



**BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY
with Area of Specialization in Network Administration**

**Course Descriptions
For the 2018-2019 Curriculum**

SCHOOL OF COMPUTING COMMON PROFESSIONAL COURSES

6COMPRO1L: Computer Programming 1

Units: Lec: 2 Lab: 1

Pre-requisite: None

This is an introductory course in programming which aims to develop skills and concepts that are essential to good programming practice and problem solving. It covers fundamental programming concepts of primitive data types, simple input/output, conditional statements, iterative structures and functions. This course serves as preparation for intermediate programming.

6COMPRO2L: Computer Programming 2

Units: Lec: 3 Lab: 0

Pre-requisite: 6COMPRO1L

This course introduces students to problem solving using a general purpose programming language. The emphasis is to train students to design, implement, test, and debug programs intended to solve computing problems using basic data structures and standard libraries.

6DSALGO: Data Structures and Algorithms

Units: Lec: 2 Lab: 1

Pre-requisite: 6COMPRO2L

This course covers all the basics of programming in the C++ programming language as well as the fundamental concepts and techniques used in object-oriented programming. The course starts with some universal basics, without relying on object concepts, and gradually extends to the advanced issues the student will encounter when using the objective approach.

6APPDEV: Application Development and Emerging Technologies

Units: Lec: 3 Lab: 0

Pre-requisite: 6COMPRO2L

The course introduces mobile application development for the android platform. Android is a software stack for mobile devices that includes an operating system, middleware and key applications. The android SDK provides the tools and APIs as necessary to begin developing applications on the Android platform using the Java programming language. Students will learn skills for creating and deploying Android applications, with particular emphasis on software engineering topics including software architecture, software process, usability and deployment.

6INFOMAN: Information Management**Units: Lec: 2 Lab: 1****Pre-requisite: 6DSALGO**

The course will provide the student with an understanding of the principles of Database Management Systems (DBMSs) successfully, one has to understand the concepts on which they are based. The aims of this course are to familiarize you with the basic concepts underlying a DBMS, show how they are realized in specific systems such as the SQL DBMS, give you some hands-on experience in using a DBMS.

PROFESSIONAL COURSES:**6CFUN: Computing Fundamentals****Units: Lec: 3 Lab: 0****Pre-requisite: NONE**

This course provides an overview of the Computing Industry and Computing profession, including Research and Applications in different fields; an Appreciation of Computing in different fields such as Biology, Sociology, Environment and Gaming; an Understanding of ACM Requirements; an Appreciation of the history of computing and Knowledge of the Key Components of Computer Systems (Organization and Architecture), Malware, Computer Security, Internet and Internet protocols, HTML4/5 and CSS. The course will also provide an overview of the concepts and challenges of the transformational digital economy when people, process, data, and things connect

6DMS: Discrete Mathematics and Structures**Units: Lec: 3 Lab: 0****Pre-requisite: 2MATHWORLD**

This course introduces the foundations of discrete mathematics and structures in the following areas: mathematical reasoning, combinatorial analysis, algorithmic thinking, applications and modelling to Computer Science. Learn and understand logical and mathematical reasoning in order to read, comprehend and construct mathematical arguments in propositional and predicate logic.

6HCI: Human Computer Interaction**Units: Lec: 0 Lab: 3****Pre-requisite: 6CFUN**

The course intends to introduce students to the discipline concerned with the design, evaluation & implementation of various computing systems intended for human use. Emphasis will be placed on understanding human behavior with interactive objects, knowing how to develop and evaluate interactive software using a human-centered approach, and general knowledge of HCI design issues with multiple types of interactive applications.

2ANAGEOM: Analytic Geomtry**Units: Lec: 3 Lab: 0****Pre-requisite: 2MATHWORLD**

The course offers the integration of geometric and algebra concepts. With a proper exposure to basic calculus concepts, teachers will gain more confidence in helping and guiding their students' development of competitive skill in today's highly technological society. The discipline of learning a calculus -based course allows students to acquire higher order thinking skills.

60OPLANG: Object-Oriented Programming**Units: Lec: 0 Lab: 3****Pre-requisite: COMPRO2L**

This course explores an in-depth and extensive object-oriented problem solving approach applying in actual programs. It also focuses on object-oriented design used as a tool for building applications implemented in command-line and graphical user interface (GUI) environments. It will also incorporate logical classes, objects, methods, relationships and other processes with the design of software and applications. The course also introduces the basic concept and practices in creating event-driven programming.

60SAPP: Operating Systems Application**Units: Lec: 0 Lab: 3****Pre-requisite: 6CFUN**

This course introduces concepts of Operating Systems and their applications using Linux that focus on the installation, package management, user management, file system management, network administration, printers and services, maintenance and troubleshooting of Linux systems.

The students will perform concrete hands-on activities including installation procedures, security issues problem solving, and general troubleshooting to prepare them for the CompTIA A+ certification exam.

2CALCULUS: Calculus**Units: Lec: 3 Lab: 0****Pre-requisite: 2MATMWORLD**

The course provides students with experiences on solving problem that require the interpretation of algebra and geometric concepts and the fundamental concepts of Differential and integral Calculus. Specifically, this course tackles the study of rectangular and polar coordinates, graphs of functions and equations of different degrees. It also deals with differentiation of algebraic function and anti-derivatives, techniques of integration and definite integrals. The course discusses the topics from graphical, numerical and analytical standpoint. Ergo, the students are expected to be self-regulated learners

9NATSCN: Natural Sciences**Units: Lec: 3 Lab: 0****Pre-requisite: NONE**

The course is designed for non-science and engineering majors in which its goals are to inculcate understanding and appreciation of the natural world. Natural sciences constitute a comprehensive and integrated survey of the natural sciences. It is comprehensive because it covers chemistry, physics and astronomy at scales ranging from that of an atom (micro world) to that of the universe (macro world). It is integrated in its attempts to show connections among sciences generally treated in isolation. Thus, the progression of the course is from the discussion of very simple systems to more complex systems. Attention will be given to the relevance and have some facility with basic mathematics.

6CNA: Campus Network Architecture**Units: Lec: 2 Lab: 1****Pre-requisite: 6CFUN**

The course presents an overview of the campus network architecture and includes descriptions of various design considerations, topologies, technologies relevant to the design of a full-service campus switching architecture. It introduces students to the key architectural components and services that are necessary to deploy a service-rich campus network. The principles and structure of IP addressing and the fundamentals of Ethernet concept, media, and operations are introduced to provide a foundation. By the end of this course, students will be able to build simple campus LAN architecture, implement IP addressing and configure routers and switches to perform basic routing and switching services such as virtual LANs and inter-VLAN routing.

6CPETHICS: Ethics For The Computing Professional**Units: Lec: 3 Lab: 0****Pre-requisite: 6CFUN**

In this course, we will learn about ethical problems that computer scientists face, the codes of ethics of computing professional societies, legal issues involved in technology, and the social implications of computers, computing, and other digital technologies

6SERVERTECH: Server Technologies**Units: Lec: 0 Lab: 3****Pre-requisite: 6OSAPP**

This course provides intensive introduction to multi-user and multi-tasking environment of network operating systems. It also provides how to establish a communication relationship between a server computer and client computers through installation of roles and services. This knowledge area consists of those skills and concepts that are essential to the administration of operating systems on client workstations, networks and software, file systems, policies and procedures. The students will perform concrete, hands-on experiences including installation and configuration procedures, security implementation, back up procedures and remote access.

2PROBSTAT: Probability and Statistics**Units: Lec: 3 Lab: 0****Pre-Requisite: 2MATHWORLD**

The course covers the definition, history and uses of statistics, collection of data and presentation of the data gathered. It also covers measures of central location and variability, probability and statistical inferences such as normal distribution hypothesis testing, simple regression, simple correlation, analysis of variance and chi-square distribution.

6ADVANS: Advanced Routing and Switching**Units: Lec: 2 Lab: 1****Pre-requisite: 6CNA**

The course focuses on the advanced routing and switching services and operations of routers and switches. The students are expected to learn different approaches in the application of Static and Dynamic routing protocols, use advanced security features of routers and switches in packet forwarding within and outside the network, and apply advanced IP addressing services. By the end of this course, the students are able to configure routers and switches in a simulated environment and resolve common issues in implementing VLANs, Routing protocols, VTP, Etherchannel, Spanning Tree, DHCP, ACL, and NAT in a larger and more complex network setup.

6INFOSEC: Information Assurance and Security**Units: Lec: 2 Lab: 1****Pre-requisite: 6INFOMAN**

This course focuses on the fundamentals of information security that are used in protecting both the information present in computer storage as well as information traveling over computer networks. It will focus on topics as fundamentals of information security, computer security technology and principles, access control mechanisms, cryptography algorithms, software security, physical security and security management and risk assessment. By the end of this course, the student will be able to describe major information security issues and trends, and advise an individual seeking to protect his or her data.

6PROJMGMT: Project Management**Units: Lec: 3 Lab: 0****Pre-requisite: 6INFOMAN**

This course provides students with an understanding of the theory and practice of project management through an integrated view of the concepts, skills tools and techniques involved in the management of information systems development projects. It focuses on introduction to project management, project management processes and the project management knowledge areas. Students are expected to apply the concepts and theories of project management in information technology projects specifically in project selection, planning, execution and monitoring and controlling. Students are also expected to engage in the review of case studies of organizations using project management processes in managing IT projects.

2LINALGEB: Linear Algebra**Units: Lec: 3 Lab: 0****Pre-requisite: 2MATMWORLD**

The course determinants, linear spaces, systems of linear equations, linear functions of a vector argument, coordinate transformations, the canonical form of the matrix of a linear operator, bilinear and quadratic forms, Euclidean spaces, unitary spaces, quadratic form in Euclidean and unitary spaces, finite dimensional space.

9CBPHYS: Calculus-Based Physics**Units: Lec: 3 Lab: 0****Pre-Requisite: CALCULUS**

The course covers the study of mechanics, waves, sound and heat.

9CBPHYSL: Calculus-Based Physics Laboratory**Units: Lec: 0 Lab: 1****Pre-requisite: CALCULUS****Co-requisite: 9CBPHYS**

This course is designed for students in the taking up the fundamental concepts of Physics. This course studies the conceptual foundations of Newtonian mechanics and their relevant consequences. A good facility in basic mathematics is needed to understand the discussions and to solve problems

6CLOUDCOMP: Cloud Computing**Units: Lec: 0 Lab: 3****Pre-requisite: 6INFOASEC**

The course introduces students to cloud computing concepts of how and why cloud systems work, as well as the different cloud technologies and services. The course exposes students to different views of understanding cloud computing such as theoretical, technical and commercial aspects. The course utilizes AWS Academy curriculum designed to help students develop technical expertise in cloud computing and prepare them for the AWS Certified Solutions Architect Associate certification exam. The course covers technical essentials which are AWS foundational services, and architecting on AWS which covers the fundamentals of building IT infrastructure.

6WANTECH: Wide Area Network Technologies**Units: Lec: 0 Lab: 3****Pre-requisite: 6ADVANRS**

This course discusses the WAN technologies and network services required by converged applications in a complex network. It enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols (WAN protocols).

9CHEM: Chemistry/L**Units: Lec: 2 Lab: 1****Pre-requisite: NONE**

This course is an integration of lecture and laboratory classes, with a time allotment of 3 lecture and 2 hours of laboratory a week, respectively. It adapts both theoretical and practical approaches in order to enable students to gain mastery of Chemistry concepts involving inorganic, organic, and biochemistry. The inorganic chemistry component of the course includes topics on the units of measurements: Energy and Matter; Atomic Theory and Structure; Chemical Bonding; Chemical Formulas and Reactions; Gas Laws; Acids, Bases and Salts; and Liquid solutions. The organic chemistry part explores on the various kinds of organic compounds including the hydrocarbons and their derivatives; and different functional groups and their structural formulas. Finally, the biochemistry portion deals with chief biomolecules-carbohydrates, lipids, proteins, and nucleic acids. They are studied in terms of structure, nature and occurrence. Essential substances, vitamins and hormones, are discussed as well as their impact and significance to everyday life.

6NSECURE: Network Security Implementation**Units: Lec: 0 Lab: 3****Pre-requisite: 6ADVANRS**

This course is a hands-on, career-oriented e-learning solution with an emphasis on practical experience to help students develop special skills to advance their careers. The course helps prepare students for entry-level security career opportunities. Provides a next step to enhance their networking skill set and help meet the growing demand for network security professionals. The curriculum provides an introduction security concepts and skills needed for the installation, troubleshooting and monitoring of network devices to maintain the integrity, confidentiality of data and devices.

6NETCAP1: Network Independent Study 1**Units: Lec: 3 Lab: 0****Pre-requisite: 6SERVERTECH, 6WANTECH**

The course applies the knowledge and skills acquired from the networking course to complete a study. The nature of the study is to develop a significant and functional network design. Students are required to conduct research, design and develop solutions to address identified problems or needs by a specific locale or in general. They are expected to apply principles of network design, with considerations on cost, scalability, fault tolerance, security and manageability. The students are expected to undergo a research project proposal, document their work and submit and present the output by the end of the semester through a preliminary oral defense.

6WEBTECHL: Web Technologies Laboratory**Units: Lec: 0 Lab: 3****Pre-requisite: 6COMPRO1L**

This course is designed to provide a thorough working knowledge in defining content of web pages using Hypertext Markup Language 5 (HTML 5) integrated with creative layout using CSS3 (Cascading Style Sheet 3). Moreover, students are able to learn managing the behaviors of web pages through the use of client side which is JavaScript and PHP. Students will also learn the basic web frameworks such jQuery, Bootstrap and CMS. The course will also focus in recommended practices in utilizing and creating elements or widgets considering accessibility feature in terms of target audience. Generally, the subject will develop the practical skills in developing static and dynamic web pages for a specific target.

6OJT: On-the-Job Training**Course Credit: 6****Pre-requisite: 4thYear Standing, Permission of Dean or Program Chair**

This course exposes students to a real workplace where they can explore and apply the theories and skills gained from school. This course also provides them additional knowledge, skills and experiences in preparation for a real-life job after graduation.

6NETCAP2: Network Independent Study 2**Units: Lec: 3 Lab: 0****Pre-requisite: 6NETCAP1**

Students as researchers are expected to develop and present a functional network design or technological application with supported documentation as a continuation of the approved proposal from 6STUDY1. This course requires students to undergo final oral defense for their

Capstone Project. The complete project and manuscript are required to be submitted and presented in accordance with the specified guidelines.

ELECTIVES:

6ADVDBASE: Advanced Database Systems

Units: Lec: 0 Lab: 3

Pre-requisite: 6INFOMAN

The course will provide the student with an understanding of the principles of Database Administration Fundamentals and covers introductory knowledge and skills including: relational databases; core database concepts; relational database concepts; security requirements for databases and the data stored in them; database objects such as tables and views; graphical tools and SQL scripts; database queries; and stored procedures.

6ASI: Application and Systems Integration

Units: Lec: 0 Lab: 3

Pre-requisite: 6DSALGO, 6OOPLANG

This course focuses on the integration of application software, information systems and computer systems. It examines strategies and methods of physical and functionally combine separate but interdependent systems into an integrated whole. Thus, enabling each separate system to exchange data flawlessly with each other. The course will explore different integration strategies, tools and techniques as well as proven management practices for integration projects.

6BCHAIN: Blockchain Technology

Units: Lec: 2 Lab: 1

Pre-requisite: 6INFOMAN, INFOASEC

This course explores the fundamentals of the public, transparent, secure, immutable and distributed database called block chain. Block chains can be used to record and transfer any digital asset not just currency. This course will introduce students to the workings and applications of this potentially disruptive technology. Its potential impact on financial services, government, banking, contracting and identity management.

6ENARCH: Enterprise Architecture

Units: Lec: 3 Lab: 0

Pre-requisite: 6PROJMGMT

This course provides an exposure to the foundational concepts of enterprise architecture. Provide students with the foundational knowledge needed to understand how EA serves to integrate strategic, business, and technology planning methods, which support enterprise-wide information technology resource development and governance in the context of business requirements. It is designed to cover the theory, frameworks, principles and best practices of enterprise architecture then move to a practical, comprehensive approach to delivering the subject matter involving real-world case studies and project discussions.

6ENAD: Entrepreneurship for Network Administrators

Units: Lec: 3 Lab: 0

Pre-requisite: 6PROJMGMT

This course exposes students to the entrepreneurial mindset and the fundamentals of entrepreneurship. It covers the principles and theories of technopreneurship. It will allow students to understand the nature of business development in the context of existing organizations and of new business start-ups. It will also allow them to understand the concepts

of innovation and creativity and the roles that both play in entrepreneurship and business development. Students are expected to develop a feasible IT business plan.

6IMSFTWENG: Implementation and Management of Software Engineering

Units: Lec: 3 Lab: 0

Pre-requisite: 6SYSAD, 6INFOMAN

The course introduces the fundamentals and principles of Software Engineering. Furthermore, it covers the study of software structure, designs and types along with the underlying Software Engineering Ethics. Throughout the course, one specific software (stand-alone, web-based, LAN based, mobile application or any similar software) will be developed and scrutinized by guest panelists. The careful observation of the differences of one type of software with another will be taken thoroughly. A variety of concepts, principles, techniques, and tools are presented, encompassing topics such as software processes, project management, people management, software requirements, system models, architectural and detailed design, user interface design, programming practices, verification and validation, and software evolution.

6SHWINT: Software and Hardware Interfacing

Units: Lec: 0 Lab: 3

Pre-requisite: 6CFUN

This course familiarizes students with the basic electronic components and their functions such as resistors, push button switches, LEDs and 74 series family of logic gates. Furthermore, students are expected to design basic circuits correctly using the said components, implemented in a solderless breadboard along with their necessary computations.

Also, the course will let students create robot designs. Students are expected to embed programs in a hardware, and interface them with a software, satisfying PEAS (Performance measure, Environment, Actuators and Sensors) considerations.

6SYSAD: Systems Analysis and Design

Units: Lec: 3 Lab: 0

Pre-requisite: 6COMPRO2L

This course introduces the tools and techniques commonly used by systems analysts in designing, building and documenting information systems. Structured tools for describing data flow, process flow, file design, input and output design, and program specifications following the system development life cycle and prototyping are covered. Typically, students work in teams to apply the theoretical concepts covered in class to a real-life project proposal and produce analysis and design reports. Guidelines and proper procedures in creating the documentation of the proposed system to be created are also discussed.

6WEBSYS: Web Systems

Units: Lec: 0 Lab: 3

Pre-requisite: 6WEBTECHL

This course focuses on the design, implementation and testing of web-based applications and social software, and the incorporation of a variety of digital media into these applications. Students are exposed to a range of web technologies, both client-side and server-side.

GENERAL EDUCATION COURSES:

2MATHWORLD: Mathematics in the Modern World

Units: Lec: 3 Lab: 0

Pre-requisite: None

This course deals with nature of mathematics, appreciation of its practical, intellectual, and aesthetic dimensions, and application of mathematical tools in daily life. The course begins with an introduction to the nature of mathematics as an exploration of patterns (in nature and the environment) and as an application of inductive and deductive reasoning. By exploring these topics, students are encouraged to go beyond the typical understanding of mathematics as merely a set of formulas but as a source of aesthetics in patterns of nature, for example, and a rich language in itself (and of science) governed by logic and reasoning. The course then proceeds to survey ways in which mathematics provides a tool for understanding and dealing with various aspects of present-day living, such as managing personal finances, making social choices, appreciating geometric designs, understanding codes used in data transmission and security, and dividing limited resources fairly. These aspects will provide opportunities for actually doing mathematics in a broad range of exercises that bring out the various dimensions of mathematics as a way of knowing, and test the students' understanding and capacity. (CMO No, 20, series of 2013).

4FYE1: Big History: Big Bang to the Future

Units: Lec: 3 Lab: 0

Pre-requisite: None

Big History is an interdisciplinary course that deals with the students' journey through time and space with the Catholic intellectual tradition as an integral component of the course. It describes Big History in the context of God's continuing work of creation. It discusses the first moments of the universe and the formation of stars and planets; the early life on earth and the development of human civilization and consciousness. Included in the course is the rise of humankind until the peering over the threshold of the present and into future.

9STS: Science, Technology and Society

Units: Lec: 3 Lab: 0

Pre-requisite: None

The course deals with interactions between science and technology and social, cultural, political, and economic contexts that shape and are shaped by them. (CMO No. 20, series of 2013). This interdisciplinary course engages students to confront the realities brought about by science and technology in society. Such realities pervade the personal, the public, and the global aspects of our living and are integral to human development. Scientific knowledge and technological development happen in the context of society with all its socio-political, cultural, economic, and philosophical underpinnings at play. This course seeks to instill reflective knowledge in the students that they are able to live the good life and display ethical decision making in the face of scientific and technological advancement. This course includes mandatory topics on climate change and environmental awareness.

THEOLOGY 101: Theological Foundations: Judeo-Christian Tradition and Sacred Scriptures

Units: Lec: 3 Lab: 0

Pre-requisite None

This foundational course in theology is designed to equip the students with the basic knowledge in the study of Judeo-Christian Tradition and Sacred Scriptures based on the Second Vatican Council, which are fundamental foundations in the Catholic Faith. The subject is geared towards a deeper understanding and appreciation of Catholic Faith that is socially and contemporarily relevant.

4FYE2 Big History: Through the Lens of Big History

Units: Lec: 3 Lab: 0

Pre-requisite: 4FYE1

This is an interdisciplinary course that explores the theories, concepts and approaches of various disciplines through the lens of Big History. Students grasp an appreciation of the disciplines utilizing Big History as a framework.

THEOLOGY 102: Special Issues in Catholic Theology

Units: Lec: 3 Lab: 0

Pre-requisite: THEOLOGY101

This course is designed to address special issues that confront college students today in relation to their faith as Christians in discerning the Signs of the Times. It explores variety of moral issues that impact the individual, the family, and the community. The course enables the students to clarify their values and eventually pursue objective moral values amidst the issues that they meet head-on.

1PURCOMM Purposive Communication

Units: Lec: 3 Lab: 0

Pre-requisite: None

The five skills of communication (listening, speaking, reading, writing and viewing) are studied and simulated in advanced academic settings. The purpose of these combined activities is to enable students to practice strategies of communication with a clear purpose and audience in mind, guided by the criteria of effective communication and the appropriate language. Further, the description highlights conversing intelligently, reporting on group work and/or assignments, writing and delivering a formal speech, writing minutes of the meetings and similar documents, preparing a research or technical paper, and making audio-visual or web-based presentations. At the end of the course, students should be able to listen, comprehend, critique and respond to live or recorded conversations, speak in public with confidence, explain extended texts in their own words using examples and other aids to bolster their explanation, while texts ranging from a simple report to a full-length technical or research paper and prepare an audio visual or web-based presentation on an assigned topic.

4READPHILHIS: Readings in Philippine History

Units: Lec: 3 Lab: 0

Pre-requisite: None

The course analyses Philippine history from multiple perspectives through the lens of selected primary sources coming from various disciplines and of different genres. Students are given opportunities to analyse the author's background and main arguments, compare different points of view, identify biases and examine the evidences presented in the document. The discussions will tackle traditional topics in history and other interdisciplinary themes that will deepen and broaden their understanding of Philippine political, economic, cultural, social, scientific and religious history. Priority is given to primary materials that could help students develop their analytical and communication skills. The end goal is to develop the historical and critical consciousness of the students so that they will become versatile, articulate broad-minded, morally upright and responsible citizens.

THEOLOGY 103: Christian Spirituality in the Contemporary World

Units: Lec: 3 Lab: 0

Pre-requisite: THEOLOGY102

This course engages students to reflect on their personal and religious experiences to discern the call of transformation and integration vis-à-vis Christian tradition and world realities through the development of the basic skill of theological reflection. With Jesus Christ as model, the students are invited to explore the relevance of their personal spiritual journey and reflect deeply on the ways on how they can live a socially relevant Christian spiritual life.

4ETHICS: Ethics

Units: Lec: 3 Lab: 0

Pre-requisite: None

Ethics deals with principles of ethical behavior in modern society at the level of the person, society, and in interaction with the environment and other shared resources. (CMO 20 s 2013). Morality pertains to the standards of right and wrong that an individual originally picks up from the community. The course discusses the context and principles of ethical behavior in modern society at the level of individual, society, and in interaction with the environment and other shared resources. The course also teaches students to make moral decisions by using dominant moral frameworks and by applying a seven-step moral reasoning model to analyze and solve moral dilemmas. The course is organized according to the three (3) main elements of the moral experience: (a) agent, including context — cultural, communal, and environmental; (b) the act, and (c) reason or framework (for the act).

4ARTAPP: Art Appreciation**Units: Lec: 3 Lab: 0****Pre-requisite: None**

Art Appreciation is a three-unit course that develops students' ability to appreciate, analyse, and critique works of art. Through interdisciplinary and multimodal approaches, this course equips students with a broad knowledge of the practical, historical, philosophical and social relevance of the arts in order to hone students' ability to articulate their understanding of the arts. The course also develops students' competency in researching and curating art as well as conceptualizing, mounting and evaluating art productions. The course aims to develop students' genuine appreciation for Philippine arts by providing them opportunities to explore the diversity and richness and rootedness in Filipino culture.

4CONWORLD: The Contemporary World**Units: Lec: 3 Lab: 0****Pre-requisite: None**

This course introduces students to the contemporary world by examining the multifaceted phenomenon of globalization. Using the various disciplines of the social sciences, it examines the economic, social, political, technological and other transformations that have created an increasing awareness of the interconnectedness of peoples and places around the globe. To this end, the course provides an overview of various debates in global governance, development and sustainability. Beyond exposing the student to the world outside the Philippines, it seeks to inculcate a sense of global citizenship and global ethical responsibility. This course includes mandatory topics on population education in the context of population and demography.

4UNDERSELF: Understanding the Self**Units: Lec: 3 Lab: 0****Pre-requisite: None**

This course is intended to facilitate the exploration of the issues and concerns regarding self and identity to arrive at a better understanding of one's self. It strives to meet this goal by stressing the integration of the personal with the academic—contextualizing matters discussed in the classroom and in the everyday experiences of students—making for better learning, generating a new appreciation for the learning process, and developing a more critical and reflective attitude while enabling them to manage and improve their selves to attain a better quality of life.

4RIZAL: Life and Works of Rizal**Units: Lec: 3 Lab: 0****Pre-requisite: None**

As mandated by Republic Act 1425, this course covers the life and works of the country's national hero, Jose Rizal. Among the topics covered are Rizal's biography and his writing, particularly the novels *Noli Me Tangere* and *El Filibusterismo*, some of his essays, and various correspondences

1LIT12: Great Books

Units: Lec: 3 Lab: 0

Pre-requisite: None

The course explores and studies the great ideas contained in the original works by the greatest literary writers, chronologically, beginning with the works of the Ancient Greeks, which are seminal to classical and Western civilization. It also equips students with the timeless insights of contemporary writers, insights that are at the heart of liberal education. The students will enhance their communication skills by reading, appreciating and critiquing literary works. Moreover, they will understand deeper human behavior by delving into the psyche of writers and characters.

NSTP1: (Literacy Training Service 1/Civic Welfare Training Service1/ROTC1)

Units: Lec: 3 Lab: 0

Pre-requisite: None

The Literacy Training Service I (LTS1), Civic Welfare Training Service (CWTS1) and Reserved Officer Training Course (ROTC1) are components of the university NSTP1 Program that aim to prepare students for NSTP2 or application phase by providing them the basic concepts and theories needed for doing community work. This involves introduction on concepts on self in relation to community and basics of community development theories, practices and processes. For LTS1, same concepts are taught, additional inputs are given on the learning continuum, how to prepare lesson plan and conduct tutorials.

NSTP2: (Literacy Training Service 2/Civic Welfare Training Service2/ROTC2)

Units: Lec: 3 Lab: 0

Pre-requisite: NSTP1

The program involves the implementation of identified project based on community diagnosis such as mural painting, set up library, advocacy/seminar on health, child rights, waste management, disaster management and other issues, facility improvement, sport among others.

7PE 1: Movement Enhancement

Units: Lec: 2 Lab: 0

Pre-requisite: None

This course provides training in different movement patterns and core engagement in conjunction with principles of healthy eating and a physically active life. Students will be able to adapt and transfer the movement competency in different contexts (i.e. use of training equipment)

7PE 2: Fitness Exercises

Units: Lec: 2 Lab: 0

Pre-requisite: 7PE1

This course provides experiences in core stability, strength, and mobility training. It includes goal setting exercise progression and regression and periodic assessments for the development of various fitness components.

7PE 3: Physical Activities towards Health and Fitness 1

Units: Lec: 2 Lab: 0

Pre-requisite: 7PE2

This course will provide physical activities for the purpose of optimizing health and fitness. Students will choose from a menu of course offerings in Dance, Sports and Outdoor and Adventure Activities

7PE 4: Physical Activities towards Health and Fitness 2

Units: Lec: 2 Lab: 0

Pre-requisite: 7PE3

This course will provide physical activities for the purpose of optimizing health and fitness. Students will choose from a menu of course offerings in Dance, Sports and Outdoor and Adventure Activities