

CHS

COLLEGE OF HEALTH SCIENCES

PROGRAM CATALOGUE

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CHS



REVISION NO.
REVISION DATE



MAPÚA
MALAYAN COLLEGES
MINDANAO

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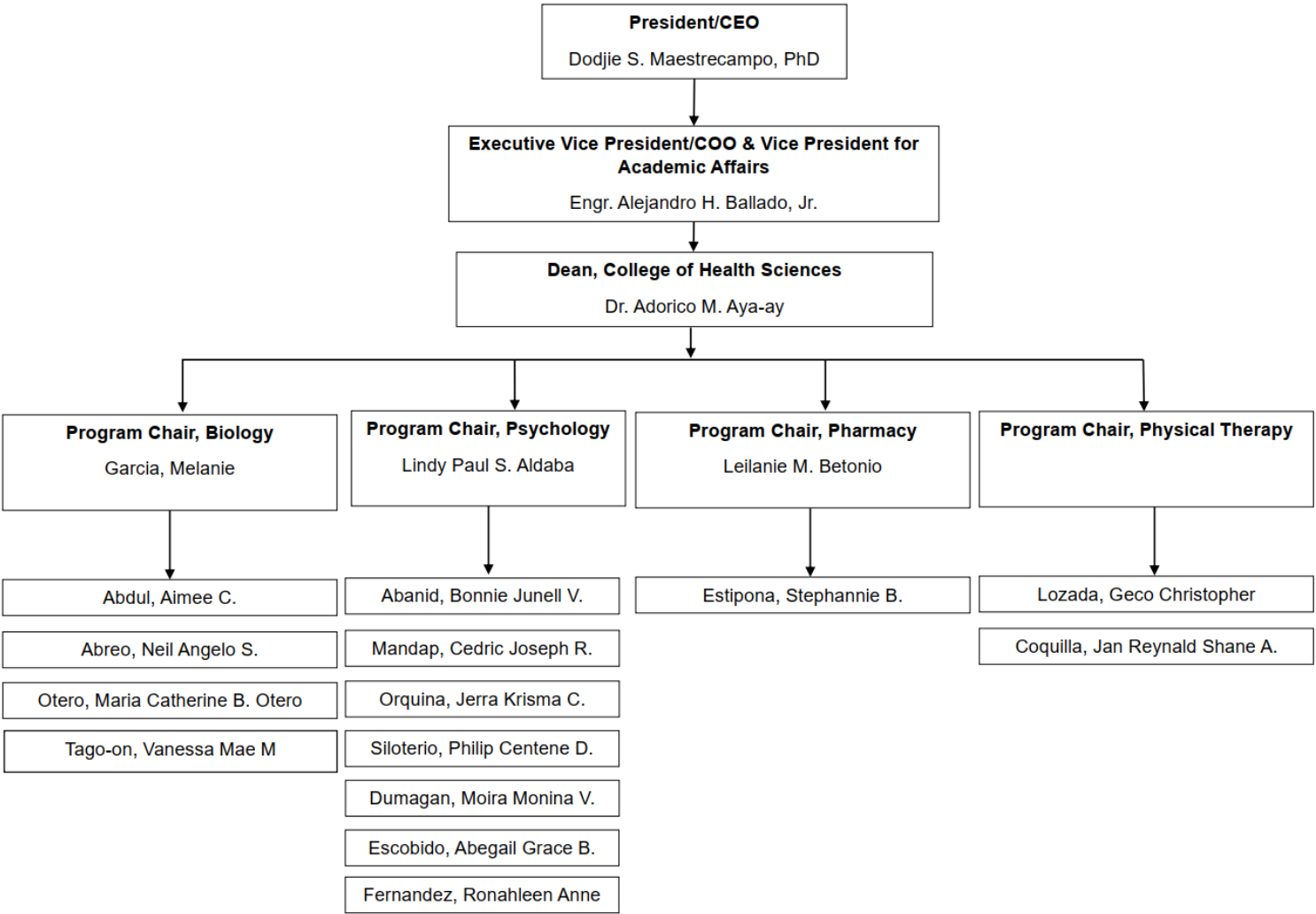
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ORGANIZATIONAL STRUCTURE



ABOUT MAPÚA MALAYAN COLLEGES MINDANAO

THE MISSION OF MAPÚA MALAYAN COLLEGES MINDANAO

1. The institute shall provide a learning environment in order for its students to acquire the attributes that will make them globally competitive & locally in-demand.
2. The institute shall engage in cutting edge and economically viable research, development and innovation that is relevant locally and beyond.
3. The institute shall provide state-of-the-art solutions to problems of industries and communities locally and beyond.

THE VISION OF MAPÚA MALAYAN COLLEGES MINDANAO

MMCM in being true to its nature has to compete with other schools even as it collaborates with them in the advancement of common interests. Its stance shall be differentiation in the level of its service. Logically, it should go for the attainment of the highest quality standards.

In today's world, it makes sense to reach for global standards. The market for graduates is global. The market of students is global. There is no reason why the market for research and consultancy cannot be global.

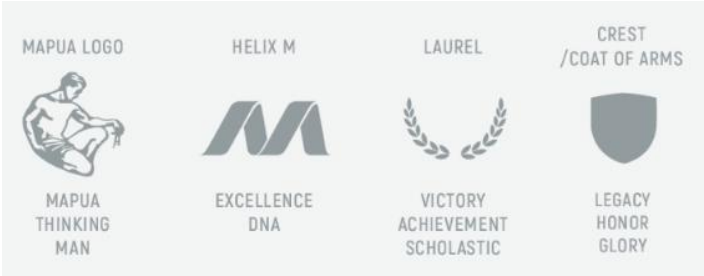
Thus, the vision statement:

Mapúa Malayan Colleges Mindanao shall be a school of global standards and of great significance locally and beyond.

OUR LOGO

Mapúa Malayan Colleges Mindanao's logomark was redesigned to represent the level of excellence that MMCM is striving to make itself known for. The goal was to make it scholastic, iconic, and modern.

- The coat of arms or crest is a symbol of legacy, honour, and glory.
- The Mapúa Thinking Man represents the iconic logo of Mapúa University.
- The single helix "M" is a symbol of excellence embedded in our DNA.
- The red laurel is a symbol of victory, achievement, and scholasticism.



HISTORY OF MAPÚA MALAYAN COLLEGES MINDANAO

When the ownership of the Mapúa Institute of Technology was transferred in the year 1999 to the Yuchengco Group of Companies (YGC) under the stewardship of the honourable Ambassador Alfonso T. Yuchengco,

great amount of face lifting was undertaken to make the face of Mapúa at par with international standards and great amount of effort was cultivated to further strengthen the academic program of the institution.

In fulfilment of the long-term development plan of Mapúa, land was acquired for its expansion and presence in Davao City, which stands as one of Mindanao's industrial and commercial hubs.

Formerly referred to as Malayan Colleges Mindanao, a Mapúa School (MCM), the groundwork of its campus started in July 2016, formally topped off in 2017, and was ready to start operations the following year in 2018.

In July 2018, then-President of the Philippines Rodrigo Roa Duterte attended the inauguration of MCM to establish its commitment to nurture students and reach their full potential. In the same month, MCM open its gates to its first batch of students (informally referred to as the Alpha Batch), which consisted of one thousand two-hundred eighty (1,280) Senior High School (SHS) and College students.

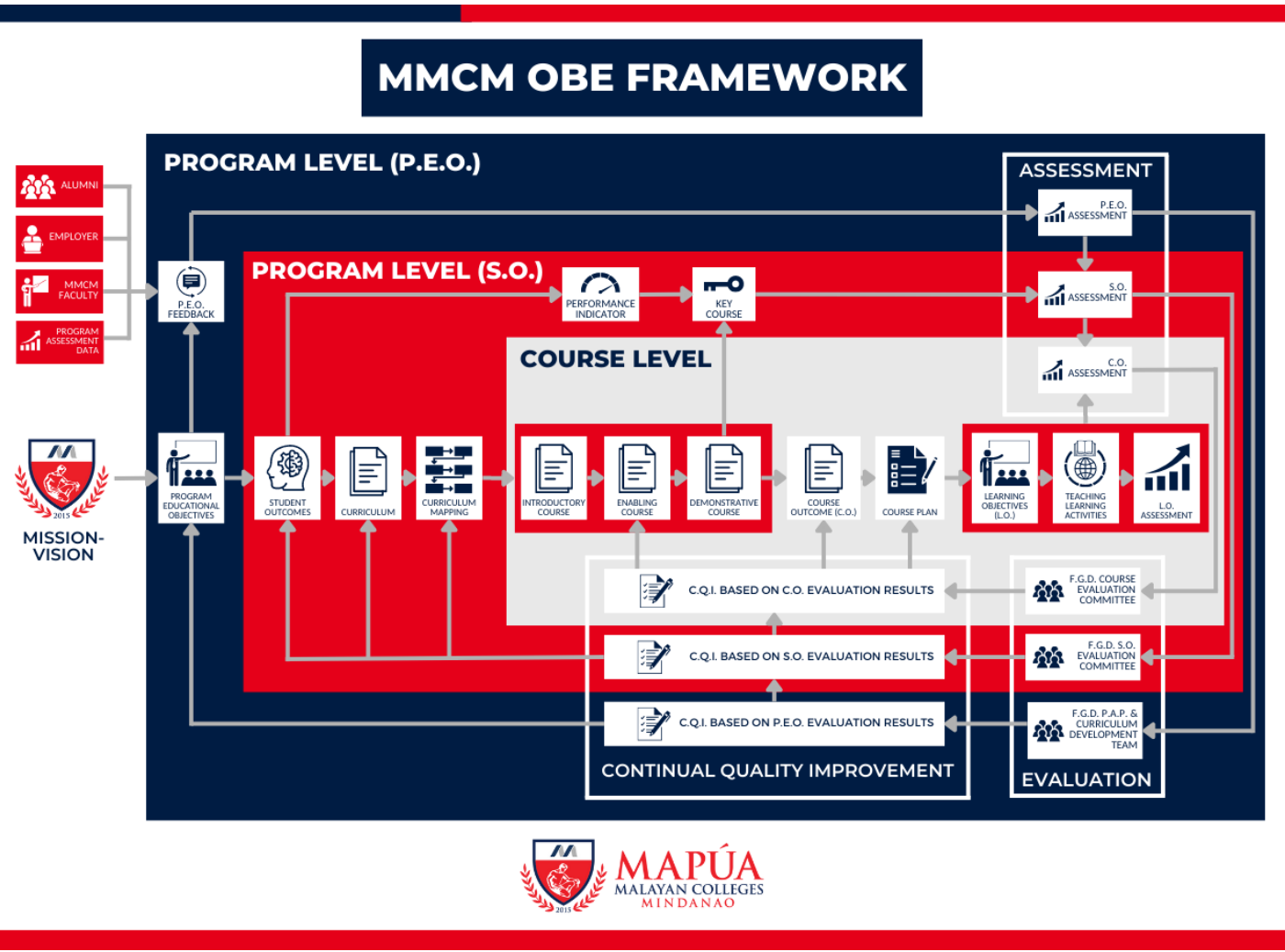
In August 2020, MCM held its first graduation ceremony for the Alpha Batch of SHS students. However, due to the circumstances surrounding that period, the graduation was fully online.

In May 2021, MCM began offering BS Biology and BS Psychology as new programs under the College of Arts and Sciences (CAS). At the same time, MCM launched its Junior High School (JHS) program, offering young students from Grades 7 to 10 with quality Mapúa education.

In April 2022, a major rebranding of MCM was undertaken to further establish the institution's brand of academic and technological education, and to emphasize its Mapúa name. From then onwards, MCM is now referred to as Mapúa Malayan Colleges Mindanao (MMCM).

Today, MMCM offers a total of twenty-one (21) college programs catering to the fields of engineering, architecture, business, information technology, communications, multimedia arts, health sciences, and tourism management, six (6) strands under the Academic, Arts & Design, and Technical-Vocational-Livelihood tracks of MMCM Senior High School, and the Junior High School Curriculum of MMCM Junior High School.

MMCM'S OBE FRAMEWORK



Mapúa Malayan Colleges Mindanao's (MMCM) Outcomes-Based Education (OBE) framework was developed in relation to the MMCM Value Chain to further give details to the processes relevant to the attainment of the outcomes by the individual programs of MMCM.

The framework exhibits different activities/processes/academic delivery services that were identified to be of primary importance in the attainment of the course outcomes (COs), student outcomes (SOs), and program educational objectives (PEOs) for each of MMCM's program offerings. Thus, the said framework can be viewed as a system of continuous quality improvement (CQI) and evaluation (under different committees) of the different levels of outcomes to be achieved in the different programs of the institution. Consequently, the inherent system of CQI and evaluation of MMCM's OBE framework further reflects a tacit recognition of the institution's relentless pursuit of the improvement and effectiveness of its academic delivery.

ABOUT – COLLEGE OF HEALTH SCIENCES

The College of Health Sciences (CHS) offers the following programs:

- **Bachelor of Science in Biology Major in Medical Biology**
- **Bachelor of Science in Psychology**
- **Bachelor of Science in Pharmacy**
- **Bachelor of Science in Physical Therapy**

PROGRAM EDUCATIONAL OBJECTIVES AND OUTCOMES

CONTINUOUS QUALITY IMPROVEMENT (CQI) ON THE DELIVERY OF INSTRUCTION

Mapúa Malayan Colleges Mindanao envisions service excellence as meeting and further exceeding, local and international standards on the delivery of quality education. We have continuously established assurance parameters to guard the process of delivering quality instructions to students, our prime stakeholder. In order to meet the standards of the global community, MMCM ensures that the professional programs are rightfully administered and governed by objectives that holistically mould each student to his intended specialization.

Hence, we align our programs to international standards for global competitiveness; and in this regard, we accordingly align our terminologies as well. The following are the internationally patterned terms that MMCM has adopted and shall be commonly used in our shared understanding of the programs.

PROGRAM EDUCATIONAL OBJECTIVES

1. To provide students with a strong foundation of knowledge and skills in the field of health sciences (Biology, Pharmacy, Physical Therapy, and Psychology).
2. To develop critical thinking and problem-solving abilities in students, enabling them to apply their knowledge effectively in real-world healthcare settings.
3. To foster ethical and professional behavior in students, emphasizing the importance of integrity, empathy, and cultural sensitivity in healthcare practice.
4. To cultivate effective communication skills in students, enabling them to communicate with patients, colleagues, and other healthcare professionals.
5. To promote evidence-based practice in students, ensuring they can critically evaluate and apply current research and best practices in healthcare.
6. To prepare students for leadership roles in the healthcare industry, equipping them with the necessary skills to manage teams, make informed decisions, and drive positive change.
7. To provide students with opportunities for hands-on experience and practical training, allowing them to apply their knowledge in clinical or community settings.
8. To encourage lifelong learning and professional development in students, enabling them to stay updated with advancements in the field.

STUDENT OUTCOMES

1. Demonstrate skills in utilization of the health-care processes and critical thinking in the care of patients.
2. Perform with technical competence to patients.
3. Demonstrates professional, ethical and legal behavior in the health-care practice.
4. Recognize basic and significant factors affecting health, such as age, sexuality, ethnicity, spirituality, cultural differences and socioeconomic status.
5. Communicate effectively in a respectful manner with patient, patient's family, and health care professionals.
6. Demonstrate a comprehensive understanding of the principles and theories in their specific health science discipline (Biology, Pharmacy, Physical Therapy and Psychology).
7. Apply critical thinking skills to analyze and solve complex problems in the field of health sciences.
8. Demonstrate proficiency in the use of technology and relevant tools in the health sciences field.
9. Display ethical and professional behavior in all aspects of their work, including respecting patient confidentiality and maintaining appropriate boundaries.
10. Collaborate effectively with interdisciplinary teams to provide comprehensive and patient-centered care.
11. Apply evidence-based practice principles in the decision-making process and thus improve patient outcomes.
12. Demonstrate cultural competency and sensitivity in providing care to diverse populations.
13. Engage in lifelong learning and professional development to stay current with advancements in the field of health sciences.
14. Exhibit leadership skills and contribute to the advancement of the health sciences profession through research, advocacy, and community engagement.

COURSE OBJECTIVES

Course Objectives are statements that describe the knowledge and skills that the graduates are expected to achieve after completing a specific course. These objectives serve as guidelines in designing activities for the course in order to achieve the desired learning. The attained learning is then needed for the integration of previous and future courses that the student is about to undertake within a specific program.

LEARNING OUTCOMES

A learning outcome is the specification of what a student should learn as the result of a period of specified and supported study. Learning outcomes are concerned with the achievements of the learner, how he understands the topics included in the course, and how he will be able to apply it practically. The output of each activity is used to assess the amount of learning a student has achieved.

PROGRAM DESCRIPTIONS

BACHELOR OF SCIENCE IN BIOLOGY Major in MEDICAL BIOLOGY

BS-BIOMED

Program Description

The Bachelor of Science in Biology major in Medical Biology is a four-year program that offers students a wide range of general education and scientific disciplines pertaining to life sciences in terms of fundamental concepts, principles, and theories of the natural, biological, and physical sciences. The students are given opportunities to study and explore the foundations of Biological Sciences such as Botany, Zoology, and Ecology, as well as Cell and Molecular biology, and Microbiology through engaging in field sampling, field trips, laboratory activities etc.

In addition, this program provides a strong foundation to focus for advancement, discovery and specialization in medical field for research such as Medical Microbiology, Medical Parasitology, Epidemiology, Immunology, Bioinformatics, Applied Data Analytics, Histology and Histopathology, Genomics, Biotechnology, genetic engineering, Cell Biology, Computational Biology and Molecular Biology that will prepare students in their quest to become medical doctors in collaboration with Arizona State University through Cintana Education.

PROGRAM EDUCATIONAL OBJECTIVES

1. have the in-depth understanding of the basic principles governing the science of life, technical skills, and professional qualifications to become competent biologists who can support biological research work, relevant industry, academe, or government;
2. be collaborators and innovators in the field using knowledge and assessing current views and theories in biological sciences, leading or participating in efforts to address social, technical, ethical, and business challenges; and
3. be engaged in life-long learning and professional development through local and global scientific research collaborations.

PROGRAM OUTCOMES

At the end of the program, graduates of the Biology Program are expected to:

- Articulate the latest developments in their specific field of practice.
- Demonstrate broad and coherent knowledge and understanding in the core areas of the statistical theory and statistical modelling.
- Carry out basic mathematical and statistical computations using appropriate technologies in data analysis, pattern recognition, generalization, abstraction, critical analysis, and problem solving.
- Apply analytical, critical, and problem-solving skills using scientific method.
- Interpret scientific data and reflect on relevant scientific and ethical issues.
- Assess views and theories in biological sciences.
- Adhere to ethical standards, practices, responsibilities, and accountabilities of the profession.
- Collaborate effectively in multidisciplinary and multicultural teams.

- Effectively communicate information, ideas, solutions both orally and in writing.
- Preserve and promote “Filipino historical and cultural heritage”.
- Recognize of the need for, and an ability to engage in lifelong learning.
- Design and perform techniques and procedures following safe and responsible laboratory or field practices.
- Connect science and math to other disciplines.
-

BACHELOR OF SCIENCE IN PSYCHOLOGY

BS-PSYCH

Program Description

The Bachelor of Science in Psychology degree launches its doors to a wide range of opportunities for college students interested in the systematic study of human behaviour and mental processes. The academic path leads towards potential careers in clinical psychology, educational psychology, human resource management, research, guidance and counselling, social work, legal profession, law enforcement, and medical school.

The professional undergraduate program of Bachelor of Science in Psychology is designed to provide students with solid and broad foundation of the concepts, theories, and principles in Psychology. Aside from the basic and specialized courses in Psychology, the curriculum also includes general education courses in values education, mathematics, humanities, philosophy, social sciences, business, and entrepreneurship to provide a multi-dimensional and holistic learning experience for 21st-century learners. The program will enable the students to develop their creativity and critical thinking skills necessary to respond to the needs of the social world and help promote optimal functioning and general well-being. The program integrates both theoretical and practical approaches to learning. It further employs systematic methods of inquiry with special emphasis on the application of psychological science to various relevant settings, which will develop student competencies both in practice and research.

PROGRAM EDUCATIONAL OBJECTIVES

The Bachelor of Science in Psychology program provides a comprehensive curriculum which aims to:

1. Directs students towards a logical comprehension of describing, explaining, and predicting human behavior.
2. Gives privileges for experiences in the specialized fields of psychological assessment, research work, and community immersion.
3. Equip students with fundamental knowledge and skills bounded by the significant areas of Psychology, which may prepare them to be globally competent in the emerging field of professional Psychology.
4. Promote a rich learning environment for students that will prepare them for promising careers in the field of professional psychology.

PROGRAM OUTCOMES

Graduates of the BS Psych Program are expected to demonstrate:

- Ability to discuss and analyze the major theories and concepts in psychology.
- Ability to apply the methods of psychological inquiry in building knowledge on local culture and context.
- Ability to apply psychological theories and methods in personal and professional setting;
- Understanding of professional and ethical behaviors in research and practice in psychology;

- Ability to establish harmonious interpersonal relationship with colleagues, clients, and other in diverse cultural setting;
- Ability to conduct psychological assessments and evaluation;
- Capability for self-reflection and independent learning in graduate education or in a professional context;
- Knowledge of contemporary issues of the need to keep abreast of the developments in the specific field of practice;
- Ability to effectively communicate orally and in writing using both English and Filipino;
- Ability to work effectively and independently in multi-disciplinary and multi-cultural teams;
- Understanding of a recognition of professional, social, and ethical responsibility; and
- Ability to engage in a service orientation program that is relevant to the field of psychology.

BACHELOR OF SCIENCE IN PHARMACY

BS-PHARM

Program Description

The Bachelor of Science in Pharmacy is a four – year degree program that is designed to prepare students to be globally competent pharmacists meeting the demands of the health care system. The program allows students to learn community pharmacy, hospital pharmacy, industrial pharmacy, and manufacturing through extensive lectures, laboratory works, research and local and international pharmaceutical exposures.

Mapúa MCM provides opportunities to pharmacy students to learn international pharmaceutical practices through its global internship and exchange program in pharmacy schools abroad especially those affiliated with ASU-Cintana Education.

Graduates of the BS Pharmacy program may pursue a career in any of the following areas of pharmacy practice: pharmaceutical manufacturing, production planning and inventory control, quality assurance, research and development, regulatory affairs, academe, hospital pharmacy, clinical pharmacy, community pharmacy, cosmetics industry, veterinary industry, clinical research, government service, and sales or marketing.

PROGRAM EDUCATIONAL OBJECTIVES

Three years after graduation, graduates of Pharmacy Program shall:

1. Managed drug facilities based on ethical business principles;
2. Conduct research on topics and concerns relating to pharmaceuticals;
3. Participate in on-going professional development and life-long learning;
4. Participate in a range of community-based pharmacy-related activities as well as environmental issues and concerns.

PROGRAM OUTCOMES

At the end of the program, the graduate should be able to:

1. Practice pharmacy in a professional and ethical manner;

2. Provide pharmaceutical care;
3. Conduct relevant research and disseminate findings;
4. Apply managerial and entrepreneurial skills;
5. Communicate and facilitate effectively.

BACHELOR OF SCIENCE IN PHYSICAL THERAPY

BS-PT

Program Description

The Bachelor of Science in Physical Therapy is a four-year degree program consisting of general education and professional courses. It produces professionals who promote optimal health and function by providing services that develop, maintain, and restore maximum movement and functional ability, for people at any stage of life, when then movement and function are threatened by ageing, injury, diseases, disorders, conditions, or environmental factors. The program crowns in a one-year wide-ranging internship program that allows students to work within the health domains of promotion, prevention, treatment/intervention, habilitation, and rehabilitation, supervised by licensed professionals.

PROGRAM EDUCATIONAL OBJECTIVES

Three years after graduation, graduates of the Physical Therapy program shall:

1. To provide opportunity, instruction and training programs in which students acquire basic knowledge and skills in practice of Physical Therapy.
2. Integrate evidence-informed knowledge of physical sciences, social sciences, health sciences and natural sciences to the practice of Physical Therapy.
3. Demonstrate consistent competence in conducting a comprehensive examination, evaluation, and assessment of patients/clients across the lifespan within a broad continuum of care.
4. To inculcate good interpersonal relationships and attitudes fostering a more conducive professional atmosphere.
5. To make continuing medical education a habit for self-improvement in the delivery of upgraded health care.

PROGRAM OUTCOMES

The following program outcomes are specific to BS Physical Therapy and integrate the expected outcomes common to all types of HEIs and common to all health professions:

1. Apply knowledge of physical sciences, social sciences, health sciences and natural sciences to the practice of Physical Therapy.
2. Demonstrate consistent competence in conducting a comprehensive examination, evaluation and assessment of patients/clients across the lifespan within a broad continuum of care.
3. Demonstrate consistent competence in planning and implementing appropriate Physical Therapy interventions for patients/clients across the lifespan within a broad continuum of care.
4. Apply teaching-learning principles in different learning environments.
5. Practice beginning management and leadership skills in various practice settings.
6. Demonstrate research-related skills in the application of best practice evidence in the performance of various roles in different practice settings.
7. Promote health and improved quality of life through the practice of the profession.
8. Actively engage in lifelong learning activities.
9. Work effectively in an inter-professional collaborative setting.
10. Demonstrate proficiency in oral and written communication skills as well as reading and listening.

11. Demonstrate social and professional responsibility and ethical behaviors in multicultural settings and scenarios.
12. Maximize the use of innovative technology in the practice of the profession.

PROGRAM CURRICULA

BACHELOR OF SCIENCE IN BIOLOGY Major in MEDICAL BIOLOGY

Curriculum based on CMO no. 49; Series of 2017 applicable to freshmen beginning school year 2023-2024

FIRST YEAR

1 st Term								
Year	Term	Code	Title	Lec. Hrs.	Lab Hrs.	Credit Units	Prerequisites	Co-requisites
1	1	BIO110	GENERAL BOTANY	3.45	-	3	NONE	NONE
1	1	BIO110L	GENERAL BOTANY LABORATORY	0.0	7.50	2	NONE	NONE
1	1	HUM034	ART APPRECIATION	3.45	-	3	NONE	NONE
1	1	ENG023	RECEPTIVE COMMUNICATION SKILLS	3.45	-	3	NONE	NONE
1	1	SS022	READINGS IN PHILIPPINE HISTORY	3.45	-	3	NONE	NONE
1	1	PE001	PHYSICAL ACTIVITIES TOWARDS HEALTH AND FITNESS 1	-	2.30	2	NONE	NONE
1	1	VE021	LIFE COACHING SERIES 1	1.25	-	(1)	NONE	NONE
TOTAL				22.5	2.	16		

2 ND Term								
Year	Term	Code	Title	Lec. Hrs.	Lab Hrs.	Credit Units	Prerequisites	Co-requisites
1	2	BIO111	GENERAL ZOOLOGY	3.45	-	3	NONE	NONE
1	2	BIO110L	GENERAL ZOOLOGY LABORATORY	0.0	7.50	2	NONE	NONE
1	2	SS021	UNDERSTANDING THE SELF	3.45	-	3	NONE	NONE
1	2	ENG024	WRITING FOR ACADEMIC STUDIES	3.45	-	3	NONE	NONE
1	2	MATH035	MATHEMATICS IN THE MODERN WORLD	3.45	-	3	NONE	NONE
1	2	PE002	PHYSICAL ACTIVITIES TOWARDS HEALTH AND FITNESS 2	-	7.50	2	NONE	NONE
1	1	VE022	LIFE COACHING SERIES 2	1.15	-	(1)	NONE	NONE
TOTAL				22.5	15.0	16		

3 RD Term								
Year	Term	Code	Title	Lec. Hrs.	Lab Hrs.	Credit Units	Prerequisites	Co-requisites
1	3	BIO112	GENERAL ECOLOGY	3.45	-	3	BIO110, BIO111	NONE
1	3	BIO112L	GENERAL ECOLOGY LABORATORY	0.0	7.50	2	BIO110L, BIO111L	BIO112
1	3	CHM030	ANALYTICAL METHODS FOR BIOLOGY	3.45	-	3	NONE	NONE
1	3	CHM030L	ANALYTICAL METHODS FOR BIOLOGY LABORATORY	0.0	7.50	2	NONE	CHM030
1	3	ENG041	PURPOSIVE COMMUNICATION	3.45	-	3	NONE	NONE
1	3	PE003	PHYSICAL ACTIVITIES TOWARDS HEALTH AND FITNESS 3	-	7.5	2	PE001, PE002	NONE
1	3	VE023	LIFE COACHING SERIES 3	1.25	-	(1)	VE021, VE022	NONE
TOTAL				22.5		16		

SECOND YEAR

1 ST Term								
Year	Term	Code	Title	Lec. Hrs	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
2	1	CHM040	ORGANIC MOLECULES	3.45	0.0	3	CHM030	NONE

2	1	CHM040L	ORGANIC MOLECULES LABORATORY	0.0	7.50	2	CHM030L	CHM40
2	1	BIO113	HUMAN ANATOMY AND PHYSIOLOGY	3.45	0.0	3	BIO111	NONE
2	1	BIO113L	HUMAN ANATOMY AND PHYSIOLOGY LABORATORY	0.0	7.50	2	BIO111L	BIO113
2	1	MATH130	BIostatISTICS	3.45	0.0	2	MATH035	NONE
2	1	MATH130L	BIostatISTICS LABORATORY	0	3.45	1	NONE	MATH130
2	1	ENV075	ENVIRONMENTAL SCIENCE	3.45	0.0	3	NONE	NONE
2	1	PE004	PHYSICAL ACTIVITIES TOWARDS HEALTH AND FITNESS 4	0.0	7.5	2	PE001,PE002 PE003	NONE
TOTAL				18	18.45	16		

2 nd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
2	2	CHM060	BIOMOLECULES	3.45	0.0	3	CHM040	NONE
2	2	CHM060L	BIOMOLECULES LABORATORY	0.0	7.50	2	CHM040L	CHM60L
2	2	BIO114	SYSTEMATICS	3.45	0.0	3	BIO111	NONE
2	2	BIO114L	SYSTEMATICS LABORATORY	0.0	7.50	2	BIO111L	BIO113L
2	2	CS10-8	COMPUTER PROGRAMMING	3.45	0.0	2	MATH035	NONE
2	2	CS10-8L	COMPUTER PROGRAMMING LABORATORY	0	3.45	1	NONE	CS10-8
2	2	SS036	SCIENCE TECHNOLOGY AND SOCIETY	3.45	0.0	3	NONE	NONE
2	2	NSTP010	NATIONAL SERVICE TRAINING PROGRAM 1	3.45	0.0	(3)	NONE	NONE
TOTAL				18	18.45	16		

3 rd Term								
Year	Term	Code	Title	Lec. Hrs	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
2	3	BIO115	MICROBIOLOGY	3.45	0.0	3	BIO111, BIO 114	NONE
2	3	BIO115L	MICROBIOLOGY LABORATORY	0.0	7.50	2	BIO111L, BIO 114L	BIO115
2	3	BIO116	GENETICS	3.45	0.0	3	BIO110 AND BIO111	NONE
2	3	BIO116L	GENETICS LABORATORY	0.0	7.50	2	BIO110L AND BIO111L	BIO116
2	3	DS100L	APPLIED DATA SCIENCE LABORATORY	0.0	3.45	1	CS10-8L,CS10-8L	NONE
2	3	HUM039	ETHICS	3.45	0.0	3	NONE	NONE
2	3	NSTP011P	NATIONAL SERVICE TRAINING PROGRAM 2	2.30	3.45	(3)	NONE	NONE
TOTAL				12.65	21.90	14		

THIRD YEAR

1 ST Term								
Year	Term	Code	Title	Lec. Hrs	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
3	1	BIO117	MEDICAL MICROBIOLOGY	3.45	0.0	3	BIO115	NONE
3	1	BIO117L	MEDICAL MICROBIOLOGY LABORATORY	0.0	7.50	2	BIO115L	BIO117
3	1	BIO118	DEVELOPMENTAL BIOLOGY (PLANTS AND ANIMALS)	3.45	0.0	3	BIO110, BIO111 BIO 119	NONE
3	1	BIO118L	DEVELOPMENTAL BIOLOGY (PLANTS AND ANIMALS) LABORATORY	0.0	7.50	2	BIO110L, BIO111L, BIO119L	BIO118
3	1	BIO119	CELL AND MOLECULAR BIOLOGY	3.45	0.0	3	CS10-8,CS10-8L	NONE
3		BIO119L	CELL AND MOLECULAR BIOLOGY LABORATORY	0.0	7.50	2	NONE	BIO119

	1							
3	1	SS086	GENDER AND SOCIETY	3.45	0.0	3	NONE	NONE
TOTAL				13.80	22.50	18		

2 ND Term								
Year	Term	Code	Title	Lec. Hrs	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
3	2	BIO120	EVOLUTIONARY BIOLOGY	3.45	0.0	3	BIO 110, BIO111, BIO114	NONE
3	2	BIO120L	EVOLUTIONARY BIOLOGY LABORATORY	0.0	7.50	2	BIO 120,CS 10-8, DS100L	BIO120
3	2	BIO121	GENERAL PHYSIOLOGY	3.45	0.0	3	BIO110, BIO111, CHM060	NONE
3	2	BIO121L	GENERAL PHYSIOLOGY LABORATORY	0.0	7.50	2	BIO110L, BIO111L, CHM060L	BIO121
3	2	BIO190	METHODS OF BIOLOGICAL RESEARCH	3.45	0.0	3	MATH130; ENG024	NONE
3	2	PHY050	BIOPHYSICS	3.45	0.0	3	BIO 111,BIO112, MATH130	NONE
3	2	PHY050L	BIOPHYSICS LABORATORY	0.0	7.50	2	BIO 111L,BIO112L, MATH130L	PHY050
TOTAL				13.80	22.50	18		

3 RD Term								
Year	Term	Code	Title	Lec. Hrs	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
3	3	BIO122	HISTOLOGY AND HISTOPATHOLOGY	3.45	0.0	3.0	BIO131, BIO119, BIO121	NONE
3	3	BIO122L	HISTOLOGY AND HISTOPATHOLOGY LABORATORY	0.0	7.50	2.0	BIO131L, BIO119L, BIO121L	BIO122
3	3	BIO123	MEDICAL PARASITOLOGY	3.45	0.0	3.0	BIO111	NONE
3	3	BIO123L	MEDICAL PARASITOLOGY LABORATORY	0.0	7.50	2.0	BIO111L	BIO123
3	3	BIO124	IMMUNOLOGY	3.45	0.0	3.0	BIO131, BIO119	NONE
3	3	BIO200-1	THESIS 1/RESEARCH PROPOSAL	2.30	0.0	2.0	BIO190	NONE
3	3	SS038	THE LIFE AND WORKS OF JOSE RIZAL	3.45	0.0	3.0	NONE	NONE
TOTAL				16.10	22.50	18		

FOURTH YEAR

1 ST Term								
Year	Term	Code	Title	Lec. Hrs	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
4	1	BIO125	EPIDEMIOLOGY	3.45	0.0	3.0	BIO125	NONE
4	1	BIO125L	EPIDEMIOLOGY LABORATORY	0.0	7.50	2.0	BIO125L	BIO125
4	1	BIO126	BIOINFORMATICS FOR HEALTH SCIENCE	3.45	0.0	3.0	BIO120,CS 10-8L, DS100L	NONE
4	1	BIO200-2	THESIS 2/DATA GATHERING	0.0	7.50	2.0	BIO200-1	NONE
4	1	BIOELEC01	WILDLIFE ECOLOGY AND BIODIVERSITY CONSERVATION	3.45	0.0	3.0	NONE	NONE
4	1	SS085	PHILIPPINE INDIGENOUS COMMUNITIES (GEELECT-3)	3.45	0.0	3.0	NONE	NONE
TOTAL				16.10	22.50	16.0		

2ND Term

Year	Term	Code	Title	Lec. Hrs	Lab. Hrs.	Credit Units	Prerequisites	Co- requisites
4	2	BIO127	MEDICAL ENTOMOLOGY	3.45	0.0	3.0	BIO125	NONE
4	2	BIO127L	MEDICAL ENTOMOLOGY LABORATORY	0.0	7.50	2.0	BIO125L	BIO127
4	2	BIOELEC02	INTRODUCTION TO SUSTAINABILITY	3.45	0.0	3.0	BIO 112	NONE
4	2	BIO200-3	THESIS 3/ FINAL DEFENSE	0.0	7.50	2.0	BIO200-2	NONE
4	2	SS023	THE CONTEMPORARY WORLD	3.45	0.0	3.0	NONE	NONE
TOTAL				10.35	15.0	13.0		

3 RD Term								
Year	Term	Code	Title	Lec. Hrs	Lab. Hrs.	Credit Units	Prerequisites	Co- requisites
4	3	BIO199-R	MEDICAL BIOLOGY INTERNSHIP	-	22.0	3.0	BIO200-1	NONE
4	3	SGE101	STUDENT GLOBAL EXPERIENCE	-	0	0	NONE	NONE
TOTAL				10.35	15.0	13.0		

BACHELOR OF SCIENCE IN PSYCHOLOGY

Curriculum based on [relevant CHED CMO], applicable to freshmen beginning school year 2023-2024

FIRST YEAR

1 st Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
1	1	PSY 101	INTRODUCTION TO PSYCHOLOGY	3.75	-	3	NONE	NONE
1	1	ENG023	RECEPTIVE COMMUNICATION SKILLS	3.75	-	3	NONE	NONE
1	1	HUM034	ART APPRECIATION	3.75	-	3	NONE	NONE
1	1	SS021	UNDERSTANDING THE SELF	3.75	-	3	NONE	NONE
1	1	SS022	READINGS IN PHILIPPINE HISTORY	3.75	-	3	NONE	NONE
1	1	PE001	PHYSICAL ACTIVITIES TOWARDS HEALTH AND FITNESS 1	-	2.5	2	NONE	NONE
1	1	VE021	LIFE COACHING SERIES 1	1.25	-	-1	NONE	NONE
1	1	NSTP010	NATIONAL SERVICE TRAINING PROGRAM 1	2.5	-	-3	NONE	NONE
TOTAL				22.5	2.5	17		

2 nd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
1	2	PSY102	PSYCHOLOGICAL STATISTICS	3.75		3	NONE	NONE
1	2	PSY102L	PSYCHOLOGICAL STATISTICS LABORATORY	-	9	2	NONE	PSY102
1	2	ENG024	WRITING FOR ACADEMIC STUDIES	3.75		3	NONE	NONE
1	2	HUM021	LOGIC WITH CRITICAL THINKING	3.75		3	NONE	NONE
1	2	SS023	THE CONTEMPORARY WORLD	3.75		3	NONE	NONE
1	2	NSTP011P	NATIONAL SERVICE TRAINING PROGRAM 2 (PAIRED)	2.5	3.75	-3	NSTP010	NONE
1	2	VE022	LIFE COACHING SERIES 2	1.25	-	-1	VE021	NONE
1	2	PE002	PHYSICAL ACTIVITIES TOWARD HEALTH AND FITNESS 2	-	2.5	2	PE001	NONE
TOTAL				18.75	15.25	16		

3 rd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
1	3	PSY111	THEORIES OF PERSONALITY 1	3.75	-	3	PSY101	NONE
1	3	PSY115	PHYSIOLOGICAL PSYCHOLOGY	3.75	-	3	PSY101	NONE
1	3	ENG041	PURPOSIVE COMMUNICATION	3.75	-	3	NONE	NONE
1	3	ENV075	ENVIRONMENTAL SCIENCE	3.75	-	3	NONE	NONE
1	3	MATH035	MATHEMATICS in the MODERN WORLD	3.75	-	3	NONE	NONE
1	3	VE023	LIFE COACHING SERIES 3	1.25	-	-1	VE022	NONE
1	3	PE003	PHYSICAL ACTIVITIES TOWARD HEALTH AND FITNESS 3	-	2.5	2	PE002	NONE
TOTAL				27	2.5	17		

SECOND YEAR

1 st Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
2	1	PSY110	DEVELOPMENTAL PSYCHOLOGY	3.75	-	3	PSY111	NONE
2	1	BIO050	HUMAN BIOLOGY	3.75	-	3	NONE	NONE
2	1	BIO050L	HUMAN BIOLOGY (LABORATORY)	-	9	2	NONE	BIO150
2	1	CHM040	INTRODUCTION TO ORGANIC CHEMISTRY	3.75	-	2	NONE	NONE
2	1	CHM040L	INTRODUCTION TO ORGANIC CHEMISTRY (LABORATORY)	-	4.5	1	NONE	CHM040
2	1	PSY 121	THEORIES OF PERSONALITY 2	3.75	-	3	PSY111	NONE
2	1	PE004	PHYSICAL ACTIVITIES TOWARD HEALTH AND FITNESS 4	-	3	2	PE003	NONE
TOTAL				16.5	16.5	16		

2 nd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
2	2	PSY114	EXPERIMENTAL PSYCHOLOGY	3.75	-	3	PSY102	NONE
2	2	PSY114L	EXPERIMENTAL PSYCHOLOGY LABORATORY	-	9	2	PSY102L	PSY114
2	2	HUM080	PHILIPPINE POP CULTURE (GEELECT-1)	3.75	-	3	NONE	NONE
2	2	CHM060	BIOMOLECULES	3.75	-	3	CHM040	NONE
2	2	CHM060L	BIOMOLECULES LABORATORY	-	9	2	CHM040L	CHM060
2	2	CS 10-8	COMPUTER PROGRAMMING	3.75	-	2	NONE	NONE
2	2	CS 10-8L	COMPUTER PROGRAMMING (LABORATORY)	0	4.5	1	NONE	NONE
TOTAL				18	22.5	16		

3 rd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
2	3	PSY 117	PSYCHOLOGICAL ASSESSMENT	3.75	-	3.0	PSY 111	NONE
2	3	PSY 117L	PSYCHOLOGICAL ASSESSMENT LABORATORY	-	9.0	2.0	PSY 111	PSY 117
2	3	PSY 118	ABNORMAL PSYCHOLOGY	3.75	-	3.0	PSY 111	NONE
2	3	PSY113	CULTURE AND PSYCHOLOGY	3.75	-	3.0	PSY101	NONE
2	3	ENT078	THE ENTREPRENEURIAL MIND	3.75	-	3	NONE	NONE
2	3	DS100L	APPLIED DATA SCIENCE LABORATORY	0	4.5	1	NONE	NONE
TOTAL				18	13.5	15		

THIRD YEAR

1 st Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
3	1	PSY112	COGNITIVE PSYCHOLOGY	3.75	-	3	PSY101	NONE
3	1	PSY116	SOCIAL PSYCHOLOGY	3.75	-	3	PSY114	NONE
3	1	PSY 133	DISASTER AND MENTAL HEALTH PSYCHOLOGY	3.75	-	3.0	NONE	NONE
3	1	HUM 039	ETHICS	3.75	-	3.0	NONE	NONE
3	1	SS036	SCIENCE, TECHNOLOGY, AND SOCIETY	3.75	-	3	NONE	NONE
TOTAL				18	0	15.0		

2 nd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
3	2	PHY 050	BIOPHYSICS	3.75	-	3.0	NONE	NONE
3	2	PHY 050L	BIOPHYSICS LABORATORY	-	9.0	2.0	NONE	PHY050
3	2	PSY 120	FIELD METHODS IN PSYCHOLOGY	3.75	-	3.0	PSY 114	NONE
3	2	PSY 120L	FIELD METHODS IN PSYCHOLOGY LABORATORY	-	9.0	2.0	PSY 114L	PSY 120
3	2	PSY 134	PSYCHOLOGY FOR EXCEPTIONAL CHILDREN	3.75	-	3	PSY118	NONE
TOTAL				24	18	13.0		

3 rd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
3	3	PSY 200-1	RESEARCH IN PSYCHOLOGY I (Research Proposal)	3.0	-	2.0	PSY 114	NONE
3	3	PSY 131	INTRODUCTION TO COUNSELING	3.75	-	3.0	NONE	NONE
3	3	PSY 119	INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY	3.75	-	3.0	NONE	NONE
3	3	PSY 198-1	PSYCHOLOGY CORRELATION 1	6	-	-1	PSY 120; PSY 120L	NONE
3	3	SS086	GENDER AND SOCIETY (GEELECT-2)	3.75	-	3	NONE	NONE
3	3	SS085	PHILIPPINE INDIGENOUS COMMUNITIES (GEELECT-3)	3.75	-	3	NONE	NONE
TOTAL				25	0	14		

FOURTH YEAR

1 st Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
4	1	PSY136	CURRENT ISSUES IN PSYCHOLOGY	3.75	-	3	PSY114; PSY200	NONE
4	1	PSY 200-2	RESEARCH IN PSYCHOLOGY II (Data Gathering)	3.75	-	2	PSY 200-1	NONE
4	1	PSY137	POSITIVE PSYCHOLOGY	3.75	-	3	PSY101	NONE
4	1	PSY 198-2	PSYCHOLOGY CORRELATION 2	6	-	-1	PSY 198- 1	NONE
4	1	SS038	THE LIFE AND WORKS OF JOSE RIZAL	3.75	-	3	NONE	NONE
TOTAL				22.5	0	11		

2 nd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
4	2	PSY200 – 3	RESEARCH IN PSYCHOLOGY III (Final Defense)	3.75	-	2	PSY 200-2	NONE
4	2	PSY 135	GROUP DYNAMICS	3.75	-	3	NONE	NONE
4	2	PSY 132	INTRODUCTION TO CLINICAL PSYCHOLOGY	3.75	-	3.0	NONE	NONE
TOTAL				11.25	0	8		

3 rd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
4	3	PSY 199-R	COMPANY IMMERSION/OJT	-	15	3	PSY 120: PSY 120L	NONE
4	3	SGE101	STUDENT GLOBAL EXPERIENCE	-		0	NONE	NONE
TOTAL					15	3		

BACHELOR OF SCIENCE IN PHARMACY

Curriculum based on [relevant CHED CMO], applicable to freshmen beginning school year 2023-2024

FIRST YEAR

1 st Term								
Ye ar	Te rm	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequi sites	Co-requisit es
1	1	PH101	PHARMACEUTICAL INORGANIC CHEMISTRY WITH QUALITATIVE ANALYSIS	2.50	0.00	2.00	NONE	NONE
1	1	PH101L	PHARMACEUTICAL INORGANIC CHEMISTRY WITH QUALITATIVE ANALYSIS LAB	0.00	3.75	1.00	NONE	NONE
1	1	MATH035	MATHEMATICS IN THE MODERN WORLD	3.75		3.00	NONE	NONE
1	1	PH102	PERSPECTIVES IN PHARMACY	2.50		2.00	NONE	NONE
1	1	PHP104P	PHARMACEUTICAL BOTANY WITH TAXONOMY LEC &LAB	2.50	3.75	3.00	NONE	NONE
1	1	ENG023	RECEPTIVE COMMUNICATION SKILLS	3.75	-	3.00	NONE	NONE
1	1	SS021	UNDERSTANDING THE SELF	3.75	-	3.00	NONE	NONE
	1	PE001	PHYSICAL ACTIVITIES TOWARD HEALTH AND FITNESS 1	2.50	-	2.00	NONE	NONE
1	1	VE021	LIFE COACHING SERIES 1	1.25	-	(1.0)	NONE	NONE
TOTAL				22.50	7.50	19		

2 nd Term								
Ye ar	Te rm	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequi sites	Co-requisit es
1	2	PHP105P	PHARMACEUTICAL CALCULATIONS AND TECHNIQUES LEC & LAB	2.50	3.75	3.00	MATH 035-1	NONE
1	2	PH107	PHARMACEUTICAL ORGANIC CHEMISTRY LEC	2.50	0.00	2.00	PH102	NONE
1	2	PH107L	PHARMACEUTICAL ORGANIC CHEMISTRY LAB	0.00	3.75	1.00	PH102 L	NONE
1	2	PH112	QUANTITATIVE PHARMACEUTICAL CHEMISTRY LEC	2.50	0.00	2.00	PH102	NONE
1	2	PH112L	QUANTITATIVE PHARMACEUTICAL CHEMISTRY LAB	0.00	3.75	1.00	PH102 L	NONE
1	2	ENG024	WRITING FOR ACADEMIC STUDIES	3.75	0.00	3.00	NONE	NONE
1	2	HUM034	ART APPRECIATION	3.75	0.00	3.0	NONE	NONE
1	2	PE002	PHYSICAL ACTIVITIES TOWARD HEALTH AND FITNESS 2	2.50	0.00	2.0	NONE	NONE
	2	NSTP010	NATIONAL SERVICE TRAINING PROGRAM 1	3.75	0.00	(3.0)	NONE	NONE
1	2	VE022	LIFE COACHING SERIES 2	1.25		1.00	NONE	NONE
TOTAL				22.50	11.25	17		

3 rd Term								
Ye ar	Ter m	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequ isites	Co-requisit es

1	3	PH110	INTRODUCTION TO PHARMACY ADMINISTRATION, MANAGEMENT AND LEADERSHIP	2.50	0.00	2.00	NONE	NONE
1	3	PH113	PHARMACEUTICAL DOSAGE FORMS, DRUG DELIVERY SYSTEMS AND MEDICAL DEVICES LEC	2.50	0.00	2.00	PHP105P	NONE
1	3	PH113L	PHARMACEUTICAL DOSAGE FORMS, DRUG DELIVERY SYSTEMS AND MEDICAL DEVICES LAB	0.00	7.50	2.00	PH105P	PH113
1	3	CS10-8	COMPUTER PROGRAMMING LECTURE	1.25	0.00	1.00	NONE	NONE
1	3	CS10-8L	COMPUTER PROGRAMMING LABORATORY	0.00	3.75	1.00	NONE	NONE
1	3	BHS104	HUMAN PHYSIOLOGY AND PATHOLOGY LEC	3.75	0.00	3.00	NONE	NONE
1	3	BHS104L	HUMAN PHYSIOLOGY AND PATHOLOGY LAB	0.00	3.75	1.00	NONE	NONE
1	3	SS022	READINGS IN PHILIPPINE HISTORY	3.75	0.00	3.00	NONE	NONE
	3	ENG041	PURPOSIVE COMMUNICATION	3.75	0.00	3.00	NONE	NONE
1	3	PE003	PHYSICAL ACTIVITIES TOWARD HEALTH AND FITNESS 3	2.50	-	2.00	FW001; FW002	NONE
1	3	NSTP011-P	NATIONAL SERVICE TRAINING PROGRAM 2	2.50	3.75	(3.0)	NSTP010-1	NONE1
1	3	VE023	LIFE COACHING SERIES 3	1.25	-	(1.0)	VE022	NONE
TOTAL TOTAL				23.75	18.75	20.0		

SECOND YEAR

1 st Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
2	1	PH116	PHARMACEUTICAL BIOCHEMISTRY LEC	3.75	-	3.00	PH107, BHS104	NONE
2	1	PH116L	PHARMACEUTICAL BIOCHEMISTRY LAB	0.00	3.75	1.00	PH107L, BHS104L	NONE
2	1	PH123	PHYSICAL PHARMACY LEC	2.50	-	2.00	PH113	NONE
2	1	PH123L	PHYSICAL PHARMACY LAB	0.00	3.75	1.00	PH113L	NONE
2	1	PH127	PHARMACEUTICAL AND MEDICINAL ORGANIC CHEMISTRY LEC	2.50	0.00	2.00	PH107	NONE
2	1	PH127L	PHARMACEUTICAL AND MEDICINAL ORGANIC CHEMISTRY LAB	0.00	3.75	1.00	PH107L	NONE
2	1	HUM039	ETHICS	3.75	-	3.00	NONE	NONE
	1	PH109	INTRODUCTION TO HEALTHCARE SYSTEM	1.25	0.00	1.00	NONE	NONE
2	1	SS085	PHILIPPINE INDIGENOUS COMMUNITIES	3.75	-	3.00	NONE	NONE
2	1	DS100L	DATA SCIENCE	0.00	3.75	1.00	NONE	NONE
TOTAL				17.50	15.00	18.0		

2nd Term

Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
2	2	PH119	PHARMACEUTICAL MICROBIOLOGY AND PARASITOLOGY	3.75	-	3.00	BHS104, PH116	NONE
2	2	PH119	PHARMACEUTICAL MICROBIOLOGY AND PARASITOLOGY	-	3.75	1.00	BHS104L, PH116L	NONE
2	2	PH115P	DISPENSING 1 LEC & LAB	1.25	3.75	2.00	PHP105	NONE
2	2	PHP125P	PHARMACY INFORMATICS LEC & LAB	1.25	3.75	2.00	CS10-8L, DS100L	NONE
2	2	PH190	PHARMACY RESEARCH METHODS AND STATISTICS	2.50	0.00	2.00	ENGL024-1	NONE
2	2	SS036	SCIENCE, TECHNOLOGY AND SOCIETY	3.75		3.00	NONE	NONE
2	2	ENT078	THE ENTREPRENEUREAL MIND	3.75		3.00	NONE	NONE
	2	PE004	PHYSICAL ACTIVITIES TOWARD HEALTH AND FITNESS 4	2.50	-	2.00	FW001; FW002	NONE
TOTAL				18.75	11.25	18		

3 rd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
2	3	PH131	INSTRUMENTAL ANALYSIS	2.50	-	2.00	PH112	NONE
2	3	PH131L	INSTRUMENTAL ANALYSIS LABORATORY	-	3.75	1.00	PH112L	PH131
2	3	PH133	PHARMACOLOGY 1	3.75	-	3.00	PH121P,PH119	NONE
2	3	PH137	DESIGNER DRUGS, VACCINES AND IMMUNOTHERAPIES	2.50	-	2.00	BHS104	NONE
2	3	PH118	BIOPHARMACEUTICS AND PHARMACOKINETICS	3.75		3.00	PH123	NONE
2	3	SS023	THE CONTEMPORARY WORLD	3.75	-	3.00	NONE	NONE
2	3	SS038	THE LIFE AND WORKS OF RIZAL	3.75	-	3.00	NONE	NONE
	3	BHS160	COMPUTER APPLICATIONS IN CHEMICAL/BIOLOGICAL ENGINEERING AND APPLIED CHEMISTRY WITH ML AND AI	1.25	-	1.00	NONE	NONE
2	3	BHS160L	COMPUTER APPLICATIONS IN CHEMICAL/BIOLOGICAL ENGINEERING AND APPLIED CHEMISTRY WITH ML AND AI (LAB)	-	3.75	1.00	NONE	BHS160
TOTAL				21.25	7.50	19.0		

THIRD YEAR

1st Term

Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
3	1	PH129	PHARMACOGNOSY AND PLANT CHEMISTRY	3.75	-	2.00	PH104P	NONE
3	1	PH129L	PHARMACOGNOSY AND PLANT CHEMISTRY LABORATORY	-	3.75	1.00	PH104P	NONE
3	1	PH134	PHARMACOLOGY 2	3.75	-	3.00	PH133	NONE
3	1	PH136P	DISPENSING 2 LEC & LAB	2.50	3.75	3.00	PH115P, PH113	NONE
3	1	PH153	SOCIAL AND ADMINISTRATIVE PHARMACY	1.25	-	1.00	PH110	NONE
3	1	PH155	LEGAL PHARMACY AND ETHICS	2.50	-	2.00	PH125P ; HUM03 9-1	NONE
3	1	PH200-1	PHARMACY RESEARCH AND THESIS WRITING 1	2.50	-	2.00	PH190	NONE
	1	SS086	GENDER AND SOCIETY	3.75	-	3.00	NONE	NONE
TOTAL				20.0	7.50	17		
TOTAL				0				

2nd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
3	2	PH135	PHARMACEUTICAL MANUFACTURING	2.50	-	2.00	PH123	NONE
3	2	PH135L	PHARMACEUTICAL MANUFACTURING LAB	-	7.50	2.00	PH123L	NONE
3	2	PH140	DRUG DISCOVERY, DESIGN AND DEVELOPMENT	2.50		2.00	PH133, PH125P	NONE
3	2	PH142	CLINICAL PHARMACY AND PHARMACOTHERAPEUTICS 1	3.75	-	3.00	PH134	NONE
3	2	PH144	HOSPITAL PHARMACY	2.50	-	2.00	PH136P	NONE
3	2	PH148	PUBLIC HEALTH PHARMACY AND PHARMACOEPIDEMOLOGY	2.50	-	2.00	PH119	NONE
3	2	PH200-2	PHARMACY RESEARCH AND THESIS WRITING 2	1.25	3.75	2.00	PH200-1	NONE
TOTAL				15.0	11.2	15.0		
				0	5	0		

3rd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
3	3	PH143	CLINICAL PHARMACY AND PHARMACOTHERAPEUTICS 2	3.75	-	3.00	PH142	NONE
3	3	PH145	PHARMACEUTICAL TOXICOLOGY	2.50	3.75	3.00	PH134	NONE
3	3	PH150	COSMETIC PRODUCT DEVELOPMENT	1.25	3.75	2.00	PH135, PH135L	NONE
3	3	PH151P	HEALTH TECHNOLOGY ASSESSMENT AND ECONOMICS	1.25	3.75	2.00	PH123, PH123L	NONE
3	3	PH149	PHARMACEUTICAL MARKETING AND ENTREPRENEURSHIP	2.50	-	2.00	ENT078	NONE
3	3	PH200-3	PHARMACY RESEARCH AND THESIS WRITING 3	1.25	3.75	2.00	PH200-2	NONE

3	3	TOTAL		12.50	15.00	14.00		
TOTAL								

FOURTH YEAR

1 st Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
4	1	PH197	PHARMACY CORRELATION 1	-	3.75	1.00	PH144	NONE
4	1	PH199-1	SUPERVISED PHARMACY PRACTICE (INSTITUTIONAL)	0.00	120.00	2.40	PH200-2	NONE
4	1	PH199-2	SUPERVISED PHARMACY PRACTICE (COMMUNITY)	0.00	300.00	6.00	NONE	PH199-1
4	1	PH199-3	SUPERVISED PHARMACY PRACTICE (PUBLIC HEALTH AND REGULATORY)	0.00	180.00	3.60	NONE	PH199-1
		TOTAL		-	603.75	13.00		

2 nd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
4	2	PH198	PHARMACY CORRELATION 2	-	3.75	1.00	PH197	NONE
4	2	PH199-4	SUPERVISED PHARMACY PRACTICE (INDUSTRIAL PHARMACY)	0.00	300.00	6.00	PH149	NONE
		TOTAL		-	303.75	7.00		

3 rd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequisites	Co-requisites
4	3	PH199-5	SUPERVISED PHARMACY PRACTICE (HOSPITAL PHARMACY)		300.0	6.0	PH144	NONE
4	3	SGE	STUDENT GLOBAL EXPERIENCE		-	0.0	NONE	NONE
		TOTAL		-	300.00	6.00		

BACHELOR OF SCIENCE IN PHYSICAL THERAPY

Curriculum based on [relevant CHED CMO], applicable to freshmen beginning school year 2023-2024

FIRST YEAR

1 st Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Pre-requisites	Co-requisites
1	1	PT101	INTRODUCTION TO PHYSICAL THERAPY	3.75	-	3.00	NONE	NONE
1	1	PT102	HUMAN ANATOMY AND PHYSIOLOGY	3.75	-	3.00	NONE	NONE
1	1	PT102L	HUMAN ANATOMY AND PHYSIOLOGY LABORATORY	-	7.50	2.00	NONE	NONE
1	1	ENG023	RECEPTIVE COMMUNICATION SKILLS	3.75	-	3.00	NONE	NONE
1	1	SS021	UNDERSTANDING THE SELF	3.75	-	3.00	NONE	NONE
1	1	MATH035	MATHEMATICS IN THE MODERN WORLD	3.75	-	3.00	NONE	NONE
1	1	PE001	PHYSICAL ACTIVITIES TOWARD HEALTH AND FITNESS 1	2.50	-	2.00	NONE	NONE
1	1	SS022	READINGS IN PHILIPPINE HISTORY	3.75	-	3.00	NONE	NONE
1	1	VE021	LIFE COACHING SERIES 1	1.25	-	(1.0)	NONE	NONE
TOTAL				26.25	7.50	22.00		

2 nd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Pre-requisites	Co-requisites
1	2	PT103	APPLIED ANATOMY AND KINESIOLOGY	3.75	-	3.00	NONE	NONE
1	2	PT103L	APPLIED ANATOMY AND KINESIOLOGY LABORATORY	-	7.50	2.00	NONE	NONE
1	2	ENG024	WRITING FOR ACADEMIC STUDIES	3.75	-	3.00	NONE	NONE
1	2	ENG041	PURPOSIVE COMMUNICATION	3.75	-	3.00	NONE	NONE
1	2	PE002	PHYSICAL ACTIVITIES TOWARD HEALTH AND FITNESS 2	2.50	-	2.00	NONE	NONE
1	2	NSTP010	NATIONAL SERVICE TRAINING PROGRAM 1	3.75	-	(3.0)	NONE	NONE
1	2	VE022	LIFE COACHING SERIES 2	1.25	-	(1.0)	VE021	NONE
TOTAL				18.75	7.50	13.00		

3 rd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Pre-requisites	Co-requisites
1	3	PT104	NEUROANATOMY WITH NEUROPHYSIOLOGY	3.75	-	3.00	PT102, PT103	NONE
1	3	PT104L	NEUROANATOMY AND NEUROPHYSIOLOGY LABORATORY	-	3.75	1.00	PT102L, PT103L	PT105
1	3	CS10-8	COMPUTER PROGRAMMING LECTURE	2.50	-	2.00	NONE	NONE
1	3	CS10-8L	COMPUTER PROGRAMMING LABORATORY	-	3.75	1.00	NONE	NONE
1	3	HUM039	ETHICS	3.75	-	3.00	NONE	NONE
1	3	HUM034	ART APPRECIATION	3.75	-	3.00	NONE	NONE
1	3	PE003	PHYSICAL ACTIVITIES TOWARD HEALTH AND FITNESS 3	2.50	-	2.00	FW001; FW002	NONE
1	3	NSTP011-P	NATIONAL SERVICE TRAINING PROGRAM 2	2.50	3.75	(3.0)	NSTP010	NONE
1	3	VE023	LIFE COACHING SERIES 3	1.25	-	(1.0)	VE022	NONE
TOTAL				20	11.25	15.00		

SECOND YEAR

1 st Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Pre-requisites	Co-requisites
2	1	PT105	ORGAN SYSTEM ANATOMY	2.50	-	2.00	PT102	NONE
2	1	PT105L	ORGAN SYSTEM ANATOMY LABORATORY	-	3.75	1.00	PT102	PT103
2	1	PT107	PRINCIPLES OF PT EVALUATION	3.75	-	3.00	PT102	NONE
2	1	PT107L	PRINCIPLES OF PT EVALUATION LABORATORY	-	7.50	2.00	PT102	PT107
2	1	PT108	PSYCHIATRIC FOUNDATIONS	2.50	-	2.00	PT106	NONE
2	1	PT112	HEALTH AND SOCIAL MEDIA	1.25	-	1.00	PT102	PT107
2	1	SS085	PHILIPPINE INDIGENOUS COMMUNITIES	3.75	-	3.00	NONE	NONE
2	1	PT113	TEACHING AND LEARNING	2.50	-	2.00	PT101	NONE
2	1	PT113L	TEACHING AND LEARNING LABORATORY	-	7.50	2.00	PT101	PT113
TOTAL				16.25	18.75	18.00		

2 nd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequis ites	Co-requisites
2	2	PT118	PHYSICAL AGENTS AND ELECTROTHERAPY	2.50		2.00	PT113	NONE

2	2	PT118L	PHYSICAL AGENTS AND ELECTROTHERAPY LABORATORY		3.75	1.00	PT113L	PT114
2	2	PT115	ORTHOPEDIC AND SPORTS PT 1	3.75		3.00	PT110	NONE
2	2	PT115L	ORTHOPEDIC AND SPORTS PT 1 LABORATORY		3.75	1.00		
2	2	PT124	WELLNESS AND HEALTH PROMOTION 1	1.25		1.00	PT110	NONE
2	2	PT124L	WELLNESS AND HEALTH PROMOTION 1 LABORATORY		3.75	1.00	PT110L	PT124
2	2	PT129	INDUSTRIAL REHABILITATION	1.25		1.00	PT107, PT107L	NONE
2	2	ENT078	THE ENTREPRENEURIAL MIND	3.75		3.00	NONE	NONE
2	2	BHS160	COMPUTER APPLICATIONS IN CHEMICAL/BIOLOGICAL ENGINEERING AND APPLIED CHEMISTRY WITH ML AND AI	1.25		1.00	NONE	NONE
2	2	BHS160L	COMPUTER APPLICATIONS IN CHEMICAL/BIOLOGICAL ENGINEERING AND APPLIED CHEMISTRY WITH ML AND AI LABORATORY		3.75	1.00	NONE	BHS160
2	2	PT110	HUMAN GROWTH AND DEVELOPMENT	2.50		2.00		
2	2	PE004	PHYSICAL ACTIVITIES TOWARD HEALTH AND FITNESS 4	2.50		2.00	PE001-1, PE002-1	NONE
TOTAL				18.75	15.00	19.00		

3 rd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequi sites	Co-requisites
2	3	PT116	ORTHOPEDIC AND SPORTS PT 2	3.75		3.00		
2	3	PT116L	ORTHOPEDIC AND SPORTS PT 2 LABORATORY		7.50	2.00		
2	3	PT122	NEUROLOGIC PT 1	2.50		2.00	PT106, PT107	NONE
2	3	PT122L	NEUROLOGIC PT 1 LABORATORY		3.75	1.00	PT105L, PT107L	PT122
2	3	PT125	WELLNESS AND HEALTH PROMOTION 2 (In multi-cultural settings)	2.50		2.00	PT124	NONE
2	3	PT125L	WELLNESS AND HEALTH PROMOTION 2 LABORATORY (In multi-cultural settings)		3.75	1.00	PT124L	PT125
2	3	PT130	INNOVATIONS IN PT SERVICE DELIVERY 1 (CLINICAL SYSTEMS)	1.25		1.00	PT119	NONE
2	3	PT133	HEALTH INFORMATICS	2.50		2.00	DS100L	NONE
2	3	PT190	RESEARCH METHODS AND STATISTICS	3.75		3.00	ENG024-1	NONE
2	3	SS086	GENDER AND SOCIETY	3.75		3.00	NONE	NONE
TOTAL				20.00	15.00	20.00		

THIRD YEAR

1 st Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequi sites	Co-requisites
3	1	PT117	ORTHOPEDIC AND SPORTS PT 3	3.75		3.00	PT116	NONE
3	1	PT117L	ORTHOPEDIC AND SPORTS PT 3 LABORATORY		3.75	1.00	PT116L	PT117
3	1	PT120	ASSISTIVE TECHNOLOGY	1.25		1.00	PT107, PT118	NONE
3	1	PT120L	ASSISTIVE TECHNOLOGY LABORATORY		3.75	1.00	PT107L, PT118L	PT120
3	1	PT123	NEUROLOGIC PT 2	2.50		2.00	PT122	NONE
3	1	PT123L	NEUROLOGIC PT 2 LABORATORY		7.50	2.00	PT122L	PT123
3	1	PT137	PHARMACOLOGY	2.50		2.00		
3	1	SS036	SCIENCE, TECHNOLOGY AND SOCIETY	3.75		3.00	NONE	NONE
3	1	PH200-1	RESEARCH PROPOSAL WRITING	2.50		2.00	PT190	NONE
TOTAL				16.25	15.00	17.00		

2 nd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequi sites	Co-requisites
3	2	PT128	CARDIO-PULMONARY PT	2.50		2.00	PT120	NONE
3	2	PT128L	CARDIO-PULMONARY PT LABORATORY		3.75	1.00	PT120L	PT128
3	2	PT121	PEDIATRIC PT	2.50		2.00		
3	2	PT121L	PEDIATRIC PT LABORATORY		3.75	1.00		
3	2	PT131	INNOVATIONS IN PT SERVICE DELIVERY 2 (Non-CLINICAL Systems)	2.50		2.00	PT128	NONE
3	2	PT131L	INNOVATIONS IN PT SERVICE DELIVERY 2 LABORATORY (Non-CLINICAL Systems)		3.75	1.00	PT128L	PT131
3	2	PT119	PHYSICAL THERAPY ETHICS	2.50		2.00		

3	2	PT136	ORGANIZATION, PT LEADERSHIP AND ADMIN	2.50		2.00	PT119, PT126	NONE
3	2	PT136L	ORGANIZATION, PT LEADERSHIP AND ADMIN LABORATORY		3.75	1.00	PT119, PT126	PT136
3	2	SS023	THE CONTEMPORARY WORLD	3.75		3.00	NONE	NONE
3	2	PH200-2	RESEARCH IMPLEMENTATION	1.25	3.75	2.00	PT200-1	NONE
TOTAL				17.50	18.75	19.00		

3 rd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequi sites	Co- requisites
3	3	PT126	COMMUNITY-BASED REHABILITATION	2.50		2.00	PT107, PT107L	NONE
3	3	PT126L	COMMUNITY-BASED REHABILITATION LABORATORY		3.75	1.00		PT126
3	3	PT127	GERIATRIC PT & RHEUMA PT	2.50		2.00	PT107	NONE
3	3	PT127L	GERIATRIC PT & RHEUMA PT LABORATORY		3.75	1.00	PT107L	PT127
3	3	PT132	INTEGUMENTARY PT AND OTHER MEDICAL CONDITIONS (OBSTETRICS, ONCOLOGY, ENDOCRINE & IMMUNOLOGY)	2.50		2.00	PT104	NONE
3	3	PT132L	INTEGUMENTARY PT AND OTHER MEDICAL CONDITIONS LABORATORY (OBSTETRICS, ONCOLOGY, ENDOCRINE & IMMUNOLOGY)		3.75	1.00	PT104L	PT132
3	3	PT135	SEMINARS	2.50		2.00	PT124	NONE
3	3	SGE1004	STUDENT GLOBAL EXPERIENCE	0.00	0.00	0.00	PT190	NONE
3	3	SS038	THE LIFE AND WORKS OF RIZAL	3.75		3.00	NONE	NONE
3	3	PH200-3	PT RESEARCH FINAL DEFENSE AND PUBLICATION	2.50		2.00	PT200-2	NONE
TOTAL				16.25	11.25	16.00		

FOURTH YEAR

1 st Term								
Year	Term	Code	Title	Lec Hrs.	Lab. Hrs.	Credit Units	Prerequi sites	Co- requisites
4	1	PT199-1R	INTERNSHIP 1		450.00	9.00	PT190	NONE
4	1	PT198-1	PT CLINICAL CORRELATION 1		3.75	1.00	PT119	NONE
TOTAL					453.75	10.00		

2 nd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequis ites	Co- requisites
4	2	PT199-2R	INTERNSHIP 2		450.00	9.00	PT199-1R	NONE
4	2	PT198-2	PT CLINICAL CORRELATION 2		3.75	1.00	PT198-1	NONE
TOTAL					453.75	10.00		

3 rd Term								
Year	Term	Code	Title	Lec. Hrs.	Lab. Hrs.	Credit Units	Prerequis ites	Co- requisites
4	3	PT199-3R	INTERNSHIP 3		300.00	6.00	PT199-2R	NONE
4	3	PT199-4R	INTERNSHIP 4		300.00	6.00	PT199-2R	NONE
TOTAL					600.00	12.00		

DESCRIPTION OF COURSES

BACHELOR OF SCIENCE IN BIOLOGY Major in Medical Biology

CORE COURSES

Course Code	BIO110
Course Title	General Botany
Pre-Requisite	None
Co-Requisite	None
Credit units	3
Class Schedule	1.5 hour per meeting / 4.5 hours per week
Course Description: Botany is the scientific study of plants and their significant relationship to the environment. In this course subject, the students will investigate the growth, reproduction, Anatomy, Morphology, Physiology, Biochemistry, Taxonomy, Genetics and Ecology of plants.	

Course Code	BIO110L
Course Title	General Botany Laboratory
Pre-Requisite	None
Co-Requisite	BIO110
Credit units	2
Class Schedule	4.5 hours per meeting/9 hrs./week
Course Description: This course provides the fundamental biological concepts relevant to plant physiology, life cycle, growth and development, structure and function, and cellular and molecular metabolism. The role of plants in the environment, evolution, and phylogeny of major plant groups, algae, ferns and its allies, angiosperms, gymnosperms, bryophytes, and fungi. Laboratory activities are integrated to reinforce lecture topics that will enhance its learning competencies to all Biology students leading to observe scientific methods. This course is intended for Biology students.	

Course Code	BIO111
Course Title	General Zoology
Pre-Requisite	None
Co-Requisite	None
Credit units	3
Class Schedule	1.5 hour per meeting / 4.5 hours per week
Course Description: Zoology is a branch of Biology that deals with animals and animal life, including the classification, relationships, structure, and function of major animal phyla. Emphasis is on levels of organization, reproduction and development, comparative systems, and a survey of selected phyla. Further, some of the topics discussed in this course subject include the classification of animals, invertebrates, including sponges, flatworms, mollusks, insects, arthropods, and echinoderms, and vertebrates, including fishes, amphibians, reptiles, birds, and mammals.	

Course Code	BIO111L
Course Title	General Zoology Laboratory
Pre-Requisite	None
Co-Requisite	BIO111
Credit units	2
Class Schedule	4.5 hours per meeting/9 hrs./week
Course Description: This course contributes to the understanding of the basic principles of Zoology and practical experience with animal organisms in the laboratory. Thus, the course teaches students about the anatomical characteristics of animals and	

how these characteristics relate to animal functions. It also introduces students to the concepts of ontogenesis and phylogenesis through evolution.

Course Code	BIO112
Course Title	General Ecology
Pre-Requisite	BIO110 and BIO111
Co-Requisite	None
Credit units	3
Class Schedule	1.5 hour per meeting / 4.5 hours per week
Course Description:	
Ecology is the study of the interactions between organisms and their environment. This course is designed to introduce students to ecological principles and concepts. It also provides a background in the fundamental principles of ecological science, including concepts of natural selection, population and community ecology, biodiversity, and sustainability. Further, the students will acquire an ecological literacy about how the natural world works and develop an understanding of how scientific methods are used to construct ecological knowledge.	

Course Code	BIO112L
Course Title	General Ecology Laboratory
Pre-Requisite	NONE
Co-Requisite	BIO112
Credit units	2
Class Schedule	4.5 hours per meeting/9 hrs./week
Course Description:	
This course consists of an introduction to laboratory and field studies in ecology. It aims to provide students with experience in using basic and practical ecological techniques and to illustrate ecological principles through laboratory and field work in aquatic and terrestrial ecosystems. In addition, it also gives the students an opportunity to develop skills in data analysis, evaluation, and writing a complete scientific paper related to the environment and its relationship to other living organisms.	

Course Code	BIO113
Course Title	Human Anatomy and Physiology
Pre-Requisite	BIO111
Co-Requisite	NONE
Credit units	3
Class Schedule	1.5 hour per meeting / 4.5 hours per week
Course Description:	
The course provides students with an introduction to the anatomical structures and physiological functions of the human body. Students will investigate the relationships between normal structure and function in human cells, tissues, and organs. Also, this course gives students in-depth instruction in the organization, structures, and functions of the human body. Students will learn the terminology, anatomy and physiology, and pathology of each body system and how they interrelate to maintain homeostasis.	

Course Code	BIO113L
Course Title	Human Anatomy and Physiology Laboratory
Pre-Requisite	NONE
Co-Requisite	BIO113
Credit units	2
Class Schedule	4.5 hours per meeting/9 hrs./week
Course Description:	
This laboratory course will give emphasis on anatomical terminology, fundamental biochemistry, and structure and function of the following components of the human body: cells, tissues, integument,	

skeleton, joints, muscles, and nervous system. The laboratory portion of the course also complements and reinforces the lecture using additional resources, focusing on closer examination of the body's components.

Course Code	BIO114
Course Title	Systematics
Pre-Requisite	BIO110 and BIO 111
Co-Requisite	BIO114L
Credit units	3
Class Schedule	1.5 hour per meeting / 4.5 hours per week
Course Description: In this course, different concepts and theories will be discussed such as theory of biological classification, taxonomy, nomenclature, and phylogenetics. Discussion of issues in systematic biology including species concepts and reticulate evolution will be included. The course is also directed at those students interested in studies of evolutionary biology, biodiversity, conservation biology, and/or systematics. Some of the topics that will be considered include species concepts and mechanisms of speciation, the major contemporary schools of taxonomy, methodologies of phylogeny estimation, the systematic significance of patterns of geographical distribution, considerations of molecular evolution as applied to systematic studies, the formation and use of research collections and nomenclature.	

Course Code	BIO114L
Course Title	Systematics Laboratory
Pre-Requisite	BIO110L and BIO111L
Co-Requisite	BIO114
Credit units	2
Class Schedule	4.5 hours per meeting/9 hrs./week
Course Description: Laboratory experience in phylogenetic methods, including parsimony, maximum likelihood, Bayesian inference, divergence time estimation, and ancestral state reconstruction. During laboratory session, students interested in the diversity of the living world to several facets of this eclectic field will be introduced with sampling designs interrelated to taxonomic keys and phylogenetic trees. Also, in this laboratory course, the students will be taught basic plant and animal identification, classification, and name according to Binomial Nomenclature.	

Course Code	BIO115
Course Title	General Microbiology
Pre-Requisite	BIO111 and BIO114
Co-Requisite	BIO115L
Credit units	3
Class Schedule	1.5 hour per meeting / 4.5 hours per week
Course Description: This course covers the principles and concepts of microbiology and how these minute organisms can affect on man and the environment. Topics include the various groups of microorganisms such as bacteria, fungi, virus, protozoans and other microbes in terms of their structure, physiology, Genetics, microbial pathogenicity, infectious diseases, immunology, and other practical applications in the environment.	

Course Code	BIO115L
Course Title	General Microbiology Laboratory
Pre-Requisite	BIO110 and BIO111
Co-Requisite	BIO115
Credit units	2
Class Schedule	4.5 hours per meeting/9 hrs./week
Course Description:	

This course covers preparation of stained smears, culturing micro-organisms, conducting immunology experiments, performing tests to identify bacteria and fungi, and studying microbial growth control methods. Also, the students will be taught in the laboratory the basic aseptic techniques, sterilization, gram staining, bacterial isolation and to keep the laboratory free from contamination of any microorganisms.

Course Code	BIO116
Course Title	Genetics
Pre-Requisite	BIO111 and BIO113
Co-Requisite	BIO116L
Credit units	3
Class Schedule	1.5 hour per meeting / 4.5 hours per week
Course Description: Genetics is the study of how physical traits are inherited and the chemical structures that influence those traits. This course will discuss the fundamental concepts of the molecular basis of heredity, chromosome structure, patterns of Mendelian and non-Mendelian inheritance, evolution, and biotechnological applications, basic Mendelian principles of heredity, the common extensions to Mendelian inheritance, including multiple alleles, lethal alleles, pleiotropy, epistasis, and sex-linkage. The students will learn to understand how physical and physiological traits are determined and passed to the next generation.	

Course Code	BIO116L
Course Title	Genetics Laboratory
Pre-Requisite	BIO111L and BIO113L
Co-Requisite	BIO116
Credit units	2
Class Schedule	4.5 hours per meeting/9 hrs./week
Course Description: The course includes both hands-on and computer simulation experiments that cover basic genetics concepts and techniques. Students will also explore the genetics published literature and hone your scientific writing in your lab notebook and when constructing lab reports. Scientific methods and their application to genetics principles will also be discussed.	

Course Code	BIO118
Course Title	Developmental Biology (Plants and Animals)
Pre-Requisite	BIO110, BIO111 and BIO116
Co-Requisite	BIO118L
Credit units	3
Class Schedule	1.5 hour per meeting / 4.5 hours per week
Course Description: The principles of developmental biology in plants and animals are covered in this course, with a focus on developmental genetics methods that have linked certain genetic pathways to developmental features. The course's first section introduces the fundamental concepts of developmental biology, such as cell-cell communication, cell identity, pluripotency, and differentiation. Examples of early animal and plant development are used to illustrate these concepts. The focus is on the ideas that link the development of animals and plants, like the signalling processes that preserve stem cell niches and the elements that influence a cell's capacity for development. The course's second section mainly focuses on animal development, including gastrulation, limb, and heart development.	

Course Code	BIO118L
Course Title	Developmental Biology (Plants and Animals) Laboratory
Pre-Requisite	BIO110L, BIO111L and BIO116L
Co-Requisite	BIO117
Credit units	2

Class Schedule	4.5 hours per meeting/9 hrs./week
Course Description:	
This laboratory course will emphasize mechanisms of fertilization, embryo anatomy, organogenesis, and regeneration. In addition, genes involved in regeneration are explored. This laboratory will use live animals (sea urchins, fertile chick eggs, and tadpoles) to provide a “hands-on” approach to understanding development.	

Course Code	BIO119
Course Title	Cell and Molecular Biology
Pre-Requisite	CHM060, BIO 113, BIO115 and BIO116
Co-Requisite	BIO119L
Credit units	3
Class Schedule	1.5 hour per meeting / 4.5 hours per week
Course Description:	
This discipline describes the structure and function of cells and its molecular level in all their genetic, biochemical, developmental, physiological, and pathophysiological aspects. This course will also introduce the students to the dynamic relationships between cell structure and the biochemical reactions that are necessary for cell growth, differentiation, survival, and death with an emphasis on eukaryotic cells.	

Course Code	BIO119L
Course Title	Cell and Molecular Biology Laboratory
Pre-Requisite	CHM060L, BIO113L, BIO115L and BIO116L
Co-Requisite	BIO119
Credit units	2
Class Schedule	4.5 hours per meeting/9 hrs./week
Course Description:	
This laboratory course applies concepts learned in the Molecular and Cell Biology course in scientific research. The research will also introduce students to standard genetic and biochemical techniques common in a molecular biology lab, such as DNA isolation, agarose-gel electrophoresis, and transformation. In addition, this laboratory course will also provide students with a hands-on understanding of how modern DNA-sequencing technology, along with bioinformatic tools, can be used to discover genetic differences and understand cellular function.	

Course Code	BIO120
Course Title	Evolutionary Biology
Pre-Requisite	BIO110, BIO111 and BIO114
Co-Requisite	BIO120L
Credit units	3
Class Schedule	1.5 hour per meeting / 4.5 hours per week
Course Description:	
The course emphasizes contemporary evolutionary theory in connection to the causes and evolution of genetic variation in time and space, reproductive isolation, and links between organismal groupings. The patterns and processes of biodiversity at various levels of biological organization are driven by interactions between the evolutionary forces of mutation, recombination, selection, migration, and genetic drift, according to an investigation by students.	

Course Code	BIO120L
Course Title	Evolutionary Biology Laboratory
Pre-Requisite	BIO110L, BIO111L, BIO114L
Co-Requisite	BIO120
Credit units	2

Class Schedule	4.5 hours per meeting/9 hrs./week
Course Description:	
A laboratory course that accompanies Evolutionary Biology Lecture course. It covers experiments and activities that simulates the evolution of a selected species.	

Course Code	BIO117
Course Title	Medical Microbiology
Pre-Requisite	BIO115
Co-Requisite	NONE
Credit units	3
Class Schedule	1.5 hour per meeting / 4.5 hours per week
Course Description:	
This course will cover mechanisms of infectious disease transmission, principles of aseptic practice, and the role of the human body's normal microflora. The biology of bacterial, viral, fungal, and parasitic pathogens and the diseases they cause will be discussed. Also, current topics including antibiotic resistance, public health threats, and global health issues will be tackled.	

Course Code	BIO117L
Course Title	Medical Microbiology Laboratory
Pre-Requisite	BIO115L
Co-Requisite	BIO117
Credit units	3
Class Schedule	4.5 hours per meeting/9 hrs./week
Course Description:	
This course will cover practical experience in the study of microorganisms. Experiments are designed to include techniques for the identification of microorganisms based on their physical (e.g. colony and cellular morphology), and physiological characteristics (e.g. growth patterns, antibiotic resistances). Students will be trained in the use of aseptic techniques for basic microbial applications. These applications include procedures for control of microbial growth, screening for microbial contamination of food and water samples and the use of microorganisms for production in industry.	

GENERAL EDUCATION COURSES

Course Code	ENG041
Course Title	Purposive Communication
Course Description:	
Purposive Communication is about writing, speaking, and presenting to different audiences and for various purposes. 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 academic endeavours, 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.	

Course Code	HUM034
Course Title	Art Appreciation
Course Description:	
Art Appreciation is a three-unit course that develops the students’ ability to appreciate, analyze, and critique works of art. Through interdisciplinary and multimodal approaches, this course equips students with a	

broad, practical, historical, philosophical, and social relevance of 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 that is Mindanao-centric.

Course Code	SS021
Course Title	Understanding The Self
Course Description: The course deals with the nature of identity, as well as the factors and forces that affect the development and maintenance of personal identity. The 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. The course is divided into three parts. The first part seeks to understand the construct of the self from various disciplinal perspectives, philosophy, sociology, anthropology, and psychology -as well as the more traditional division between the East and West – each seeking to provide answers to the difficult but essential questions of “What is the Self?”and raising among others, the question, “Is there even such a construct as the self?” The second part explores some of the various aspects that make up the self, such as the biological and material up to and including the more recent Digital Self. The third and final part identifies three areas of concern for young students' learning, goal, setting, and managing stress. It also provides for the more practical application of the concepts discussed in the course and enables them the hands-on experience of developing self-help plans for self-regulated learning, goal setting, and self-care.	

Course Code	SS022
Course Title	Readings in Philippine History
Course Description: The course aims to expose the students to different facets of Philippine history through the lens of eyewitnesses. It is viewed from the primary sources in different periods, analysis, and interpretation using written (qualitative and quantitative), oral, visual, audio-visual, and digital covering various aspects of Philippine life (political, economic, social, cultural). In addition, it will examine the condition of Mindanao through the struggles experienced in the island. And it will foster the appreciation and promotion of the students of local history through digital platforms.	

Course Code	HUM021
Course Title	Logic and Critical Thinking
Course Description: This course discusses the art and science of correct thinking by exposing the students to the different methods and concept of logical reasoning. It aims to cultivate and develop critical thinking and communication skills among the students as a necessity for intellectual advancement and professional development.	

Course Code	HUM039
Course Title	Ethics
Course Description: Ethics deals with the principles of ethical behaviour in modern society at the level of the person, society, and in interactions with the environment and other shared resources. 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 behaviour in modern society at the level of individual, society, and interaction with the environment.	

Course Code	SS036
Course Title	Science Technology and Society

Course Description:	
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.	

Course Code	SS023
Course Title	The Contemporary World
Course Description:	
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 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.	

Course Code	MATH035
Course Title	Mathematics in the Modern World
Course Description:	
This course deals with the nature of mathematics, appreciation of its practical, intellectual, and aesthetic dimensions and applications of mathematical tools in daily life. It begins with an introduction to the nature of mathematics as an exploration of patters (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 patters of nature, for example, and a rich language (and a 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 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.	

CORE COURSES

Course Code	PSY 101
Course Title	Introduction To Psychology
Pre-Requisite	NONE
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: This introductory course covers the broad conceptual and empirical foundations of psychology. This course deals with the fundamental concepts and principles in studying human behavior and its underlying facets, which will assist in learning other specialized courses in psychology. It further examines the basic psychological concepts, theories, and/or principles, such as cognition, emotion, sensation, perception, motivation, memory, learning, and others. At the end of the course, the students will have a comprehensive overview of the biopsychosocial model in the scientific study of human behavior.	

Course Code	PSY 102 / PSY 102L
Course Title	Psychological Statistics
Pre-Requisite	NONE
Co-Requisite	NONE
Credit units	3 (Lec), 2 (Lab)
Class Schedule	
Course Description: This course presents the fundamentals of psychological statistics and its utility for describing, analyzing, and interpreting psychological data. It focuses on the different statistical tools which can be utilized in psychological testing, psychological assessments, and research.	

Course Code	PSY110
Course Title	Developmental Psychology
Pre-Requisite	PSY101
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: This course is specialized in the study of human development throughout the life span in the different areas of physical, social, cognitive, emotional, and moral functioning. The course will also discuss the major developmental theories and studies that will expand one’s understanding of the growth and changes of the human person. Furthermore, the system perspective and the interactive dimensions of human development in this course are focused on the Filipino culture.	

Course Code	PSY 111
Course Title	Theories of Personality 1
Pre-Requisite	PSY101
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: This course discusses the major theories of personality. The course is designed to understand and examine theoretical and contextual tenets involved in the scientific study of personality formation and dynamics. The course provides a basic orientation on the different theories and concepts of personality from different theorists in the field of psychology. At the end of the course, students are expected to be able to understand and contextualize the theoretical paradigms of personality theories in human behavior, given their strengths and limitations.	

Course Code	PSY 121
Course Title	Theories of Personality 2
Pre-Requisite	PSY 111, PSY 101
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: This course will cover the understanding and application of the major theories of in the field of Psychology. It serves as the continuation of the Theories of Personality 1 course which focuses on behavioral, cognitive and trait theories in personality formation. The course provides an advanced orientation on the other theories and concepts of personality from different behavioral, cognitive and trait theorists in the field of Psychology. Moreover, students are expected to be able to evaluate and apply the theoretical paradigms of personality theories in human behavior. At the end of the course, students are expected to be able to rationalize human behavior and personality formation in the lens of these personality theories.	

Course Code	PSY 112
Course Title	Cognitive Psychology
Pre-Requisite	PSY 101
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: This course is specialized in the understanding of different cognitive models that relates to cognitive development of the human person. It further analyzes the functions and processes involved in information processing, learning, metacognition, language use, memory, perception, problem solving, creativity, and reasoning. The course also thoroughly investigates the biopsychosocial factors that affect a person’s cognitive abilities including sensation, perception, attention, memory and representation, language, and thinking across life span and environment.	

Course Code	PSY 113
Course Title	Culture and Psychology
Pre-Requisite	PSY 101
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: The course fundamentally focuses on the impact of culture on human behavior. It strives to discuss the origins and highlights of Filipino psychology or “Sikolohiyang Pilipino.” The course examines social situations in the Philippine context that reflect the similarities and differences of people’s values, beliefs, and personalities. It critically evaluates findings on the formation of values, personality, emotional expressions, communication, mental health and well-being, family and relationships, leadership, behavior in groups and the social environment of Asian cultures in contrast to European and Western cultures.	

Course Code	PSY 114 / PSY 114 L
Course Title	Experimental Psychology
Pre-Requisite	PSY 101; PSY 102/ PSY 102L
Co-Requisite	NONE
Credit units	3 (Lec), 2 (Lab)
Class Schedule	
Course Description: This course is an introduction to the experimental methods of conducting psychological research in a controlled environment. It provides the students the necessary knowledge and skills in designing and conducting experimental research like between and within-subjects experiments. The course will direct students in the collection and analysis of research data as well as writing the final research report. Moreover, the course is organized to train students in the application of experimental psychology in the field of research.	

Course Code	PSY 115
Course Title	Physiological Psychology
Pre-Requisite	PSY 101
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: This course specializes in the neural mechanisms of perception and behavior and the physiological development of the brain in the human person. It covers various topics in the field of neuroscience like sensory and motor systems, parts and functions of the nervous system, the biopsychology of motivation, cognition, and emotion. The course further discusses the effects of different psychoactive drugs on the brain and the risks of using illicit drugs.	

Course Code	PSY 116
Course Title	Social Psychology
Pre-Requisite	PSY 114 / PSY 114L
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: This course focus on the scientific study of human social behavior, which relates to how and why people think, feel, behave, and relate to one another in different social situations. The course also strives to understand the major theories, concepts, and empirical findings in the field of social psychology. Furthermore, it critically examines different social phenomena constructed within a social context and influenced by actual or imagined interactions with other people.	

Course Code	PSY 117 / PSY 117L
Course Title	Psychological Assessment
Pre-Requisite	PSY 111
Co-Requisite	NONE
Credit units	3 (Lec), 2 (Lab)
Class Schedule	
Course Description: This course covers the principles, methods, and uses of different psychometric tools in psychological testing and assessment. It examines the concepts, types, classifications, purposes, and processes involved in conducting psychological assessments such as item analysis, scoring, reliability, validity, test construction, etc. The course orients students on administering, scoring, and interpreting objective cognitive and affective testing tools used in various applied fields of psychology. Moreover, the course strives to recognize and apply different ethical considerations in the practice of psychological testing and assessment.	

Course Code	PSY 118
Course Title	Abnormal Psychology
Pre-Requisite	PSY 111
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: This course focuses on the study of abnormal patterns of human behavior along with its diagnostic features, classifications, premorbidity, and risk factors. The course also introduces the nature, causes, and possible interventions of different psychological disorders in a human person. At the end of the course, the students are expected to be skilled with the nomenclature, classifications, and interventions for the different mental disorders. The students are also expected to be well-trained in creating a psychological report.	

Course Code	PSY 119
Course Title	Industrial / Organizational Psychology
Pre-Requisite	PSY 101, PSY 111
Co-Requisite	NONE
Credit units	3

Class Schedule	
Course Description: This course provides an overview of psychological concepts, theories, and research findings for effective human interactions and performance to the industrial and organizational workplace. The coverage for the course includes organizational structures and systems, organizational communication processes, leadership, motivation, conflict resolution, problem-solving and decision making, team dynamics, efforts in human resource developments and management, and organizational change and development. At the end of the course, the students are expected to be efficient in people and team management.	

Course Code	PSY 120 / PSY 120L
Course Title	Field Methods In Psychology
Pre-Requisite	PSY 114
Co-Requisite	NONE
Credit units	3 (Lec), 2 (Lab)
Class Schedule	
Course Description: This course covers both quantitative and qualitative field methods. It includes the orientation of the purpose, use, and elements of every research design as a preparatory course in Research. The course also evaluates and examines the procedure of administering surveys, interviews, and focus group discussions with its ethical considerations. Furthermore, students will be acquainted with the different methods available to conduct a scientific inquiry in the field of Psychology. At the end of the course, the students are expected to learn useful research writing skills and the ethical considerations related to research.	

Course Code	PSY 200 -1 / PSY 200 – 2 / PSY 200 – 3
Course Title	Research in Psychology
Pre-Requisite	PSY 120 / PSY 120L
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: This course aims to prepare students to perform formal psychological research. The students will learn the entire research process from choosing a relevant problem/topic, reviewing the literature, postulating a conceptual framework, up to planning for methodology, data analysis, interpretation of the results up to discussion and implications. At the end of the course, the students are expected to create their original research output in groups which will be executed through research proposal and final defense. They are also expected to be knowledgeable of the ethics inclined in research like informed consent, participants' rights, and plagiarism	

Course Code	PSY 131
Course Title	Introduction to Counseling
Pre-Requisite	PSY 118
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: This course aims to provide students with a basic understanding of the nature, scope, and skills used in counseling and other psychological interventions. The course also examines the different theories and various cognitive, affective, and behavioral approaches in counseling and psychotherapy. Moreover, the course also discusses the roles, functions, and ethical considerations involved in the practice of counseling.	

Course Code	PSY 132
Course Title	Introduction to Clinical Psychology
Pre-Requisite	PSY 118
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: The course aims to provide students with a basic understanding of the nature, scope, and techniques used in the field of clinical psychology, including approaches in the assessment and interventions in various	

psychological disorders. The course also discusses the roles, functions, and ethical considerations involved in the practice of the profession. Moreover, this course will orient students to the basic knowledge and competencies required in the clinical profession.

Course Code	PSY 133
Course Title	Disaster And Mental Health Psychology
Pre-Requisite	PSY 118
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: This course provides an overview of the impact of disasters on individuals, families, and communities, such as natural calamities and trauma-related incidences. Students will be introduced to various psychosocial support trainings and seminars like disaster preparedness, crisis interventions, and psychological first aid. Furthermore, the course will provide students a deeper understanding of the impact of disasters on mental health and psychologically prepare them for future crises.	

Course Code	PSY 134
Course Title	Psychology for Exceptional Children
Pre-Requisite	PSY 118
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: This course is designed to understand and evaluate children who are set apart from others due to either an advantage or disadvantage in terms of their physical, mental and emotional conditions. The course further discusses the etiological factors, characteristics of each condition, assessment procedures, and intervention approaches applicable for children’s mental and psychosocial development. Furthermore, students will be oriented on the rights and privileges of Filipinos with special needs shall also be discussed as embodied in the Persons with Disabilities Act of the Philippines (RA 9442).	

Course Code	PSY 135
Course Title	Group Dynamics
Pre-Requisite	PSY 119
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: Using experiential/inductive methods, the course provides students the opportunity to understand the dynamics of group processes and functioning such as communication, problem-solving, decision-making, leadership/membership, collaboration/competition, and self-awareness, particularly in the Philippine organization setting.	

Course Code	PSY 136
Course Title	Current Issues in Psychology
Pre-Requisite	PSY 119
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: This course is designed to provide students with insights into the nature of psychology as a profession. Students gain will insight into the challenges associated with providing services to complex populations. Topics may vary from one year to the next but will typically include material relating to: psychology in health and medical contexts such as interviewing and interprofessional practice.	

Course Code	PSY 137
Course Title	Positive Psychology

Pre-Requisite	PSY 111
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: This course focuses on helping students to understand and apply key psychological and social processes that create the conditions for leaders and teams to thrive in dynamic, collaborative environments. Students will become familiar with how foundational research insights are relevant to their lives and relationships through an “action learning” format that integrates theory with structured opportunities for self-reflection and individual- and group-level practice.	

Course Code	PSY 199R
Course Title	Company Immersion / OJT
Pre-Requisite	PSY 200 – 3
Co-Requisite	NONE
Credit units	3
Class Schedule	
Course Description: This course will immerse and expose students to the different workplace settings in line in the field of psychology with the intention of practicing their knowledge, skills, abilities and interests in a clinical setting, community setting, academe/school setting, industrial setting, government, non-governmental organizations, or hospitals. Students are required to complete a total of 150 hours of practicum work to one or more recommended workplaces.	

CORE COURSES

Course Code	PH101/L
Course Title	PHARMACEUTICAL INORGANIC CHEMISTRY WITH QUALITATIVE ANALYSIS Lec /Lab
Pre-Requisite	NONE
Co-Requisite	NONE
Credit units	2 Units -LEC; 1 Unit -LAB
Class Schedule	
Course Description: This course covers pharmaceutical inorganic chemistry, an area of study concerned with essential and non-essential elements, metal ions, metal complexes and radiopharmaceuticals with their clinical applications. The laboratory course includes the principles and concepts for qualitative analysis of ions &inorganic compounds and the preparation, uses and confirmatory tests involved in the official USP/NF inorganic compounds.	

Course Code	PH102
Course Title	PERSPECTIVES IN PHARMACY
Pre-Requisite	NONE
Co-Requisite	NONE
Credit units	2 Units -LEC
Class Schedule	
Course Description: This course orients the students with the science and practice of the Pharmacy profession. It is focused on the history, regulations, and practice of Pharmacy and the roles of Pharmacists in handling medications and in health care.	

Course Code	PHP104P
Course Title	PHARMACEUTICAL BOTANY WITH TAXONOMY LEC /LAB
Pre-Requisite	NONE
Co-Requisite	NONE
Credit units	2 Units – LEC; 1 Unit - LAB
Class Schedule	
Course Description: This course is an introduction to the scientific study of plants and their value as an integral part of ecosystem and the pharmaceutical field. It focuses on the understanding of plant morphology, anatomy, physiology, taxonomy, and distinct features of plant species of pharmaceutical importance.	

Course Code	PHP105P
Course Title	PHARMACEUTICAL CALCULATIONS AND TECHNIQUES LEC /LAB
Pre-Requisite	MATH035-1
Co-Requisite	NONE
Credit units	2 Units – LEC; 1 Unit - LAB
Class Schedule	
Course Description:	

The course deals with the theories and principles in pharmacy calculation as applied in traditional and specialized practice settings and within operational and research areas in pharmacy practice.

This course focuses on the fundamentals of pharmaceutical calculations and techniques that includes system of measurements, expression of concentrations, calculation of doses, density, specific gravity and specific volume applied in the practice of pharmacy

Course Code	PH107
Course Title	PHARMACEUTICAL ORGANIC CHEMISTRY Lec/Lab
Pre-Requisite	PH102
Co-Requisite	NONE
Credit units	2 Units – Lec; 1 Unit - Lab
Class Schedule	

Course Description:

This course is intended to provide understanding of the principles and concepts of organic chemistry. It also includes classical and modern semi-micro laboratory techniques in handling, preparing, separating, purifying, identifying and characterizing organic compounds

The course covers the chemistry of carbon-containing compounds, their structure, nomenclature, physicochemical properties, and application to pharmacy.

Course Code	PH112
Course Title	QUANTITATIVE PHARMACEUTICAL CHEMISTRY Lec/Lab
Pre-Requisite	PH102
Co-Requisite	NONE
Credit units	2 Units – Lec; 1 Unit - Lab
Class Schedule	

Course Description:

This course is designed to apply the principles of pharmaceutical analysis in the evaluation of drugs and drug products.

The course covers methods in utilizing titrimetric analyses as required by pharmacopeial standards.

Course Code	PH110
Course Title	INTRODUCTION TO PHARMACY ADMINISTRATION, MANAGEMENT AND LEADERSHIP
Pre-Requisite	NONE
Co-Requisite	NONE
Credit units	2 Units - Lec
Class Schedule	

Course Description:

This course is designed to teach the concepts, principles and fundamentals of Pharmaceutical Management and Leadership.

The course covers basic functions of Planning, Organizing, Staffing, Directing and Controlling as they relate to fiscal, personnel and merchandising management. The course is also intended to provide the students with the tools and skills necessary to effectively manage themselves and to participate fully in their organizations in a changing world environment.

Course Code	PH113
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Course Title	PHARMACEUTICAL DOSAGE FORMS, DRUG DELIVERY SYSTEMS AND MEDICAL DEVICES Lec/Lab
Pre-Requisite	PH105
Co-Requisite	PH113 LEC
Credit units	2 Units – LEC; 2 Units - LAB
Class Schedule	
Course Description:	
This course deals with the basic principles and technologies applied in the preparation of pharmaceutical dosage forms and drug delivery systems; as well as the utilization of medical devices for optimum drug delivery.	
This course covers the description, classification, uses, administration, preparation/compounding, packaging and labeling, and storage/handling of pharmaceutical dosage forms and drug delivery systems. It also includes proper handling/use of medical devices as well as the new technologies (advances in technology) on administering drug compounds to enhance therapeutic efficacy and safety.	

Course Code	BHS104
Course Title	HUMAN PHYSIOLOGY AND PATHOLOGY Lec/Lab
Pre-Requisite	NONE
Co-Requisite	NONE
Credit units	3 Units – LEC; 1 Unit - LAB
Class Schedule	
Course Description:	
This course is designed to introduce the fundamental concepts of body functions both in normal and diseased states to maintain homeostasis.	
This course will give emphasis on understanding the relationship among different levels of body functions from molecular to systemic level in normal conditions and diseased states.	

Course Code	PH116
Course Title	PHARMACEUTICAL BIOCHEMISTRY Lec/Lab
Pre-Requisite	PH107, BHS104
Co-Requisite	NONE
Credit units	3 Units – LEC; 1 Unit - LAB
Class Schedule	
Course Description:	
This course deals with concepts and principles of chemical constituents of the living cells and their structures, functions and the processes that the biomolecules undergo. It also covers the application of the said concepts to pharmacy and other medical fields.	
This course covers the identification and classification of biomolecules including their structures, functions, metabolic reactions and clinical significance.	

Course Code	PH123
Course Title	PHYSICAL PHARMACY Lec/Lab
Pre-Requisite	PH113
Co-Requisite	NONE
Credit units	2 Units – LEC; 1 Unit - LAB
Class Schedule	
Course Description:	

This course deals with the physicochemical principles underlying dosage forms and drug delivery systems' design and manufacture; and drugs' bioavailability. It focuses on how these principles affect the dosage form design, manufacture and evaluation, and stability of pharmaceutical products; and biologic response.

Course Code	PH127
Course Title	PHARMACEUTICAL AND MEDICINAL ORGANIC CHEMISTRY
Pre-Requisite	PH107
Co-Requisite	NONE
Credit units	2 Units – LEC; 1 Unit - LAB
Class Schedule	
Course Description:	
This course is designed to provide basic knowledge of medicinal chemistry and concepts of drug design. This course covers the study of Structure Activity Relationship of the different drug classes and its relationship to biological activity and clinical applications	

Course Code	PH109
Course Title	INTRODUCTION TO HEALTHCARE SYSTEM
Pre-Requisite	NONE
Co-Requisite	NONE
Credit units	1 Unit - LEC
Class Schedule	
Course Description:	
This course is designed to introduce the basics of Health Care System and its importance in delivering health care services based on health needs of target population. This course covers fundamental concepts of Health Care System and its goal towards universal health care including basic principles of Primary Health Care, components of health care delivery system, health care services provider, resources of health care, accreditation bodies, and the status of Philippine Health Care System which includes Health sectors, programs and initiatives established by the government.	

Course Code	PH119
Course Title	PHARMACEUTICAL MICROBIOLOGY AND PARASITOLOGY Lec/Lab
Pre-Requisite	BHS104, PH116
Co-Requisite	NONE
Credit units	3 Units – Lecture; 1 Unit - LAB
Class Schedule	
Course Description:	
This course deals with the study of medically important microorganisms and parasites. The introductory part gives an overview of the brief history and recent developments in Microbiology that are important in pharmaceutical industry. Basic concepts on microbial cell structure, microbial growth and control, principle of disease and epidemiology and basic immunology were also introduced. Characteristics other microbes such as fungi, viruses, prions, helminths and protozoans are also covered in this course. Discussions of the diseases by body system are given at the latter part of the course with emphasis in chemotherapy and basic microbial methods for the etiologic agents' potential diagnosis. This course focuses on the study of microorganisms and parasites that are medically important.	

Course Code	PH115
Course Title	DISPENSING 1 Lec/Lab
Pre-Requisite	PH105
Co-Requisite	NONE
Credit units	1 Unit – LEC; 1 Unit - LAB
Class Schedule	
Course Description: This course is designed to introduce the concepts of basic dispensing and techniques to pharmacy students that govern this important facet of the professional practice of pharmacy. This course covers the introduction to dispensing; receiving prescriptions; prescription validation (initial professional and technical check); labeling; assembling prescriptions and documentation.	

Course Code	PH125
Course Title	PHARMACY INFORMATICS Lec/Lab
Pre-Requisite	CS10-8L, DS100L
Co-Requisite	NONE
Credit units	1 Unit- LEC; 1 Unit - LAB
Class Schedule	
Course Description: This course covers the various methods of gathering and using drug and health-related information from various electronic and non-electronic sources using different websites, search engines, and mobile applications. It focuses on the use of information technology and drug information to optimize medication use.	

Course Code	PH190
Course Title	PHARMACY RESEARCH METHODS AND STATISTICS
Pre-Requisite	ENGL024-1
Co-Requisite	NONE
Credit units	2 Units - LEC
Class Schedule	
Course Description: This course is designed to develop the students with the skills needed for the systematic conduct of research and to deepen the understanding of basic statistics in application to pharmacy and pharmaceutical sciences. This course covers the fundamental concepts of research methods utilized in pharmaceutical researches and use of appropriate statistical tools for data analysis.	

Course Code	PH131
Course Title	INSTRUMENTAL ANALYSIS
Pre-Requisite	PH112
Co-Requisite	NONE
Credit units	2 Units LEC
Class Schedule	
Course Description: This course is designed to apply the principles of pharmaceutical analysis in the evaluation of drugs and drug products. The course covers methods in utilizing instrumentation analyses as required by pharmacopeial standards.	

Course Code	PH133
Course Title	PHARMACOLOGY 1

Pre-Requisite	PH121P, PH119
Co-Requisite	NONE
Credit units	3 Units - LEC
Class Schedule	
Course Description:	
<p>This course deals with the basic principles and concepts of pharmacology which includes the review of pathophysiology and the basic pharmacokinetic and pharmacodynamics properties of drugs acting on the central and autonomic nervous systems (<i>including drugs of abuse</i>), respiratory and gastrointestinal systems.</p> <p>This course focuses on the basic concepts of pharmacokinetics and pharmacodynamics of drugs, pathophysiology of diseases and disorders and the mechanisms of action of drugs affecting the central and autonomic nervous systems (<i>including drugs of abuse</i>), respiratory and gastrointestinal systems; their established clinical applications in the management of relevant diseases, and their toxic effects.</p>	

Course Code	PH137
Course Title	DESIGNER DRUGS, VACCINES AND IMMUNOTHERAPIES
Pre-Requisite	BHS104
Co-Requisite	
Credit units	2 Units - LEC
Class Schedule	
Course Description:	
<p>This course provides the knowledge, understanding and practical experience to forge a rewarding career in research and development in the pharmaceutical, bioscience or healthcare sectors. Develop an in-depth understanding of disease processes and molecular targets and an ability to apply this knowledge and theory to key aspects of drug design and biomedical science in designer drugs, vaccines and immunotherapies..</p> <p>Equipped with the ability to follow developments in the field, to apply them in work and make innovative contributions to the industry that will benefit others.</p>	

Course Code	PH118
Course Title	BIOPHARMACEUTICS AND PHARMACOKINETICS
Pre-Requisite	PH123
Co-Requisite	NONE
Credit units	3 Units - LEC
Class Schedule	
Course Description:	
<p>This course deals with the study of the intrinsic, formulation, physiologic, and pathologic factor affecting bioavailability of drugs from drug products. It focuses on drug absorption, distribution, metabolism, excretion and how these processes are modified by the different factors affecting the presence and action of the drug in the biologic system.</p>	

Course Code	PH129
Course Title	PHARMACOGNOSY AND PLANT CHEMISTRY Lec/Lab
Pre-Requisite	PH104
Co-Requisite	NONE
Credit units	2 Units – LEC; 1 Unit - LAB
Class Schedule	

Course Description:	
The course deals with the study of the classification, physical and chemical properties, and pharmacological and pharmaceutical uses of natural drugs (Including Philippine medicinal plants). It also covers the biosynthesis, extraction, isolation, purification and identification of drug constituents. This course will give more emphasis on the biosynthesis of the active constituents found in medicinal plants and animals and their corresponding uses.	

Course Code	PH134
Course Title	PHARMACOLOGY 2
Pre-Requisite	PH133
Co-Requisite	NONE
Credit units	3 uNITS - LEC
Class Schedule	
Course Description:	
This course deals with the basic pharmacokinetic, pharmacodynamic, and pharmacotherapeutic principles about drugs acting in the cardiovascular, renal, hematologic, and endocrine systems, and agents that target invaders and neoplasms. It also deals with basic concepts and skills on using animal models in testing for pharmacologic activity of a substance.	
This course deals with the ADME and molecular mechanisms of action of drugs that affect the cardiovascular, renal, hematologic and endocrine systems, microorganisms, parasites and neoplasms; their established clinical applications in the management of relevant diseases, and their toxic effects. It also deals with the basic concepts and skills on proper handling and correct methods of administering drugs to animal models in the determination of pharmacologic activity of a substance.	

Course Code	PH136
Course Title	DISPENSING 2 Lec/Lab
Pre-Requisite	PH115P,PH113
Co-Requisite	NONE
Credit units	2 Units – LEC; 1 Unit - LAB
Class Schedule	
Course Description:	
This course deals with the application of concepts of dispensing, dispensing techniques and the ethical policies that govern this important facet of the professional practice of pharmacy. It deals with the different prescription order assessment, drug use review, design tailored- fit counselling techniques to ensure medication safety.	
This course is designed to develop students skills in dispensing to ensure safety regarding prescriptions, dosage forms, medication reviews in relation to diverse kinds of patients in community and hospital settings.	
This course covers the assessment of different kinds of prescription orders to provide quality, safe, and effective medications.	

Course Code	PH153
Course Title	SOCIAL AND ADMINISTRATIVE PHARMACY
Pre-Requisite	PH110
Co-Requisite	NONE
Credit units	1 Unit LEC
Class Schedule	
Course Description:	
This course is designed to cover the cognitive and psychological aspect of pharmacy practice as it applies in sociology and its administration	

This subject focuses on the administration of healthcare followed by the social processes involved including psychological theories and models as it relates to pharmacy. This subject also tackles selected social aspects in the pharmacy profession like advocacy, gender, culture and sexuality.

Course Code	PH155
Course Title	LEGAL PHARMACY AND ETHICS
Pre-Requisite	PH125P; HUM039-1
Co-Requisite	NONE
Credit units	2 Units LEC
Class Schedule	
Course Description:	
This course is designed to cover the principles of law and ethics in pharmacy.	
It examines the national and local laws that impact the practice of pharmacy, emphasizing legal and ethical principles applied by pharmacists in decision-making. It also focuses on theoretical and practical knowledge regarding the regulation of food, drugs, medical devices and cosmetics.	

Course Code	PH200-1
Course Title	PHARMACY RESEARCH AND THESIS WRITING 1
Pre-Requisite	PH190
Co-Requisite	2 Units LEC
Credit units	
Class Schedule	
Course Description:	
This course is designed to augment the course Pharmacy Methods of Research (with) statistics with the end goal of fully developing the competencies needed by the students in the systematic conduct of research.	
This course covers the writing of a scientific paper/ thesis; final oral defense to a chosen panel of experts; dissemination of the results to an appropriate venue, for example, a research congress /forum or during community extension activities.	

Course Code	PH135
Course Title	PHARMACEUTICAL MANUFACTURING Lec/Lab
Pre-Requisite	PH123
Co-Requisite	NONE
Credit units	2 Units – LEC; 2 Units - LAB
Class Schedule	
Course Description:	
This course is designed to introduce pharmacy students to the concepts and theories of pharmaceutical manufacturing and CGMP to produce quality, safe and effective pharmaceutical products.	
This course covers concepts of pharmaceutical quality system, transfer of technology and commercial manufacturing.	

Course Code	PH140
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Course Title	DRUG DISCOVERY, DESIGN AND DEVELOPMENT
Pre-Requisite	PH133, PH125P
Co-Requisite	NONE
Credit units	2 Units - LEC
Class Schedule	
Course Description:	
This course is designed to discuss the fundamental concepts, stages, and some important advancements in the field of drug discovery and development.	
This course covers the process of drug discovery and development, from screening, target identification to final drug registration and marketing. Safety evaluation, clinical trials, ethical considerations and the essentials of patent law will also be discussed.	

Course Code	PH142
Course Title	CLINICAL PHARMACY AND PHARMACOTHERAPEUTICS 1
Pre-Requisite	PH134
Co-Requisite	NONE
Credit units	3 Units - LEC
Class Schedule	
Course Description:	
This course is designed to provide the student with an understanding of concepts of evidence-based medicine using variety of information sources during evaluation and comparison of various approaches to address health care issues for basic self-care, and the pathophysiology and therapeutic strategies for management of the diseases in the autonomic system, neurologic nervous system and psychiatric nervous system.	
This course covers disease-orientation, therapeutic goal setting, pharmacotherapy intervention documentation, and pharmacotherapy care planning. This course will give more emphasis on the disease-orientation, therapeutic goal setting, pharmacotherapy intervention documentation, and pharmacotherapy care planning.	

Course Code	PH144
Course Title	HOSPITAL PHARMACY
Pre-Requisite	PH136
Co-Requisite	NONE
Credit units	2 Units - LEC
Class Schedule	
Course Description:	
A course which explores basic hospital theory, techniques and administrative procedures and acquaints the student with pharmacy as a hospital department and a patient service unit. Topics covered include: drug distribution systems, extemporaneous and bulk compounding methods, pharmacy policy and procedural manuals and other contemporary pharmacy issues.	

Course Code	PH148
Course Title	PUBLIC HEALTH PHARMACY AND PHARMACOEPIDEMIOLOGY
Pre-Requisite	PH119
Co-Requisite	NONE
Credit units	2 Units - LEC
Class Schedule	

Course Description:	
This course deals with the integration of pharmacy practice in prevention of disease, promotion of health and prolongation of life in public health settings.	
This course primarily focuses on factors affecting health, indicators of general health in the community, past and current issues (drug and non-drug related, local and international) pertinent to Public Health and laws and policies, interventions and programs that address these issues, and determination of roles of Pharmacists in Public Health, and application of these concepts.	

Course Code	PH 200-2
Course Title	PHARMACY RESEARCH AND THESIS WRITING 2 Lec/Lab
Pre-Requisite	PH200-1
Co-Requisite	NONE
Credit units	1 Unit – LEC; 1 Unit - LAB
Class Schedule	
Course Description:	
This course is designed to augment the course Pharmacy Methods of Research (with) statistics with the end goal of fully developing the competencies needed by the students in the systematic conduct of research.	
This course covers the writing of a scientific paper/ thesis; final oral defense to a chosen panel of experts; dissemination of the results to an appropriate venue, for example, a research congress /forum or during community extension activities.	

Course Code	PH143
Course Title	CLINICAL PHARMACY AND PHARMACOTHERAPEUTICS 2
Pre-Requisite	PH142
Co-Requisite	NONE
Credit units	3 Units - LEC
Class Schedule	
Course Description:	
This course deals with the expanded responsibilities of pharmacists in the pharmaceutical business industry; the dynamics of marketing in the highly volatile pharmaceutical market and the diversity of major marketing decisions on products, price, promotions and place. It also deals with the identification and application of the elements and processes of entrepreneurship.	
The course offers students the knowledge and theories of marketing and entrepreneurship and its application to the various pharmacy practices.	
This course will give more emphasis on the functions of marketing management process, decisions and strategies that can be applied to the different pharmacy practices and the necessary knowledge and skills needed to be successful entrepreneurs. Students are expected to engage in reflective and critical analysis of actual cases and scenarios and affecting pharmaceutical marketing and entrepreneurship.	

Course Code	PH145
Course Title	PHARMACEUTICAL TOXICOLOGY Lec/Lab
Pre-Requisite	PH134
Co-Requisite	NONE
Credit units	2 Units – LEC; 1 Unit - LAB
Class Schedule	

Course Description:	
This course will provide a systematic evaluation of the many classes of toxicological agents with an emphasis on the molecular mechanisms underlying their toxicity.	
This course will demonstrate physiologically based pharmacokinetic modeling and risk assessment methods that are used to solve present day problems in toxicology. Students are responsible for readings on assigned topics related to the course, which complements the material presented in class.	

Course Code	PH150
Course Title	COSMETIC PRODUCT DEVELOPMENT Lec/Lab
Pre-Requisite	PH135
Co-Requisite	NONE
Credit units	1 Unit – LEC; 1 Unit - LAB
Class Schedule	
Course Description:	
This course is designed to apply the principles, methods and technology involved in the formulation of various cosmetic products.	
The course covers product development and notification.	

Course Code	PH151
Course Title	HEALTH TECHNOLOGY ASSESSMENT AND ECONOMICS Lec/Lab
Pre-Requisite	PH123
Co-Requisite	NONE
Credit units	1 Unit – LEC; 1 Unit- LAB
Class Schedule	
Course Description:	
This course is designed to introduce health technology assessment concepts and applications, economic evaluation of pharmaceutical products and services to ensure efficient use of resources.	

Course Code	PH149
Course Title	PHARMACEUTICAL MARKETING AND ENTREPRENEURSHIP
Pre-Requisite	ENT078
Co-Requisite	NONE
Credit units	2 Units - LEC
Class Schedule	
Course Description:	
This course deals with the expanded responsibilities of pharmacists in the pharmaceutical business industry; the dynamics of marketing in the highly volatile pharmaceutical market and the diversity of major marketing decisions on products, price, promotions and place. It also deals with the identification and application of the elements and processes of entrepreneurship.	
The course offers students the knowledge and theories of marketing and entrepreneurship and its application to the various pharmacy practices.	
This course will give more emphasis on the functions of marketing management process, decisions and strategies that can be applied to the different pharmacy practices and the necessary knowledge and skills needed to be successful entrepreneurs. Students are expected to engage in reflective and critical analysis of actual cases and scenarios and affecting pharmaceutical marketing and entrepreneurship.	

Course Code	PH200-3
Course Title	PHARMACY RESEARCH AND THESIS WRITING 3 Lec/Lab
Pre-Requisite	PH200-2
Co-Requisite	NONE
Credit units	1 Unit – LEC; 1 Unit - LAB
Class Schedule	
Course Description: This course is designed to augment the course Pharmacy Methods of Research (with) statistics with the end goal of fully developing the competencies needed by the students in the systematic conduct of research. This course covers the writing of a scientific paper/ thesis; final oral defense to a chosen panel of experts; dissemination of the results to an appropriate venue, for example, a research congress /forum or during community extension activities.	

GENERAL EDUCATION COURSES

Course Code	ENG041
Course Title	Purposive Communication
Course Description: Purposive Communication is about writing, speaking, and presenting to different audiences and for various purposes. 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 academic endeavours, 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.	

Course Code	HUM034
Course Title	Art Appreciation
Course Description: Art Appreciation is a three-unit course that develops the students’ ability to appreciate, analyze, and critique works of art. Through interdisciplinary and multimodal approaches, this course equips students with a broad, practical, historical, philosophical, and social relevance of 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 that is Mindanao-centric.	

Course Code	SS021
Course Title	Understanding The Self
Course Description: The course deals with the nature of identity, as well as the factors and forces that affect the development and maintenance of personal identity. The 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. The course is divided into three parts. The first part seeks to understand the construct of the self from various disciplinal perspectives, philosophy, sociology, anthropology, and psychology -as well as the more	

<p>traditional division between the East and West – each seeking to provide answers to the difficult but essential questions of “What is the Self?” and raising among others, the question, “Is there even such a construct as the self?” The second part explores some of the various aspects that make up the self, such as the biological and material up to and including the more recent Digital Self. The third and final part identifies three areas of concern for young students’ learning, goal, setting, and managing stress. It also provides for the more practical application of the concepts discussed in the course and enables them the hands-on experience of developing self-help plans for self-regulated learning, goal setting, and self-care.</p>

Course Code	SS022
Course Title	Readings in Philippine History
Course Description: The course aims to expose the students to different facets of Philippine history through the lens of eyewitnesses. It is viewed from the primary sources in different periods, analysis, and interpretation using written (qualitative and quantitative), oral, visual, audio-visual, and digital covering various aspects of Philippine life (political, economic, social, cultural). In addition, it will examine the condition of Mindanao through the struggles experienced in the island. And it will foster the appreciation and promotion of the students of local history through digital platforms.	

Course Code	HUM021
Course Title	Logic and Critical Thinking
Course Description: This course discusses the art and science of correct thinking by exposing the students to the different methods and concept of logical reasoning. It aims to cultivate and develop critical thinking and communication skills among the students as a necessity for intellectual advancement and professional development.	

Course Code	HUM039
Course Title	Ethics
Course Description: Ethics deals with the principles of ethical behaviour in modern society at the level of the person, society, and in interactions with the environment and other shared resources. 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 behaviour in modern society at the level of individual, society, and interaction with the environment.	

Course Code	SS036
Course Title	Science Technology and Society
Course Description: 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.	

Course Code	SS023
Course Title	The Contemporary World
Course Description: 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 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.

Course Code	MATH035
Course Title	Mathematics in the Modern World
Course Description:	
This course deals with the nature of mathematics, appreciation of its practical, intellectual, and aesthetic dimensions and applications of mathematical tools in daily life. It 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 (and a 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 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.	

CORE COURSES

Course Code	
Course Title	
Pre-Requisite	
Co-Requisite	
Credit units	
Class Schedule	
Course Description:	

Course Code	
Course Title	
Pre-Requisite	
Co-Requisite	
Credit units	
Class Schedule	
Course Description:	

Course Code	
Course Title	
Pre-Requisite	
Co-Requisite	
Credit units	
Class Schedule	
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Course Title	
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Credit units	

Class Schedule	
Course Description:	

Course Code	
Course Title	
Pre-Requisite	
Co-Requisite	
Credit units	
Class Schedule	
Course Description:	

Course Code	
Course Title	
Pre-Requisite	
Co-Requisite	
Credit units	
Class Schedule	
Course Description:	

GENERAL EDUCATION COURSES

Course Code	ENG023
Course Title	RECEPTIVE COMMUNICATIN SKILLS
Course Description:	The course aims to develop competency in using receptive communication skills such as reading, listening, and viewing in discourse analysis in various contexts. It gives emphasis on comprehension skills and aims to give students a repertoire of strategies to enable them to understand various types of information presented in three different ways- from the literal to the creative level. Likewise, it aims to equip the students with advanced receptive skills necessary to their success as college students and future professionals

Course Code	SS021
Course Title	UNDERSTANDING THE SELF
Course Description:	<p>The course deals with the nature of identity, as well as the factors and forces that affect the development and maintenance of personal identity. The 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.</p> <p>The course is divided into three parts. The first part seeks to understand the construct of the self from various disciplinal perspectives, philosophy, sociology, anthropology, and psychology -as well as the more traditional division between the East and West – each seeking to provide answers to the difficult but essential questions of “What is the Self?”and raising among others, the question, “Is there even such a construct as the self?” The second part explores some of the various aspects that make up the self, such as the biological and material up to and including the more recent Digital Self. The third and final part identifies three areas of concern for young students’ learning, goal, setting, and managing stress. It also provides for the more practical application of the concepts discussed in the course and enables them the hands-on experience of developing self-help plans for self-regulated learning, goal setting, and self-care.</p>

Course Code	MATH035
Course Title	MATHEMATICS IN THE MODERN WORLD

Course Description:	
This course deals with the nature of mathematics, appreciation of its practical, intellectual, and aesthetic dimensions and applications of mathematical tools in daily life. It 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 (and a 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 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.	

Course Code	PE001
Course Title	PHYSICAL ACTIVITIES TOWARD HEALTH AND FITNESS 1
Course Description:	
This course reintroduces the fundamental movement patterns that consist of non-locomotor and locomotor skills, which are integrated with core training to meet the demands of functional fitness and physical activity performance. Emphasis will be on exercise regression and progression for the enhancement of fitness and the adaptation of movement competencies to independent physical activity pursuits. In conjunction with fitness and wellness concepts, exercise and healthy eating principles, periodic evaluation of one's fitness and physical activity levels, as well as eating patterns will be conducted to monitor one's progress and achievement of personal fitness and dietary goals	

Course Code	SS022
Course Title	READINGS IN PHILIPPINE HISTORY
Course Description:	

Course Code	VE021
Course Title	LIFE COACHING SERIES 1
Course Description:	
Life Coaching Series 1 introduces the student to the tools, practices, and skills needed for a Malayan to succeed the rigours of Mapua college life. It consists of modules that would help enable students to see what it means to be Malayan and how this new mindset can prepare them for a successful future	

Course Code	ENG024
Course Title	WRITING FOR ACADEMIC STUDIES
Course Description:	
This course intends to develop competency in utilizing expressive or productive communication skills such as writing and speaking in various and advanced contexts. It gives emphasis on organizational skills and aims to give students a repertoire of strategies to engage in discourse through two unique ways- writing and speaking. Likewise, it intends to develop competent writing with integrity on germane topics by focusing on English grammar enhancement, sentence construction, paraphrasing, content organization and development, proofreading, and APA in-text and end-text citation. Moreover, it aims to enhance student's ability to communicate their thoughts fluently both in formal and casual settings. Taking this course will equip the students with advanced productive communication skills necessary to their success as college students and future professionals.	

Course Code	ENG041
Course Title	PURPOSIVE COMMUNICATION
Course Description:	
Purposive Communication is about writing, speaking, and presenting to different audiences and for various purposes. 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 academic endeavours, 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.

Course Code	PE002
Course Title	PHYSICAL ACTIVITIES TOWARD HEALTH AND FITNESS 2
Course Description: This course introduces flexibility exercises for the purpose of body coordination, and improves posture, strength, and balance, in conjunction with fitness and wellness concepts. The learners shall be provided with different flexibility exercises that they would incorporate into their personal fitness program to keep the body in overall better condition. For the learners to meet their fitness goals, physical activity participation and eating patterns shall be monitored and evaluated.	

Course Code	NSTP010
Course Title	NATIONAL SERVICE TRAINING PROGRAM 1
Course Description: 	

Course Code	VE022
Course Title	LIFE COACHING SERIES 2
Course Description: 	

Course Code	CS10-8
Course Title	COMPUTER PROGRAMMING LECTURE
Course Description: 	

Course Code	CS10-8L
Course Title	COMPUTER PROGRAMMING LABORATORY
Course Description: 	

Course Code	HUM039
Course Title	ETHICS
Course Description: Ethics deals with the principles of ethical behaviour in modern society at the level of the person, society, and in interactions with the environment and other shared resources. 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 behaviour in modern society at the level of individual, society, and interaction with the environment.	

Course Code	HUM034
Course Title	ART APPRECIATION
Course Description: 	

Art Appreciation is a three-unit course that develops the students' ability to appreciate, analyze, and critique works of art. Through interdisciplinary and multimodal approaches, this course equips students with a broad, practical, historical, philosophical, and social relevance of 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 that is Mindanao-centric.

Course Code	PE003
Course Title	PHYSICAL ACTIVITIES TOWARD HEALTH AND FITNESS 3
Course Description:	
In this course, students will engage in a Group Exercise for physical fitness development. A structured whole-body workout routine such as Circuit training, HIIT, and Tabata will be introduced with its unique purpose and benefits. It leads students to create their personal workout routines for more engaging physical activity in the achievement of their personal goals. Physical activity participation and eating habits will be regularly monitored to track one's progress	

Course Code	NSTP011-P
Course Title	NATIONAL SERVICE TRAINING PROGRAM 2
Course Description:	

Course Code	VE023
Course Title	LIFE COACHING SERIES 3
Course Description:	
The course aims to expose students to various class discussions and tasks that will hone them to become professional Malaysans observing excellence and relevance during and after their stay in the institution. It stresses the importance of students' ability to adapt to changes around them and the value of lifelong learning in 21st century workplace settings. These include the Do's and Don'ts among professionals, especially in culturally pluralistic spaces such as Mindanao	

Course Code	SS085
Course Title	PHILIPPINE INDIGENOUS COMMUNITIES
Course Description:	
This course aims to educate students about Indigenous groups in the Philippines: their way of life, their role in and contribution to Filipino Society and their undeniably significant contribution to the nation-building. This also intends to teach students about Filipino roots. The more they know about the Indigenous Cultural Communities and Indigenous Peoples, the better protected the ICC/IPs knowledge system and cultural expressions will be. This course highlights the Cultural Communities' development, giving focus to Mindanao cultural societies, towards understanding Filipino Identity in general.	

Course Code	ENT078
Course Title	THE ENTREPRENEURIAL MIND
Course Description:	

Course Code	BHS160
Course Title	COMPUTER APPLICATIONS IN CHEMICAL/BIOLOGICAL ENGINEERING AND APPLIED CHEMISTRY WITH ML AND AI
Course Description:	

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Course Code	BHS160L
Course Title	COMPUTER APPLICATIONS IN CHEMICAL/BIOLOGICAL ENGINEERING AND APPLIED CHEMISTRY WITH ML AND AI LABORATORY
Course Description:	

Course Code	PE004
Course Title	PHYSICAL ACTIVITIES TOWARD HEALTH AND FITNESS 4
Course Description:	
<p>This course on Physical Activities Towards Health and Fitness 4 designed for the holistic development of learners, with the focus on providing physical activities for the purpose of optimizing health and fitness. Learners will engage in fitness assessments and selected team sports activities to enhance skills and develop fitness and health. It will tackle physical fitness and well-being and selected team sports history, rules, skills, equipment, and facilities. These activities enable learners to achieve their personal fitness goals in conjunction with dietary goals and build their social skills</p>	

Course Code	SS086
Course Title	GENDER AND SOCIETY
Course Description:	

Course Code	SS036
Course Title	SCIENCE, TECHNOLOGY AND SOCIETY
Course Description:	
<p>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.</p>	

Course Code	SS023
Course Title	THE CONTEMPORARY WORLD
Course Description:	
<p>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 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.</p>	

Course Code	SGE1004
Course Title	STUDENT GLOBAL EXPERIENCE
Course Description:	

Course Code	SS038
Course Title	THE LIFE AND WORKS OF RIZAL

Course Description: