Reflect on their daily experiences from a holistic point of view
2. Acquire Critical and Analytical Thinking skills
3. Apply their critical and analytical thinking skills to the affairs of daily life
4. Become truthful, environment-friendly and service-oriented
5. Actively committed to the development of a more humane society
6. Articulate their own philosophy of life

Core Subject Title: General Mathematics (Math 1)

Core Subject Description:

At the end of the course, the students must know how to solve problems involving rational, exponential and logarithmic functions; to solve business-related problems; and to apply logic to real-life situations.

Core Subject Title: Reading and Writing

Core Subject Description:

The development of reading and writing skills as applied to a wide range of materials other than poetry, fiction and drama

Core Subject Title: Pagbasa at Pagsusuri ng Iba't Ibang Teksto Tungo sa Pananaliksik (Fil 2)

Deskripsyon ng Kurso:

Pag-aaral sa proseso ng pagbasa at pagsusuri ng iba't ibang anyo at uri ng teksto na nakatutulong sa pagbuo at pagsulat ng sistematikong pananaliksik.



Subject Title: Disaster Readiness and Risk Reduction

Subject Description:

This course focuses on the application of scientific knowledge and the solution of practical problems in a physical environment. It is designed to bridge the gap between theoretical science and daily living.

Core Subject Title: Personal Development (PD 1)

Core Subject Description:

This course makes senior high school students aware of the developmental stage that they are in, for them to better understand themselves and the significant people around them as they make important career decisions as adolescents. The course consists of modules, each of which addresses a key concern in personal development.

Using the experiential learning approach, each module invites students to explore specific themes in their development. Personal reflections, sharing, and lectures help reveal and articulate relevant concepts, theories, and tools in different areas in psychology.

Core Subject Title: Statistics and Probability (Stat 1)

Core Subject Description:

At the end of the course, the students must know how to find the mean and variance of a random variable, to apply sampling techniques and distributions, to estimate population mean and proportion, to perform hypothesis testing on population mean and proportion, and to perform correlation and regression analyses on real-life problems.

Core Subject Title: Physical Education and Health 2 (P.E 2)

Subject Description: Physical Education and Health offers experiential learning for learners to adopt an active life for fitness and lifelong health. The knowledge, skills and understanding which include physical and health literacy competencies support them in accessing, synthesizing and evaluating information; making informed decisions; enhancing and advocating their own as well as others' fitness and health.

This course is comprised of individual, dual and team sports in competitive and recreational settings. It consists of an array of offerings which learners can choose from.

Core Subject Title: Practical Research 1 (Res 1)

Subject Description:

This course develops critical thinking and problem-solving skills through qualitative research

Core Subject Title: Basic Calculus

Subject Description:

At the end of the course, the students must know how to determine the limit of a function, differentiate, and integrate algebraic, exponential, logarithmic, and trigonometric functions in one variable, and to formulate and solve problems involving continuity, extreme values, related rates, population models, and areas of plane regions.



SUBJECT TITLE: GENERAL BIOLOGY 1

Subject Description:

This subject is designed to enhance the understanding of the principles and concepts in the study of biology, particularly life processes at the cellular and molecular levels. It also covers the transformation of energy in organisms.

Grade 12 Subjects

Core Subject Title: Contemporary Philippine Arts from the Regions (Hums 1)

Core Subject Description:

The subject covers various contemporary arts practices of the region where the school is located. It aims to provide students with an appreciation of a broad range of styles in the various disciplines with consideration on their elements and principles, and engage them to an integrative approach in studying arts. Through this subject, students will broaden and acquire the necessary creative tools that open opportunities in pursuing their individual career goals and aspirations.

Core Subject Title: Physical Education and Health 3

Subject Description:

Physical Education and Health offers experiential learning for learners to adopt an active life for fitness and lifelong health. The knowledge, skills and understanding which include physical and health literacy competencies support them in accessing, synthesizing and evaluating information; making informed decisions; enhancing and advocating their own as well as others' fitness and health.

This course on dance includes rhythmical movement patterns; the promotion and appreciation of Philippine folk dance, indigenous and traditional dances as well as other dance forms. It consists of an array of offerings which learners can choose from.

Core Subject Title: Practical Research 2 (Res 2)

Common Subject Description:

This course develops critical thinking and problem-solving skills through quantitative research

Subject Title: English for Academic and Professional Purposes (English 3)

Subject Description:

The development of communication skills in English for academic and professional purposes.

Titulo ng Kurso: Filipino sa Piling Larangan (Akademik)(Fil 3)

Diskripsyon ng Kurso:

Pagsulat ng iba't ibang anyo ng sulating lilingang sa mga kakayahang magpahayag tungo sa mabisa, mapanuri, at masinop na pagsusulat sa piniling larangan.



Subject Title: General Biology 2

Subject Description:

This subject is designed to enhance the understanding of the principles and concepts in the study of biology, particularly heredity and variation, and the diversity of living organisms, their structure, function, and evolution.

Subject Title: General Chemistry 1 & 2

Subject Description:

Composition, structure, and properties of matter; quantitative principles, kinetics, and energetics of transformations of matter; and fundamental concepts of organic chemistry

Core Subject Title: Physical Education and Health 4

Core Subject Description: Physical Education and Health offers experiential learning for learners to adopt an active life for fitness and lifelong health. The knowledge, skills and understanding which include physical and health literacy competencies support them in accessing, synthesizing and evaluating information; making informed decisions; enhancing and advocating their own as well as others' fitness and health.

This course on recreational activities are associated with outdoor, natural or semi-natural settings; it enables learners to move safely and competently in these settings while making a positive relationship with natural environments and promoting their sustainable use. It consists of an array of offerings which learners can choose from.

Core Subject Title: Empowerment Technologies (for the Strand)

Description:

Information and communication technologies as a tool for curating, contextualizing, collaborating, and creating content and experiences for learning in the professional tracks.

Subject Title: Entrepreneurship

Course Description:

This course deals with the concepts, underlying principles, processes and implementation of a business plan. The preliminaries of this course include the following: 1) discussion on the relevance of the course; 2) explanation of key concepts of common competencies; 3) explanation of core competencies relative to the course; and 4) exploration of career opportunities.

Subject Title: General Physics 1

Subject Description:

Mechanics of particles, rigid bodies, and fluids; waves; and heat and thermodynamics using the methods and concepts of algebra, geometry, trigonometry, graphical analysis, and basic calculus

Subject Title: General Physics 2

Course Description:

Electricity and magnetism; optics; the basics of special relativity, atomic and nuclear phenomena using the methods and concepts of algebra, geometry, trigonometry, graphical analysis, and basic calculus.



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Subject Title: Work Immersion

Course Description:

Work Immersion is one of the course requirements for graduation. A Senior High School student has to undergo Work Immersion in an industry that directly relates to the student's postsecondary goal. Through Work Immersion, the students are exposed to and become familiar with work-related environment related to their field of specialization to enhance their competence. Specifically, the students are able to: (i) gain relevant and practical industrial skills under the guidance of industry experts and workers; (ii) appreciate the importance and application of the principles and theories taught in school; (iii) enhance their technical knowledge and skills; (iv) enrich their skills in communications and human relations; and (v) develop good work habits, attitudes, appreciation, and respect for work. These prepare them to meet the needs and challenges of employment or higher education after graduation.