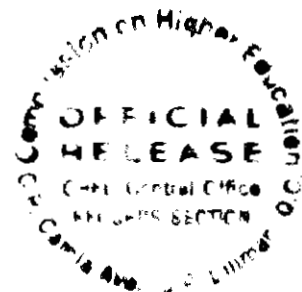




Republic of the Philippines  
OFFICE OF THE PRESIDENT  
**COMMISSION ON HIGHER EDUCATION**



**CHED MEMORANDUM ORDER (CMO)**

No. 41

Series of 2012

**SUBJECT: MODEL EMBEDMENT OF TVET COMPETENCIES / QUALIFICATIONS IN THE LADDERIZED BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY/ BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCE PROGRAM**

X-----X  
In accordance with pertinent provisions of Republic Act (RA) No. 7722, otherwise known as the “Higher Education Act of 1994,” Executive Order 358-2004 “Institutionalizing a Ladderized Interface between Technical Vocational Education Training (TVET) and Higher Education (HE), and by virtue of CEB Resolution No. 309-2012, the model embedment of Technical and Vocational Education and Training (TVET) Competencies / Qualifications contained in appropriate TVET Training Regulations (TRs) in the Bachelor of Science in Medical Technology/ Bachelor Science in Medical Laboratory Science Program is hereby adopted and promulgated by the Commission.

**ARTICLE I  
AUTHORITY TO OPERATE**

**Section 1. Authority to Operate**

All Private Higher Education Institutions (PHEIs) with Bachelor of Science in Medical Technology (BSMedTech)/ Bachelor of Science in Medical Laboratory Science (BSMLS) granted recognition / authority by the Commission on Higher Education (CHED) and approved by the respective Governing Boards in the case of chartered State Universities and Colleges (SUCs), and Local Colleges and Universities (LCUs) intending to offer Ladderized BSMedTech/ BSMLS shall submit to CHED the necessary documents required by CMO No. 43 series 2008, Implementing Guidelines of Executive Order No. 694 entitled “Enabling Higher Education Institutions to Opt to Ladderize their Education Programs Without Need for Issuance of Permit from the Commission on Higher Education and the Technical Education and Skills Development Authority.”

**ARTICLE II  
CURRICULUM**

**Section 2. Curriculum Description**

The model embedment of BSMedTech/ BSMLS curriculum shall be adopted as the minimum requirement and shall be built as prescribed in “CMO No.14, s. 2006 – Policies, Standards and Guidelines for Medical Technology Education (BSMedTech)/ Bachelor of Science in Medical Laboratory Science (BSMLS)” for the completion of the Ladderized BSMedTech/ BSMLS program. The TESDA Training Regulations embedded in this curriculum include but are not limited to the following:

TVET Qualification/s
<b>Track 1:</b>
Medical Transcription NC II and Emergency Medical Services NC II
<b>Track 2:</b>
Medical Transcription NC II and Health Care Services NC II
<b>Track 3:</b>
Emergency Medical Services NC II
<b>Track 4:</b>
Health Care Services NC II
<b>Track 5:</b>
Medical Transcription NC II

### Section 3. Curriculum Outline

The curriculum outline is divided into six (6) components namely: General Education Courses, Core Courses, Professional Courses, Research, Seminar, and Internship.

### Section 4. Enrichment of the Model Curriculum

The institution may enrich the sample/model curriculum herein attached as ANNEX 1 depending on the needs of the industry, provided that all prescribed courses required in the curriculum outline are offered and pre-requisite and co-requisite are complied with.

## ARTICLE III GENERAL REQUIREMENTS

**Section 5.** The general requirements for the Bachelor of Science in Medical Technology/ Bachelor of Science in Medical Laboratory Science Program are contained in CMO 14, s. 2006.

### Section 6. Faculty Qualifications

HEIs which intend to offer the Ladderized BSMedTech/ BSMLS program should satisfy the requirements as prescribed in the afore-stated CMO and TESDA Training Standards on faculty/trainer qualifications as prescribed in CMO No. 43, s. 2008.

## ARTICLE IV RECOGNITION OF TESDA NATIONAL CERTIFICATES

**Section 7.** HEIs may accept a holder with valid relevant TESDA National Certificates who wish to pursue BSMedTech/ BSMLS program. Such certificates may be given credit units upon verification by the concerned HEIs. Further, the Transcript of Records shall reflect the grade of "Passed" and TESDA NC level.



**ARTICLE V  
MONITORING AND EVALUATION**

**Section 8.** The CHED will initially conduct an evaluation of the HEIs that will offer the Ladderized BS MedTech/ BSMLS program prior to implementation.

The CHED and TESDA representatives shall jointly monitor and evaluate or do compliance audit to ensure compliance with the minimum requirements. Compliance audit shall be done at least once every two years.

**ARTICLE VI  
SANCTIONS**

**Section 9.** For violations of this Order, the Commission may impose such administrative sanction as it may deem appropriate pursuant to the pertinent provisions of Republic Act No. 7722, in relation to Section 69 of Batas Pambansa 232, and Section 143 of the Manual of Regulations for Philippine Higher Education (MORPHE), and other related laws.

**ARTICLE VII  
SEPARABILITY AND REPEALING CLAUSE**

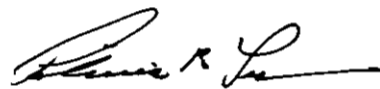
**Section 10.** Any provision of this Order, which may hereafter be held invalid, shall not affect the remaining provisions.

**ARTICLE VIII  
EFFECTIVITY CLAUSE**

**Section 11.** This CMO shall take effect starting 1st semester of SY 2012-2013, after publication as required by law.

**Quezon City, Philippines, October 8, 2012.**

For the Commission:



**PATRICIA B. LICUANAN, Ph. D.**  
Chairperson

*Encl.: Annex 1. Model Curriculum*



**MODEL EMBEDMENT OF MEDICAL TRANSCRIPTION AND EMERGENCY MEDICAL SERVICES IN BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCE/MEDICAL TECHNOLOGY PROGRAM**

**FIRST YEAR  
First Semester**

	SUBJECTS	Lec	Lab	Units	TVET modules Units of Competency
English 1	Communication Skills I	3	0	3	
Filipino 1	Sining ng Pakikipagtalastasan	3	0	3	
Math 1	College Algebra	3	0	3	
Chem 1	General/Inorganic Chem.	2	1	3	Work in Team Environment (Basic)
					Practice occupational health and safety procedures (Basic)
Biological Sciences	Biological Science (Botany or Zoology or Human Biology)	2	1	3	Use Medical terminology to carry out tasks (MT)
	Introduction to Med. Tech. with STS	3	0	3	Practice career professionalism (Basic)
					Maintain High standard of patient services (Common)
					Implement and monitor infection control policies and procedures (Common)
					Apply quality standards (Common MT)
P.E. 1		2	0	2	
NSTP	NSTP	1	2	3	Apply basic first aid (Common )
					Perform basic Life support (Core EMS )
					Maintain Life support equipment (Core EMS)
					Implement safe and access extrication procedures in an emergency (Core EMS)
<b>Total</b>				<b>23</b>	

**Second Semester**

	SUBJECTS	Lec	Lab	Units	TVET modules Units of Competency
English 2	Communication Skills II	3	0	3	Participate in workplace communication (Basic)
Filipino 2	Panitikang Filipino	3	0	3	
Chem 2	Analytical Chemistry (Qualitative & Quantitative)	2	1	3	
Comp 1	Introduction to Information Technology	1	2	3	Perform computer operation ( Core MT)
					Use business technology ( Core MT)
					Produce text from audio transcription (Core MT)



**MODEL EMBEDMENT OF MEDICAL TRANSCRIPTION AND EMERGENCY MEDICAL SERVICES IN BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCE/MEDICAL TECHNOLOGY PROGRAM**

Physics	Physics	2	1	3	
Logic	Logic	3	0	3	
P.E. 2				2	
NSTP	NSTP	1	2	3	Manage request for ambulance service (Core EMS)
					allocate ambulance service resources (Core EMS)
					Coordinate emergency resources (Core EMS)
					Deliver basic ambulance communication skills (Core EMS)
					Supervise on-road operations (Core EMS)
Manage ambulance operations (Core EMS)					
		<b>Total</b>		<b>23</b>	

**SECOND YEAR  
First Semester**

	SUBJECTS	Lec	Lab	Units	TVET modules Units of Competency
Lit. 1	Phil. Literature in English	3	0	3	
Chem. 3	Organic Chemistry	3	2	5	
	Socio w/ Anthropology	3	0	3	
	Integrated Human Anatomy & Physiology	3	2	5	
	General Psychology	3	0	3	Respond effectively to difficult/challenging behavior (Common)
P.E. 3		2	0	2	
		<b>Total</b>		<b>21</b>	

**Second Semester**

	SUBJECTS	Lec	Lab	Units	TVET modules Units of Competency
PHGC	Phil. History /Govt and Constitution	3	0	3	
Math 2	Basic Statistics	3	0	3	
	Health Eco w/ TLR	3	0	3	
Health Care	Community & Public Health	2	3	5	Manage the scene of an emergency (Core EMS)
					Manage scene of special event (Core EMS)
					Manage routine scene (Core EMS)
					Deliver pre-hospital patient care (Core EMS)
					Deliver intensive pre-hospital patient care (Core EMS)
					Transport emergency patients (EMS Core)
					Transport non-emergency patients (EMS Core)
Drive vehicle under operational conditions (EMS Core)					
Chem. 4	Biochemistry	3	2	5	
Philo	Philosophy of Human Person	3	0	3	
P.E. 4				2	
		<b>Total</b>		<b>24</b>	

**Emergency Medical Services NC II and MEDICAL TRANSCRIPTION NC II will be issued by TESDA upon passing the certification process**



**MODEL EMBEDMENT OF MEDICAL TRANSCRIPTION AND EMERGENCY MEDICAL SERVICES IN BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCE/MEDICAL TECHNOLOGY PROGRAM**

**THIRD YEAR  
1st SEMESTER**

SUBJECT	LEC	LAB	Total
CC 2 (Clinical Chemistry 2)	3	1	4
MICRO 2 – Mycology & Virology	3	2	5
IS – Immunology & Serology	1	1	2
Pharma – Pharmacology	2	0	2
Parasitology	2	1	3
MTBLE – Med. Tech. Laws & Bioethics	3	0	3
Laboratory Management	2	0	2
<b>Total :</b>			<b>21</b>

**2nd SEMESTER**

SUBJECT	LEC	LAB	Total
CC 2 Clinical Chemistry 2	2	1	3
Mycology & Virology	2	0	2
IS – Immunology and Serology	3	1	4
Pharma – Pharmacology	2	0	2
Hema 1 – Hematology	2	2	4
AUBF – Analysis of Urine and other body	2	1	3
Research 1 – Introduction to Research	1	0	1
Rizal – Life and Works of Rizal	3	0	3
<b>Total :</b>			<b>22</b>

**FOURTH YEAR  
1st SEMESTER**

SUBJECT	LEC	LAB	Total
Clinical Chemistry 3 – Endocrinology, Toxicology & Drug testing	2	0	2
Hema 2 – Hematology	2	1	3
Research 2 – Research Paper Writing and Presentation	1	1	2
IH – Immunohematology (Blood Banking)	2	1	3
Gen Path – Histopathologic & Cytologic Techniques	2	1	3
PSTHE – Principles & Strategies of Teaching in Health Education	3	0	3
Seminar I – Special Topics	3	0	3
<b>Total :</b>			<b>19</b>

**FOURTH YEAR  
2<sup>nd</sup> SEMESTER**

SUBJECT	LAB
Internship	18
Seminar II- Special Topics	3
<b>Total :</b>	<b>21</b>



**MODEL EMBEDMENT OF MEDICAL TRANSCRIPTION AND HEALTH CARE SERVICES  
IN BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCE /  
MEDICAL TECHNOLOGY PROGRAM**

**FIRST YEAR  
First Semester**

	<b>SUBJECTS</b>	<b>Lec</b>	<b>Lab</b>	<b>Units</b>	<b>TVET modules Units of Competency</b>
English 1	Communication Skills I	3	0	3	
Filipino 1	Sining ng	3	0	3	
Math 1	College Algebra	3	0	3	
Chem 1	General/Inorganic Chem.	2	1	3	Work in Team Environment (Basic)
					Practice occupational health and safety procedures (Basic)
Biological Sciences	Biological Science (Botany or Zoology or Human	2	1	3	Use Medical Terminology to carry out tasks (MT)
	Introduction to Med. Tech. with STS	3	0	3	Practice career professionalism (Basic)
					Maintain high standard of patient services (Common)
					Implement and monitor infection control policies and procedures (Common)
					Apply quality standards (Common MT)
P.E. 1		2	0	2	
NSTP	NSTP	1	2	3	Apply basic first aid (Common )
					Handle waste in a health care environment (Core HCS )
					Assist in bio-psychosocial support care of clients/patients (Core HCS)
<b>Total</b>				<b>23</b>	

**Second Semester**

	<b>SUBJECTS</b>	<b>Lec</b>	<b>Lab</b>	<b>Units</b>	<b>TVET modules Units of Competency</b>
English 2	Communication Skills II	3	0	3	Participate in workplace communication (Basic)
Filipino 2	Panitikang Filipino	3	0	3	
Chem 2	Analytical Chemistry (Qualitative & Quantitative)	2	1	3	
Comp 1	Introduction to Information Technology	1	2	3	Perform computer operation ( Core MT)
					Use business technology ( Core MT)
					Produce text from audio transcription (Core MT)
Physics	Physics	2	1	3	
Logic	Logic	3	0	3	
P.E. 2				2	
NSTP	NSTP	1	2	3	Prepare and maintain beds (Core HCS)
					Collect and maintain linen stocks at end -used locations (Core HCS)
<b>Total</b>				<b>23</b>	



**SECOND YEAR  
First Semester**

	<b>SUBJECTS</b>	<b>Lec</b>	<b>Lab</b>	<b>Units</b>	<b>TVET modules Units of Competency</b>
Lit. 1	Phil. Literature in English	3	0	3	
Chem. 3	Organic Chemistry	3	2	5	
	Socio w/ Anthropology	3	0	3	
	Integrated Human Anatomy & Physiology	3	2	5	
	General Psychology	3	0	3	Respond effectively to difficult/challenging behavior (Common)
P.E. 3		2	0	2	
		<b>Total</b>		<b>21</b>	

**Second Semester**

	<b>SUBJECTS</b>	<b>Lec</b>	<b>Lab</b>	<b>Units</b>	<b>TVET modules Units of Competency</b>
PHGC	Phil. History /Govt and Cons.	3	0	3	
Math 2	Basic Statistics	3	0	3	
	Health Eco w/ TLR	3	0	3	
Health Care	Community & Public Health	2	3	5	Assist in client/patient mobility (Core HCS) Assist in transporting clients/patients (Core HCS)
Chem. 4	Biochemistry	3	2	5	
Philo.	Philosophy of Human Person	3	0	3	
P.E. 4				2	
		<b>Total</b>		<b>24</b>	

**Health Care Services NC II and MEDICAL TRANSCRIPTION NC II will be issued by TESDA upon passing the certification process**

**THIRD YEAR  
1st SEMESTER**

<b>SUBJECT</b>	<b>LEC</b>	<b>LAB</b>	<b>Total</b>
CC 2 (Clinical Chemistry 2)	3	1	4
MICRO 2 – Mycology & Virology	3	2	5
IS – Immunology & Serology	1	1	2
Pharma – Pharmacology	2	0	2
Parasitology	2	1	3
MTBLE – Med. Tech. Laws & Bioethics	3	0	3
Laboratory Management	2	0	2
<b>Total :</b>			<b>21</b>





**2nd SEMESTER**

SUBJECT	LEC	LAB	Total
CC 2 Clinical Chemistry 2	2	1	3
Mycology & Virology	2	0	2
IS – Immunology and Serology	3	1	4
Pharma – Pharmacology	2	0	2
Hema 1 – Hematology	2	2	4
AUBF – Analysis of Urine and other body fluids	2	1	3
Research 1 – Introduction to Research	1	0	1
Rizal – Life and Works of Rizal	3	0	3
<b>Total :</b>			<b>22</b>

**FOURTH YEAR****1st SEMESTER**

SUBJECT	LEC	LAB	Total
Clinical Chemistry 3 – Endocrinology, Toxicology & Drug testing	2	0	2
Hema 2 – Hematology	2	1	3
Research 2 – Research Paper Writing and Presentation	1	1	2
IH – Immunohematology (Blood Banking)	2	1	3
Gen Path – Histopathologic & Cytologic Techniques	2	1	3
PSTHE – Principles & Strategies of Teaching in Health Education	3	0	3
Seminar I – Special Topics	3	0	3
<b>Total :</b>			<b>19</b>

**FOURTH YEAR****2<sup>nd</sup> SEMESTER**

SUBJECT	LAB
Internship	18
Seminar II- Special Topics	3
<b>Total :</b>	<b>21</b>



**MODEL EMBEDMENT OF EMERGENCY MEDICAL SERVICES IN BACHELOR OF SCIENCE IN MEDICAL  
LABORATORY SCIENCE / MEDICAL TECHNOLOGY PROGRAM**

**FIRST YEAR  
1st SEMESTER**

SUBJECT	LEC	LAB	UNITS	TVET modules
				Units of Competency
English I – Communication Skills I	3	0	3	
Filipino I – Sining ng Pakikipagtalastasan	3	0	3	
Math I – College Algebra	3	0	3	
Chem I – General and Inorganic Chemistry	2	1	3	Work in Team Environment (Basic)
				Practice occupational health and safety procedures (Basic)
Biological Sciences – Biological Science (Botany or Zoology or Human Biology)	2	1	3	
Introduction to Med. Tech. With STS	3	0	3	Practice career professionalism (Basic)
				Maintain high standards of patient services (Common) Implement and monitor infection control policies and procedures (Common)
P.E. - Physical Education 1	2	0	2	
NSTP 1	1	2	3	Apply basic first aid (Common)
				Perform basic life support (Core) Maintain life support equipment (Core) Implement safe and access and extrication procedures in an emergency (Core)
<b>Total :</b>			<b>23</b>	

**2nd SEMESTER**

SUBJECT	LEC	LAB	UNITS	TVET modules
				Units of Competency
English 2 – Communication Skills II	3	0	3	Participate in Workplace Communication (Basic)
Filipino 2 - Panitikang Filipino	3	0	3	
Chem II – Analytical Chemistry (Qualitative and Quantitative)	2	1	3	
Comp I – Introduction to Information Technology	1	2	3	
Physics	3	0	3	
Logic	2	1	3	
P.E. - Physical Education II	2	0	2	
NSTP	1	2	3	Manage request for ambulance service (Core)
				Allocate ambulance service resources (Core) Coordinate emergency resources (Core) Deliver basic ambulance communication skills (Core) Supervise on-road operations (Core) Manage ambulance operations (Core)
<b>Total :</b>			<b>23</b>	



**MODEL EMBEDMENT OF EMERGENCY MEDICAL SERVICES IN BACHELOR OF SCIENCE IN MEDICAL  
LABORATORY SCIENCE / MEDICAL TECHNOLOGY PROGRAM**

**SECOND YEAR**

**1st SEMESTER**

SUBJECT	LEC	LAB	UNITS	TVET modules
				Units of Competency
Lit. I – Philippine Literature in English	3	0	3	
Chem 3 – Organic Chemistry	3	2	5	
Socio with Anthropology	3	0	3	
Integrated Human Anatomy & Physiology	3	2	5	
General Psychology	3	0	3	Respond effectively to difficult/ challenging behavior (Common)
Physical Education 3	2	0	2	
<b>Total :</b>			<b>21</b>	

**2nd SEMESTER**

SUBJECT	LEC	LAB	UNITS	TVET modules
				Units of Competency
PHGC – Philippine History/Government Cons.	3	0	3	
Math II – Basic Statistics	3	0	3	
Health Eco with TLR	3	0	3	
Health Care – Community and Public Health	2	3	5	Manage the scene of an emergency (Core) Manage the scene of special event (Core) Manage routine scene (Core) Deliver pre-hospital patient care (Core) Deliver intensive pre-hospital patient care (Core) Transport emergency patients (Core) Transport non- emergency patients (Core) Drive vehicle under operational conditions (Core)
Chem 4 – Biochemistry	3	2	5	
Philo – Philosophy of Human Person	3	0	3	
Physical Education 4	2	0	2	
<b>Total :</b>			<b>24</b>	

Emergency Medical Services NC II will be issued by TESDA upon passing the certification process.

**THIRD YEAR**

**1st SEMESTER**

SUBJECT	LEC	LAB	Total
CC 2 (Clinical Chemistry 2)	3	1	4
MICRO 2 – Mycology & Virology	3	2	5
IS – Immunology & Serology	1	1	2
Pharma – Pharmacology	2	0	2
Parasitology	2	1	3
MTBLE – Med. Tech. Laws & Bioethics	3	0	3
Laboratory Management	2	0	2
<b>Total :</b>			<b>21</b>

**2nd SEMESTER**

SUBJECT	LEC	LAB	Total
CC 2 Clinical Chemistry 2	2	1	3
Mycology & Virology	2	0	2
IS – Immunology and Serology	3	1	4
Pharma – Pharmacology	2	0	2
Hema 1 – Hematology	2	2	4
AUBF – Analysis of Urine and other body fluids	2	1	3
Research 1 – Introduction to Research	1	0	1
Rizal – Life and Works of Rizal	3	0	3
<b>Total :</b>			<b>22</b>



**MODEL EMBEDMENT OF EMERGENCY MEDICAL SERVICES IN BACHELOR OF SCIENCE IN MEDICAL  
LABORATORY SCIENCE / MEDICAL TECHNOLOGY PROGRAM**

**FOURTH YEAR  
1st SEMESTER**

<b>SUBJECT</b>	<b>LEC</b>	<b>LAB</b>	<b>Total</b>
Clinical Chemistry 3 – Endocrinology, Toxicology & Drug testing	2	0	2
Hema 2 – Hematology	2	1	3
Research 2 – Research Paper Writing and Presentation	1	1	2
IH – Immunohematology (Blood Banking)	2	1	3
Gen Path – Histopathologic & Cytologic Techniques	2	1	3
PSTHE – Principles & Strategies of Teaching in Health Education	3	0	3
Seminar I – Special Topics	3	0	3
<b>Total :</b>			<b>19</b>

**FOURTH YEAR  
2<sup>nd</sup> SEMESTER**

<b>SUBJECT</b>	<b>LAB</b>
Internship	18
Seminar II- Special Topics	3
<b>Total :</b>	<b>21</b>



**MODEL EMBEDMENT OF HEALTH CARE SERVICES IN BACHELOR OF SCIENCE IN MEDICAL  
LABORATORY SCIENCE / MEDICAL TECHNOLOGY PROGRAM**

**FIRST YEAR  
1st SEMESTER**

SUBJECT	LEC	LAB	UNITS	TVET modules
				Units of Competency
English I – Communication Skills I	3	0	3	
Filipino I – Sining ng Pakikipagtalastasan	3	0	3	
Math I – College Algebra	3	0	3	
Chem I – General and Inorganic Chemistry	2	1	3	Work in Team Environment (Basic)
				Practice occupational health and safety procedures (Basic)
Biological Sciences – Biological Science (Botany or Zoology or Human Biology)	2	1	3	
Introduction to Med. Tech. with STS	3	0	3	Practice career professionalism (Basic)
				Maintain high standards of patient services (Common) Implement and monitor infection control policies and procedures (Common)
P.E. - Physical Education 1	2	0	2	
NSTP 1	1	2	3	Apply basic first aid (Common)
				Handle waste in a health care environment (Core) Assist in psychosocial support care of clients/patients (Core)
<b>Total :</b>			<b>23</b>	

**2nd SEMESTER**

SUBJECT	LEC	LAB	UNITS	TVET modules		
				Units of Competency		
English 2 – Communication Skills II	3	0	3	Participate in Workplace Communication (Basic)		
Filipino 2 – Panitikang Filipino	3	0	3			
Chem II – Analytical Chemistry (Qualitative and Quantitative)	2	1	3			
Comp I – Introduction to Information Technology	1	2	3			
Physics	3	0	3			
Logic	2	1	3			
P.E. - Physical Education II	2	0	2			
NSTP	1	2	3	Prepare and maintain beds (Core)		
				Collect and maintain linen stocks and end-use locations (Core)		
<b>Total :</b>			<b>17</b>	<b>6</b>	<b>23</b>	



**SECOND YEAR  
1st SEMESTER**

SUBJECT	LEC	LAB	UNITS	TVET modules
				Units of Competency
Lit. I – Philippine Literature in English	3	0	3	
Chem 3 – Organic Chemistry	3	2	5	
Socio with Anthropology	3	0	3	
Integrated Human Anatomy & Physiology	3	2	5	
General Psychology	3	0	3	Respond effectively to difficult/ challenging behavior (Common)
Physical Education 3	2	0	2	
<b>Total :</b>	<b>17</b>	<b>4</b>	<b>21</b>	

**2nd SEMESTER**

SUBJECT	LEC	LAB	UNITS	TVET modules
				Units of Competency
PHGC – Philippine History/Government Cons.	3	0	3	
Math II – Basic Statistics	3	0	3	
Health Eco with TLR	3	0	3	
Health Care – Community and Public Health	2	3	5	Assist in clients/patient mobility (Core) Assist in transporting clients/patients (Core)
Chem 4 – Biochemistry	3	2	5	
Philo – Philosophy of Human Person	3	0	3	
Physical Education 4	2	0	2	
<b>Total :</b>	<b>19</b>	<b>5</b>	<b>24</b>	

**Health Care Services NC II will be issued by TESDA upon passing the certification process**

**THIRD YEAR  
1st SEMESTER**

SUBJECT	LEC	LAB	Total
CC 2 (Clinical Chemistry 2)	3	1	4
MICRO 2 – Mycology & Virology	3	2	5
IS – Immunology & Serology	1	1	2
Pharma – Pharmacology	2	0	2
Parasitology	2	1	3
MTBLE – Med. Tech. Laws & Bioethics	3	0	3
Laboratory Management	2	0	2
<b>Total :</b>			<b>21</b>

**2nd SEMESTER**

SUBJECT	LEC	LAB	Total
CC 2 Clinical Chemistry 2	2	1	3
Mycology & Virology	2	0	2
IS – Immunology and Serology	3	1	4
Pharma – Pharmacology	2	0	2
Hema 1 – Hematology	2	2	4
AUBF – Analysis of Urine and other body fluids	2	1	3
Research 1 – Introduction to Research	1	0	1
Rizal – Life and Works of Rizal	3	0	3
<b>Total :</b>			<b>22</b>



**FOURTH YEAR  
1st SEMESTER**

<b>SUBJECT</b>	<b>LEC</b>	<b>LAB</b>	<b>Total</b>
Clinical Chemistry 3 – Endocrinology, Toxicology & Drug testing	2	0	2
Hema 2 – Hematology	2	1	3
Research 2 – Research Paper Writing and Presentation	1	1	2
IH – Immunohematology (Blood Banking)	2	1	3
Gen Path – Histopathologic & Cytologic Techniques	2	1	3
PSTHE – Principles & Strategies of Teaching in Health Education	3	0	3
Seminar I – Special Topics	3	0	3
<b>Total :</b>			<b>19</b>

**FOURTH YEAR  
2<sup>nd</sup> SEMESTER**

<b>SUBJECT</b>			<b>LAB</b>	
Internship			18	100
Seminar II- Special Topics	0	0	3	150
<b>Total :</b>	0	0	21	250



**MODEL EMBEDMENT OF MEDICAL TRANSCRIPTION IN BACHELOR OF SCIENCE IN MEDICAL  
LABORATORY SCIENCE / MEDICAL TECHNOLOGY PROGRAM**

**FIRST YEAR  
1st SEMESTER**

SUBJECT	LEC	LAB	UNITS	TVET modules
				Units of Competency
English I – Communication Skills I	3	0	3	
Filipino I – Sining ng Pakikipagtalastasan	3	0	3	
Math I – College Algebra	3	0	3	
Chem I – General and Inorganic Chemistry	2	1	3	Work in Team Environment (Basic)
				Practice occupational health and safety procedures (Basic)
Biological Sciences – Biological Science (Botany or Zoology or Human Biology)	2	1	3	Use Medical terminology to carry out tasks (Core)
Introduction to Med. Tech. With STS	3	0	3	Practice career professionalism (Basic)
				Apply quality standards (Common)
P.E. - Physical Education 1	2	0	2	
NSTP 1	1	2	3	
<b>Total :</b>			<b>23</b>	

**2nd SEMESTER**

SUBJECT	LEC	LAB	UNITS	TVET modules
				Units of Competency
English 2 – Communication Skills II	3	0	3	Participate in Workplace Communication (Basic)
Filipino 2 - Panitikang Filipino	3	0	3	
Chem II – Analytical Chemistry (Qualitative and Quantitative)	2	1	3	
Comp I – Introduction to Information Technology	1	2	3	Perform computer operation (Common)
				Use business technology (Core)
				Produce text from audio transcription (Core)
Physics	3	0	3	
Logic	2	1	3	
P.E. - Physical Education II	2	0	2	
NSTP	1	2	3	
<b>Total :</b>			<b>23</b>	

**Medical Transcription NC II will be issued by TESDA upon passing the certification process.**

**SECOND YEAR  
1st SEMESTER**

SUBJECT	LEC	LAB	UNITS	TVET modules
				Units of Competency
Lit. I – Philippine Literature in English	3	0	3	
Chem 3 – Organic Chemistry	3	2	5	
Socio with Anthropology	3	0	3	
Integrated Human Anatomy & Physiology	3	2	5	
General Psychology	3	0	3	
Physical Education 3	2	0	2	
<b>Total :</b>			<b>21</b>	





**2nd SEMESTER**

SUBJECT	LEC	LAB	UNITS	TVET modules
				Units of Competency
PHGC – Philippine History/Government Constitution	3	0	3	
Math II – Basic Statistics	3	0	3	
Health Eco with TLR	3	0	3	
Health Care – Community and Public Health	2	3	5	
Chem 4 – Biochemistry	3	2	5	
Philo – Philosophy of Human Person	3	0	3	
Physical Education 4	2	0	2	
<b>Total :</b>			<b>24</b>	

**THIRD YEAR  
1st SEMESTER**

SUBJECT	LEC	LAB	Total
CC 2 (Clinical Chemistry 2)	3	1	4
MICRO 2 – Mycology & Virology	3	2	5
IS – Immunology & Serology	1	1	2
Pharma – Pharmacology	2	0	2
Parasitology	2	1	3
MTBLE – Med. Tech. Laws & Bioethics	3	0	3
Laboratory Management	2	0	2
<b>Total :</b>			<b>21</b>

**2nd SEMESTER**

SUBJECT	LEC	LAB	Total
CC 2 Clinical Chemistry 2	2	1	3
Mycology & Virology	2	0	2
IS – Immunology and Serology	3	1	4
Pharma – Pharmacology	2	0	2
Hema 1 – Hematology	2	2	4
AUBF – Analysis of Urine and other body fluids	2	1	3
Research 1 – Introduction to Research	1	0	1
Rizal – Life and Works of Rizal	3	0	3
<b>Total :</b>			<b>22</b>

**FOURTH YEAR  
1st SEMESTER**

SUBJECT	LEC	LAB	Total
CC 3 – Endocrinology, Toxicology & Drug testing	2	0	2
Hema 2 – Hematology	2	1	3
Research 2 – Research Paper Writing and Presentation	1	1	2
IH – Immunohematology (Blood Banking)	2	1	3
Gen Path – Histopathologic & Cytologic Techniques	2	1	3
PSTHE – Principles & Strategies of Teaching in Health Education	3	0	3
Seminar I – Special Topics	3	0	3
<b>Total :</b>			<b>19</b>

**2<sup>nd</sup> SEMESTER**

SUBJECT	LAB
Internship	18
Seminar II- Special Topics	3
<b>Total :</b>	<b>21</b>

