



BACHELOR OF SCIENCE IN RADIOLOGIC TECHNOLOGY

Program Description

This is a four-year course leading to the degree of Bachelor of Science in Radiologic Technology. The program is designed to prepare students for employment as radiographers, nuclear medicine technologists or radiation therapy technologists in hospitals, medical offices, cancer centers, community health agencies or industrial facilities where radiation is used for quality control.

Program Outcomes

The goal of Radiologic Technology education is to provide the country with dynamic, competent, socially-conscious, and ethical Radiologic Technologists concerned with the application of state-of-the-art scientific techniques in medical imaging and therapy.

By the end of four-year course, the students are expected to have:

1. Acquired and developed the knowledge of the various physical principles involved in diagnostic imaging and therapeutic applications.
2. Developed awareness of the risks involved in the application of various radiant energies (e.g. x-rays) to human diagnostic, therapeutic or research purposes and ways of minimizing such risks.
3. Developed the skills of proper positioning of patients in the different procedures called for in any particular employing appropriate exposure to factors to achieve desired results.
4. Acquired and developed knowledge, attitudes, values and skills necessary to contribute to the overall social, mental, physical health of the community and country.
5. Respond to the technological advancement in the field of Radiologic Sciences thru research and continuing professional development.



BACHELOR OF SCIENCE IN RADIOLOGIC TECHNOLOGY

FIRST YEAR

First Semester

		No. of hrs.		RLE		Total Units	Pre-requisites	Co-requisites
		Lec	Lab	SL	C			
COPHYSICS	College Physics	2	1	0	0	3		
HUMANAPHY	Human Anatomy and Physiology	2	1	0	0	3		
GEDCORE03	Purposive Communication	3	0	0	0	3		
RT1INTROHC	Introduction to Radiologic Technology And Health Care	3	0	0	0	3		
PHYSEDUC1	Physical Education1	2	0	0	0	2		
NSTPCWTS1	National Service Training Program CWTS-1	3	0	0	0	3		
RCIREED01	Values and Leadership of Jesus Christ	2	0	0	0	2		
RCICALL01	Computer Aided Language Learning Program 1	0	1	0	0	1		
Total		17	3	0	0	20		

Second Semester

		No. of hrs.		RLE		Total Units	Pre-requisites	Co-requisites
		Lec	Lab	SL	C			
GEDCORE02	Readings in Philippine History	3	0	0	0	3		
GEDCORE04	Mathematics in the Modern World	3	0	0	0	3		
RTMEDTERM	Medical Terminology	3	0	0	0	3	HUMANAPHY	
RT2PHAVEN	Pharmacology and Venipuncture	3	0	0	0	3	HUMANAPHY	RTMEDTERM
RT3RPROCH	Radiation Production And Characteristics	3	0	0	0	3	RT1INTROHC HUMANAPHY	RT2PHAVEN RTMEDTERM
PHYSEDUC2	Physical Education 2 Self Defense	2	0	0	0	2	PHYSEDUC1	
RCIREED02	Lessons of Professionalism In the Bible	2	0	0	0	2		
NSTPCWTS2	National Service Training Program 2 (CWTS)	3	0	0	0	3	NSTPCWTS1	
RCICALL02	Computer Aided Language Learning Program 2	0	1	0	0	1	RCICALL01	
Total		20	3	0	0	23		



SECOND YEAR

First Semester

		No. of hrs.		RLE		Total Units	Pre-requisites	Co-requisites
		Lec	Lab	SL	C			
GEMANDATE	Life and Works of Rizal	3	0	0	0	3		
STATISTIC	Basic Statistics	3	0	0	0	3	COPHYSICS	
GEDELEC01	Great Books	3	0	0	0	3		
GEDELEC06	Living in the IT Era	3	0	0	0	3		
GEDCORE05	The Contemporary World	3	0	0	0	3		
GEDCORE06	Science, Technology And Society	3	0	0	0	3		
RT4IMEQMA	Imaging Equipment And Maintenance	2	1	0	0	3	RT2PHAVEN RT3RPROCH	RT5FIAPIA
RT5FIAPIA	Film-Screen Image Acquisition, Processing And Image Analysis	2	1	0	0	3	HUMANAPHY RTMEDTERM	RT4IMEQMA
PHYSEDUC3	Physical Education3	2	0	0	0	2	PHYSEDUC2	
RCICALL03	Computer Aided Language Learning Program 3	0	1	0	0	1	RCICALL02	
Total		24	3	0	0	27		

Second Semester

		No. of hrs.		RLE		Total Units	Pre-requisites	Co-requisites
		Lec	Lab	SL	C			
GEDCELEC05	People and the Earth's Ecosystem	3	0	0	0	3		
GEDCORE07	Ethics	3	0	0	0	3		
GEDCORE08	Art Appreciation	3	0	0	0	3		
RT6PRIMAG	Principles of Imaging	2	1	0	0	3	HUMANAPHY RT4IMEQMA RT5FIAPIA RT3RPROCH	RT7CADRAD
RT7CADRAD	Computed and Digital Radiography	3	0	0	0	3	RT3RPROCH RT4IMEQMA RT5FIAPIA	RT6PRIMAG
RT8RADANA	Radiologic Anatomy And Physiology	3	1	0	0	4	HUMANAPHY RTMEDTERM	RT6PRIMAG RT7CADRAD
RT9PCRMAN	Patient Care and Management	2	1	0	0	3	HUMANAPHY RTMEDTERM RT10RADBIO	RT6PRIMAG RT8RADANA
RCICALL04	Computer Aided Language Learning Program 4	0	1	0	0	1	RCICALL03	
PHYSEDUC4	Physical Education4	2	0	0	0	2	PHYSEDUC3	
Total		21	4	0	0	25		



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Summer		No. of hrs.		RLE		Total	Pre-	Co-
		Lec	Lab	SL	C	Units	requisites	requisites
RT10RABIO	Radiobiology	3	0	0	0	3	ANAPHYSIO RT1INTROHC RTMEDTERM	
GEDCORE01	Understanding the Self	3	0	0	0	3		
Total		5	0	0	0	5		

THIRD YEAR First Semester

		No. of hrs.		RLE		Total	Pre-	Co-
		Lec	Lab	SL	C	Units	requisites	requisites
RT11PEJCS	Professional Ethics, Jurisprudence and Cultural Sensitivity	3	0	0	0	3	HUMANAPHY RTMEDTERM	RT9PCRMAN RT1SADLEN
RT12RPOS1	Radiographic, Positioning and Radiologic Procedures 1	3	1	0	0	4	HUMANAPHY RTMEDTERM RT2PHAVEN RT8RADANA RT5FIAPIA RT6PRIMAG	RT13RCONT RT16RDPRO
RT13RCONT	Radiologic Contrast Examinations	2	1	0	0	3	HUMANAPHY RTMEDTERM RT2PHAVEN RT8RADANA	RT12RPOS1
RT14ULTRA	Ultrasonography	3	0	0	0	3	HUMANAPHY RTMEDTERM RT3RPROCH RT8RADANA	RT12RPOS1
RT15ADLEN	Administration, Leadership and Entrepreneurship	3	0	0	0	3		RT11PEJCS
RT16RDPRO	Radiation Protection	2	0	0	0	2	RT3RPROCH RT4IMEQMA RT5FIAPIA RT7CADRAD RT10RABIO	RT12RPOS1 RT13RCONT
RT17IMASI	Imaging Science and Informatics	3	0	0	0	3	RT3RPROCH RT4IMEQMA RT5FIAPIA RT6PRIMAG RT7DACRAD	RT16RDPRO RT18RADIO
RT18RADIO	Interventional Radiology	3	0	0	0	3	HUMANAPHY RTMEDTERM RT2PHAVEN RT3RPROCH RT4IMEQMA RT6PRIMAG RT7CADRAD	RT12RPOS1 RT13RCONT RT16RDPRO



RT8RADANA

RTRSRCH01	Introduction to Research	3	0	0	0	3	STATISTIC
Total		25	2	0	0	27	

Second Semester

		No. of hrs.		RLE		Total	Pre-	Co-
		Lec	Lab	SL	C	Units	requisites	requisites
RT19RPOS2	Radiographic Positioning and Radiologic Procedures 2	3	0	0	0	3	RT12RPOS1 HUMANAPHY RTMEDTERM RT5FIAPIA RT6PRIMAG RT8RADANA	
RT20RPATH	Radiologic Pathology	3	0	0	0	3	RT12RPOS1 HUMANAPHY RTMEDTERM RT5FIAPIA RT6PRIMAG RT8RADANA RT13RCONT	RT19RPOS3
RT21MAMMO	Mammography	2	0	0	0	2	HUMANAPHY RTMEDTERM RT3RPROCH RT4IMEQMA RT8RADANA RT14ULTRA	
RT22CTOMO	Computerized Tomography (CT SCAN)	3	0	0	0	3	HUMANAPHY RTMEDTERM RT3RPROCH RT4IMEQMA RT6PRIMAG RT12RPOS1 RT7CADRAD RT19RPOS2	RT19RPOS2 RT23MAGRI
RT23MAGRI	Magnetic Resonance Imaging (MRI) Entrepreneurship	3	0	0	0	3	HUMANAPHY RTMEDTERM RT4IMEQMA RT6PRIMAG RT7CADRAD RT12RPOS1	RT19RPOS2 RT22CTOMO
RT24RTHER	Radiation Therapy	3	0	0	0	3	HUMANAPHY RT3RPROCH RT4IMEQMA RT6PRIMAG RT7CADRAD RT12RPOS1	RT19RPOS2 RT25NCMED



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RT25NCMED	Nuclear Medicine	3	0	0	0	3	HUMANAPHY RT10RABIO RT3RPROCH RT4IMEQMA RT6PRIMAG RT7DACRAD RT12RPOS1	RT19RPOS2 RT24RTHER
RT26QAAQC	Quality Assurance and Quality Control	2	1	0	0	3	RT10RABIO RT3RPROCH RT4IMEQMA RT5FIAPIA RT6PRIMAG RT7CADRAD RT17IMASI	RT19RPOS2
RTRSRCH02	Research Writing	3	0	0	0	3	STATISTIC RTRSRCH01	
Total		25	2	0	0	27		

Summer		No. of hrs.		RLE		Total	Pre-	Co-
		Lec	Lab	SL	C	Units	requisites	requisites
RTJINTERN	Clinical Education 1 (1 1/2 months Hospital Training 5 wks-288 hrs)	0	6	0	0	6	All Professional Subjects	
Total		0	6	0	0	6		

FOURTH YEAR First Semester

		Lec	No. of hrs.		RLE		Total	Pre-	Co-
			Lab	SL	C	Units	requisites	requisites	
RTJINTERN1	Clinical Education 2 (5 months Hospital Training 960 hours)	0	15	0	0	15	All Professional Subjects	RTCOENPRO	
RTCOENPRO	RT Comprehensive Enhancement Program	3	0	0	0	3	All Professional Subjects	RTJINTERN1	
Total		3	15	0	0	18			

Second Semester

		Lec	No. of hrs.		RLE		Total	Pre-	Co-
			Lab	SL	C	Units	requisites	requisites	
RTJINTERN2	Clinical Education 3 (4 1/2 months Hospital Training 864 hours)	0	15	0	0	15	All Professional Subjects & RTSNTERN 1	RTCOENPRO	
RTCOENPRO	RT Intensive Recall Program	3	0	0	0	3	All Professional Subjects & RTCOENPRO	RTJINTERN2	
Total		3	15	0	0	18			



SUMMARY OF REQUIRED COURSES Bachelor of Science In Radiologic Technology

	Number of	RLE/ Courses Required	Lec	Lab	Total Subtotal	Units
Core Courses						24
Understanding the Self	1		3	0	3	
Readings in Philippine History	1		3	0	3	
The Contemporary World	1		3	0	3	
Mathematics in the Modern World	1		3	0	3	
Purposive Communication	1		3	0	3	
Art Appreciation	1		3	0	3	
Science, Technology and Society	1		3	0	3	
Ethics	1		3	0	3	
Elective Courses						12
Living in the IT Era	1		3	0	3	
People and the Earth's Ecosystem	1		3	0	3	
Great Books	1		3	0	3	
Living in the IT Era MS Training	1		3	0	3	
The Life and Works of Rizal						3
The Life and Works of Rizal	1		3	0	5	
Other Courses						14
Physical Education	4		2	0	8	
National Service Training Program (NSTP 1 and 2)	2		3	0	6	
Major Courses						17
Human Anatomy & Physiology	1		3	2	5	
Medical Terminology	1		3	0	3	
Introduction to Research	1		3	0	3	
Research Writing	1		3	0	3	
Biostatistics	1		3	0	3	
Other Institutional Courses						19
Computer Aided Learning Program 1	1		1	0	1	
Computer Aided Learning Program 2	1		1	0	1	
Computer Aided Learning Program 3	1		1	0	1	
Computer Aided Learning Program 4	1		1	0	1	
Values and Leadership of Jesus	1		2	0	2	
Lessons of Professionalism in the Bible	1		2	0	2	
College Physics	1		3	2	5	
RT Comprehensive						



Enhancement Program	1	3	0	3
RT Intensive Recall Program	1	3	0	3

Professional Courses

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Introduction to Radiologic Technology and Health Care	1	3	0	3
Radiation Production	1	2	1	3
Imaging Equipment and Maintenance	1	2	1	3
Computed and Digital Radiography	1	3	0	3
Principles of Imaging	1	2	1	3
Film-Screen Image Acquisition, Processing and Image Analysis	1	2	1	3
Radiographic Anatomy & Physiology	1	3	1	4
Radiographic Positioning and Radiologic Procedures	2	3	1	8
Radiologic Contrast Examinations	1	2	1	3
Patient Care Management	1	2	1	3
Administration, Leadership & Entrepreneurship	1	3	0	3
Professional Ethics, Jurisprudence and Cultural Sensitivity	1	3	0	3
Radiobiology	1	2	0	2
Radiation Protection	1	2	0	2
Radiologic Pathology	1	3	0	3
Computerized Tomography	1	3	0	3
Magnetic Resonance Imaging	1	3	0	3
Interventional Radiology	1	3	0	3
Ultrasonography	1	3	0	3
Radiation Therapy	1	3	0	3
Nuclear Medicine	1	3	0	3
Quality Assurance and Quality Control	1	2	1	3
Pharmacology and Venipuncture	1	2	1	3
Mammography	1	2	0	2
Imaging Science and Informatics	1	3	0	3
Clinical Education 1	1	0	6	6
Clinical Education 2	1	0	15	15
Clinical Education 3	1	0	15	15

Total

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MAJOR COURSE DESCRIPTION
Bachelor of Science in Radiologic Technology

**HUMANAPHY
HUMAN ANATOMY
PHYSIOLOGY** **5 units
AND**

Deals with the physiologic concepts, principles and basic anatomical structure.

**RTMEDTERM
MEDICAL TERMINOLOGY** **3 units**

This course deals with the various medical nomenclatures and their usages as applied to specific systems, disease processes and injuries. Discussions include partial medical root word, terms referring to some general aspects of the practice of medicine and its allied profession, medical terms referring to certain general pathological processes, infective diseases, diseases of various systems of the body, obstetric terms and terms related to medical instruments and equipment.

RTRSRCH02 **3 units**
RESEARCH WRITING

This course is a continuation of the Introduction to Research and deals with the completion of the research undertaking with emphasis on the presentation, analysis, and interpretation of data and summary of findings and recommendations.

RTRSRCH01 **3 units**
INTRODUCTION TO RESEARCH

Offers a basic learning experience on the principles of statistical analysis, measures for central tendencies, dispersion, research design and methodology, research protocol writing, types of researches, and methods of sample gathering in line with Radiologic Technology.

STATISTIC **3 units**
BASIC STATISTICS

The course is designed to prepare the students for further mathematics courses in their respective disciplines, as well as to develop their skills in logical thinking, problem solving and creativity. Introduction to concepts in probability. Basic statistical inference procedures of estimation, confidence intervals and hypothesis testing directed towards applications in the field of Pharmacy. This course will provide a skill-set that is in demand in both the research, medical and business environments.



PROFESSIONAL COURSE DESCRIPTION

RT1NTRHOC 3 units **INTRODUCTION TO RADIOLOGIC TECHNOLOGY AND HEALTH CARE**

Prologue to Radiologic Technology education and practice which will provide an understanding on the scope, outputs, and practices of radiologic sciences in general and Radiologic Technology in particular. This course also provides an overview of the Radiologic Technology practitioner's role and professional responsibilities in the health care delivery system: principles, practices, and policies of health care organizations.

RT3RPROCH 3 units **RADIATION PRODUCTION AND CHARACTERISTICS**

Study of the physical principles of radiation, its nature, characteristics, properties, interaction with matter, and application in radiological sciences. This course establishes a basic knowledge of atomic structure and terminology.

RT4IMEQMA 3 units **IMAGING EQUIPMENT AND MAINTENANCE**

An introduction to the basics of electricity, electromagnetism, motors, generators, transformers and rectifiers. The course establishes a knowledge base in the radiographic, fluoroscopic, mobile equipment requirements, and other diagnostic and therapeutic modalities, as well as to detect the defects interfering with the proper function of the equipment and the fundamentals of preventive maintenance.

RT7CADRAD 3 units **COMPUTED AND DIGITAL RADIOGRAPHY**

Deals with the components, principles, and operation of computer and digital imaging systems in diagnostic radiography. This includes factors that impact image acquisition, display, archiving and retrieval, and the principles of digital system quality assurance and maintenance.

RT6PRIMAG 3 units **PRINCIPLES OF IMAGING**

Deals with radiographic imaging and the production of quality images/radiographs through proper selection, computation, generalization, and application of various technique factors and accessory devices.

RT5FIAPIA 3 units **FILM-SCREEN IMAGE ACQUISITION, PROCESSING AND IMAGE ANALYSIS**

An understanding of the principles involving action of x-rays on film emulsion and intensifying screens, processing chemicals, the various systems and accessories involved in the conversion of latent image into visible radiographic and learn the skills necessary to critique radiographic images with emphasis in recognizing processing faults with the aid of radiographs and laboratory exposure experiments. Discussions include processing room design and accessories and regulatory requirements.



RT8RADANA **4 units**
RADIOGRAPHIC ANATOMY AND PHYSIOLOGY

Study the structure and function of the human body with radiographic correlation,

RT12RPOS1 **8 units**
RADIOLOGIC POSITIONING AND RADIOLOGIC PROCEDURES 1

The course deals with the study of the general foundation of positioning techniques to obtain radiographic demonstration of anatomical structure of interest as well as specialized radiographic examination of the different body structures and organs without contrast media. This includes anatomic and radiographic positioning terms, source-image receptor distance and tube-film alignment, positioning principles, radiographic landmarks, exposure techniques, structures demonstrated, and evaluation criteria of examinations of the different organs and body structures. Clinical competency is accomplished through positioning demonstration and return demonstration.

RT13CONT **3 units**
RADIOLOGIC CONTRAST EXAMINATIONS

The course deals with the study of radiographic examinations with application of contrast media to enhance and/or visualize different organs and body structures of interest. This includes type of contrast media, its characteristics and properties, indications and contraindications, and mode of administration; patient preparation and types of examinations of the gastrointestinal tract, genitourinary system, central nervous system, vascular system and other contrast examinations.

RT9PCRMAN **3 units**
PATIENT CARE AND MANAGEMENT

This deals with the study of patient care and management as these relate to radiography.

RT15ADLEN **3 units**
ADMINISTRATION, LEADERSHIP AND ENTREPRENEURSHIP

Deals with the organization, function, supervision, budgetary outlay of a radiological facility, and development of leadership and entrepreneurial skills. Discussions include management and human resource administration, elements of hospital administration, administration of a radiological facility, supervision, leadership, and entrepreneurship.

RT11PEJCS **3 units**
PROFESSIONAL ETHICS, JURISPRUDENCE AND CULTURAL SENSITIVITY

Provides a foundation of the laws and regulations, professional ethics, relevant medical jurisprudence, and other legal and ethical concerns related to the practice of radiologic technology. This includes examination of a variety of ethical and legal issues found in clinical practice as well as diverse issues that affect the radiologic technologist as an individual and interactions with patients, co-workers and the community with respect for their beliefs and values.

RT10RABIO **2 units**
RADIOBIO

An overview of the effects of ionizing radiation on biological matters. This presents the radiation effects on molecules, cells, tissues, and the body as a whole, as well as the factors affecting biological response including acute and chronic effects of radiation.



RT16RDPRO 2 units
RADIATION PROTECTION

Study of the principles of radiation protection including the responsibilities of the Radiologic Technologist for patients, personnel, and the public. This includes radiation health and safety requirements of agencies, institutions, and health care organizations mandated to regulate and monitor the safe use of radiation.

RT20RPATH 3 units
RADIOLOGIC PATHOLOGY

The course deals with the study of various pathologic conditions and their effect on radiological procedures, techniques and overall radiographic quality

RT22CTOMO 3 units
COMPUTERIZED TOMOGRAPHY

The course details relative information relating to Computed Tomography procedures, including procedural indications, patient education and preparation, patient history and assessment, contrast media usage, scan parameters as well as filming and archiving of images.

RT23MAGRI 3 units
MAGNETIC RESONANCE IMAGING

The course deals with the study of principles involved in a diagnostic imaging modality that produces cross-sectional, trans-axial coronal, and sagittal images of the human body.

RT18RADIO 3 units
INTERVENTIONAL RADIOLOGY

This course studies the principle involved in Digital Subtraction Angiography and Interventional Radiography as well as the parameters of imaging and equipment employed in these subspecialties.

RT14ULTRA 3 units
ULTRASONOGRAPHY

The course deals with the study of the physical foundation of Ultrasound and its application to medical diagnosis.

RT12RTHER 3 units
RADIATION THERAPY

Study of the precise application of ionizing radiation in the treatment of neoplastic growth, a complete and effective treatment plan as well as patient care of oncology cases.

RT25NCMED 3 units
NUCLEAR MEDICINE

This course deals with the principle and instrumentation in Nuclear Medicine and their diagnostic and therapeutic applications.

RT26QAAQC 3 units
QUALITY ASSURANCE AND QUALITY CONTROL

This course deals with the study of organized effort in the management of a radiological facility to ensure consistent production of high standard quality images with minimum exposure to patient and personnel.

RT2PHAVEN 3 units
PHARMACOLOGY AND VENIPUNCTURE

This course provides students with the basic concepts of pharmacology and an opportunity to develop a fundamental knowledge of the skills needed to competently, proficiently, and safely perform intravenous contrast media administration, with emphasis on the appropriate delivery of patient care during these procedures.



**RT21MAMMO 2 units
MAMMOGRAPHY**

This course deals with the fundamentals of mammography, breast imaging equipment, and techniques for insuring image quality. Discussion includes breast anatomy and pathologies along with strategies for communicating with patients.

**RT17IMASI 3 units
IMAGING SCIENCE AND
INFORMATICS**

This course deals with the issues in the informatics used in medical imaging and radiology.

**RTJINTERN 6 units
CLINICAL EDUCATION 1**

The Radiologic Technology Internship Program consists of eleven (11) months

of service. The program requires the Radiologic technology interns to be assigned to various affiliation hospitals of the school. Satisfactory completion of the Internship Program is a requirement for graduation. The Radiologic technology Interns shall undertake to perform or assist in at least eight hundred (800) radiographic examinations.

**RTSNTERN 1 12 units
CLINICAL EDUCATION 2**

This is a continuation of Clinical Education 1

**RTSNTERN 2 15 units
CLINICAL EDUCATION 3**

This is a continuation of Clinical Education 2

OTHER INSTITUTIONAL COURSE DESCRIPTION

**RTCOENPRO 3 units
RT COMPREHENSIVE
ENHANCEMENT PROGRAM**

Provides a review of the theories, concepts, principles, procedures and updates basic to the practice of radiologic technology profession.

**RTINREPRO 3 units
RT INTENSIVE RECALL PROGRAM**

Provides a review of the theories, concepts, principles, procedures and updates basic to the practice of radiologic technology profession.

INSTITUTIONAL COURSE DESCRIPTION

**GEDCORE01 3 units
UNDERSTANDING THE SELF**

This course deals with the different aspects and concepts of self in terms of physical, emotional, cognitive, social, moral and responsible self. It covers topics about the nature of personal identity, enhancing one's self-image and assessing self-improvement. It aims to assist students in developing self-awareness, understanding and

accepting oneself and others. As the course progresses, it will guide them to realize their vision in life and increase commitment to find meaning in their life.

**GEDCORE02 3 units
READINGS IN PHILIPPINE HISTORY**

This course critically analyses Philippine History from multiple perspectives through the lens and selected primary sources. Priority will be given to primary



sources that describe the important turning points in Philippine History from prehistoric times up to the contemporary period and articulate various perspectives. The approach, though historical, will deal with interdisciplinary subjects so as to broaden and deepen the student's understanding of Philippine political, economic, social and cultural history and equip the learner with the competencies necessary to analyze and evaluate different types of information: print, visual and audio visual and quantitative. The end goal is to develop the historical and critical consciousness of the students so that they will become versatile, broad-minded, morally upright and responsible citizens.

GEDCORE03 **3 units** **PURPOSIVE COMMUNICATION**

Purposive communication is a three-unit course that develops students' communicative competence and enhances their cultural and intercultural awareness through multimodal tasks that provide them opportunities for communicating effectively and appropriately to a multicultural audience in a local or global context. It equips students with tools for critical evaluation of a variety of texts and focuses on the power of language and the impact of images to emphasize the importance of conveying messages responsibly. The knowledge, skills, and insights that students gain from this course may be used in their other academic endeavors, their chosen disciplines, and their future careers as they compose and produce relevant oral, written, audio-visual and /or web-based output for various purposes.

GEDCORE04 **3 units** **MATHEMATICS IN THE MODERN WORLD**

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 environment) and 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 and a rich language in itself (and the science) governed by logic 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 the test the students' understanding and capacity. (CMO No. 20, series of 2013)

GEDCORE05 **3 units** **THE CONTEMPORARY WORLD**

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 people and places around the globe. To this end, the course provides an overview of the 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.

GEDCORE06 **3 units** **STS- SCIENCE, TECHNOLOGY AND SOCIETY**

The course deals with the interaction between science and technology and social, cultural, political and economic contexts that shape and are shaped by them (CMO No. 20, series of 2013)

The 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.

GEDCORE07 **3 units** **ETHICS**

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 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).

GEDCORE08 **3 units** **ART APPRECIATION**

Art Appreciation is a three-unit course that develops students' ability to appreciate, analyze, 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 their rootedness in Filipino culture.

BICHMSTRY **5 units** **BIOCHEMISTRY**

Chemistry for the Life Sciences is a course for students typically majoring in nursing. The course gives a general knowledge of chemistry (mostly inorganic) with an emphasis on health-related topics and problem-solving strategies. Descriptive and quantitative principles are discussed. This course also introduces the fundamental principles of biochemistry and biochemical reaction cycles. Its deals with the study of the properties, structures, functions, absorption, digestion and metabolism of proteins, enzymes, carbohydrates and lipids.

MICROPARA **4 units** **MICROBIOLOGY** **AND** **PARASITOLOGY**

This is an introductory course designed to assist students in the study of the important microorganisms and parasites. The first part covers the fundamentals of Microbiology (forms, morphology, arrangement and physiology of bacteria, fungi, viruses and protozoa) mechanics of causing diseases, their resistance to treatment and the body's immune defense against them. The second part briefly covers the study of human parasites (mode of transmission, life cycle and disease process) which are of medical importance.

Emphasis of this course is given on pathology, treatment and prevention of various diseases.

CO PHYSICS **3 units** **COLLEGE PHYSICS**

It is a lecture and laboratory course. The course deals with the basic concepts of Physics, such as matter and energy and their interaction. Conceptual approach is used. Covers the ideas of motion, forces, momentum and energy from within the framework of Newton's Laws. The principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces are studied with emphasis on problem solving. Laboratory experiments supporting the topics are included. The students are provided with laboratory activities designed to strengthen classroom discussions and lectures.

EARTH SCIE **3 units** **EARTH SCIENCE**

Earth Science and the Environment is a 3-unit course intended for college students who are taking a portion of their college general requirements. The course will cover basic topics in geology (major minerals and rock types, rock-forming processes, time scales; temperatures, pressures, compositions, structure of the Earth, and measurement techniques; geologic structures and relationships observable in the field; sediment movement and landform development by moving water, wind, and ice; crustal processes and planetary evolution in terms of global plate tectonics) and astronomy (stars, solar



system, interstellar medium, the galaxy, and the universe). The course will also cover various environmental issues such as global warming, climate change, geological hazards, pollution, and renewable energies

GEMANDATE **3 units** **LIFE AND WORKS OF RIZAL**

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 writings, particularly the novels *Noli Me Tangere* and *El Filibusterismo*, some of his essays, and various correspondences.

RCIREED01 **2 units** **VALUES AND LEADERSHIP OF JESUS CHRIST**

Values and Leadership of Jesus Christ is designed to give student's adequate knowledge about Catholic Faith and Doctrine in the light of the Sacred Scripture, Sacred Tradition and Church Documents. It exposes students to the many misconception and corrections about Catholic Faith which led them to carry out the sound and authentic Catholic Faith in their day to day lives. 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).

The Course also tackles the Values and Leadership of Jesus Christ as portrayed from the Sacred Scriptures and Church social teachings. It identifies the different kinds of Christian Leadership a student of Riverside College must become.

RCIREED02 **2 units** **LESSON OF PROFESSIONALISM FROM THE BIBLE**

The Lesson of Professionalism from the Bible (Sacred Scriptures) is designed to give students the adequate knowledge about the fundamental biblical descriptions according to the Catholic Church teachings. It exposes students the right way in understanding the Bible as a means for them to share their experiences and lessons taken from the biblical chapters and verses discussed. The Course tackles the value of professionalism which can be associated to the different human characters discussed in the subject. This is organized according to the connectivity of the Sacred Scriptures to the Trinitarian perspectives of God the Father, God the Son and God the Holy Spirit

RCIPHYSICS **3 units** **COLLEGE PHYSICS**

The course deals with the basic concepts of Physics, such as matter and energy and their interaction. Conceptual approach is used. Covers the ideas of torque, motion, forces, momentum and energy from within the framework of Newton's Laws. The principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces are studied with emphasis on problem solving.

GEDELEC01 **3 units** **GREATBOOKS**

The course aims to introduce students to the international dimension of the



Western literary tradition. Throughout this history, readers & writers were familiar with works in a variety of languages, & the great books all arise within a multilingual context. The course will draw on literatures written in English. The course aims to build up a sense of this broad context, & to give students the opportunity to read some "great books" with the understanding that this brings.

GEDELEC04 **3 units** **PHILIPPINE POPULAR CULTURE**

This course locates popular culture as a historico-spatial condition and phenomenon of Philippine modernity. It provides the students with critical perspective in understanding and way of knowing popular culture in the Philippines. This course also provides multi-disciplinary attention on how art, music, and literature arising from opportunities and demands of mass audiences, markets and mass media and their social, economic, and political contexts.

GEDELEC05 **3 units** **PEOPLE AND THE EARTH'S ECOSYSTEM**

This course explores the ways in which human activity impacts the natural environment and how modification of environment can eventually have significant consequences to human activity. Topics include environmental challenges, such as air and water pollution, population growth and distribution, global atmospheric changes, ecosystems and evolution, agriculture and food resources and renewable and non-renewable energy resources.

GEDELEC06 **3 units** **LIVING IN THE IT ERA**

This course described the science, culture and ethics of Information Technology, in various uses and applications as well as its influence on culture and society. It is also designed to introduce the students to more advanced applications that can be used for research, communication, and electronic presentations.

GEDELEC07 **3 units** **GENDER AND SOCIETY**

Gender as a social construction, its role in the society and impact on different facets of societal life. This course critically examines the ways gender informs the social world in which we live. It exposes the "common sense" world of gender around us, considers how we develop our gendered identities, explores the workings of the institutions that shape our gendered lives and leads to an understanding of the between gender and the social structure

GEDELEC08 **3 units** **THE ENTREPRENEURIAL MIND**

This course introduces the concept of an entrepreneurial mindset and encourages the development of mindset and its associated enterprising skills, such as solving problems creatively, communicate persuasively, work effectively in teams and understand individual and organizational impact.

RCICALL1 **1 unit** **NEW DYNAMIC ENGLISH**

RCI Computer Aided Language Learning (RCI CALL) is designed to equip students the needed skills in English



communication such as reading, listening, speaking and writing with the use of courseware and other references. RCI CALL embraces a wide range of information and communications technology applications and approaches to teaching and learning the universal language. The 21st century learners' interest in technology will be aided by the said program into an interactive and fun learning experience. Thus, the RCI CALL programs can be used by teachers as technology partners in running their classrooms and solve problems like capturing students' attention and maintaining their interests. The nature of RCI CALL ensures that learning is a two-way street — dynamic and rigid.

RCICALL01 (NEW DYNAMIC ENGLISH) focuses on writing skills and uses well-designed scope and sequence. It promotes long term learning and keeps learners engaged with language. Since it focuses on the writing skill, it introduces students to the norms of academic writing

RCICALL2 **1 unit** **ENGLISH FOR SUCCESS**

RCI Computer Aided Language Learning (RCI CALL) is designed to equip students the needed skills in English communication such as reading, listening, speaking and writing with the use of courseware and other references. RCI CALL embraces a wide range of information and communications technology applications and approaches to teaching and learning the universal language. The 21st century learners' interest in technology will be aided by the said program into an interactive and fun learning experience. Thus, the RCI CALL

programs can be used by teachers as technology partners in running their classrooms and solve problems like capturing students' attention and maintaining their interests. The nature of RCI CALL ensures that learning is a two-way street — dynamic and rigid.

RCI CALL 2 (ENGLISH FOR SUCCESS) Improves students reading comprehension and develops their English vocabulary. Also, It helps them master the foundational reading skills and most importantly, it enhances their English language skills.

RCICALL3 **1 unit** **CLEAR SPEECH WORKS**

RCI Computer Aided Language Learning (RCI CALL) is designed to equip students the needed skills in English communication such as reading, listening, speaking and writing with the use of courseware and other references. RCI CALL embraces a wide range of information and communications technology applications and approaches to teaching and learning the universal language. The 21st century learners' interest in technology will be aided by the said program into an interactive and fun learning experience. Thus, the RCI CALL programs can be used by teachers as technology partners in running their classrooms and solve problems like capturing students' attention and maintaining their interests. The nature of RCI CALL ensures that learning is a two-way street — dynamic and rigid.

RCICALL03 (CLEAR SPEECH WORKS) focuses on Speaking skills, emphasizes the use of English language in expressing oneself orally and Improves



students' oral communication and comprehension skills.

RCICALL4 **1 unit**
ADVANCE LISTENING

RCI Computer Aided Language Learning (RCI CALL) is designed to equip students the needed skills in English communication such as reading, listening, speaking and writing with the use of courseware and other references. RCI CALL embraces a wide range of information and communications technology applications and approaches to teaching and learning the universal language. The 21st century learners' interest in technology will be aided by the

said program into an interactive and fun learning experience. Thus, the RCI CALL programs can be used by teachers as technology partners in running their classrooms and solve problems like capturing students' attention and maintaining their interests. The nature of RCI CALL ensures that learning is a two-way street- dynamic and rigid.

RCICALL04 (Advanced Listening) is a useful and interesting tool because it develops the listening strategies, vocabulary and critical thinking skills of students. It also enhances their high-level listening and note taking skills. It emphasizes on English sounds, stress, and intonation patten