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REPUBLICA DE PANAMA  
UNIVERSIDAD LATINA  
FACULTAD DE CIENCIAS DE LA SALUD DR. WILLIAMS C. GORGAS  
LICENCIATURA EN FISIOTERAPIA

PHYSIOTHERAPY STUDY PROGRAM		BACHELOR degree level				
CODE	SUBJECT	THEORY HOURS	LAB HOURS	CLINIC HOURS	WORKSHOP	CREDITS
		<b>FIRST SEMESTER</b>				
EFI-001	CHEMISTRY I	3	3	0	0	4
EFI-002	BIOLOGY I	3	6	0	0	6
EFI-003	MATHEMATICAL PHYSICS I	3	4	0	0	5
EFI-004	ENGLISH I	2	0	0	2	3
EFI-005	COMPUTING I	2	2	0	0	3
EFI-060	REHABILITATION I	2	0	0	2	3
		15	15	0	4	24
		<b>SECOND SEMESTER</b>				
EFI-0011	HUMAN BIOCHEMISTRY	3	3	0	0	4
EFI-050	SCIENTIFIC RESEARCH METHOD	3	3	0	0	4
EFI-051	COMPUTING II	2	2	0	0	3
EFI-061	REHABILITATION II	4	0	8	0	6
EFI-0021	BIOLOGY II	3	6	0	0	6
EFI-0041	ENGLISH II	2	0	0	2	3
		17	14	8	2	26
		<b>THIRD SEMESTER</b>				
EFI-010	ANTHROPOLOGY	2	0	0	2	3
EFI-012	HUMAN ANATOMY	4	6	0	0	7
EFI-019	HUMAN HISTOLOGY	3	6	0	0	6
EFI-062	REHABILITATION III	4	0	8	0	6
EFI-063	BIOMECHANICS	3	0	0	3	4
EFI-064	REHABILITATION PSYCHOLOGY	2	0	0	2	3
		18	12	8	7	29
		<b>FOURTH SEMESTER</b>				
EFI-027	HUMAN PATHOLOGY	3	6	0	0	6
EFI-065	HUMAN PHYSIOLOGY	3	6	0	0	6
EFI-066	NEUROANATOMY	4	6	0	0	7
EFI-067	REHABILITATION NURSING	2	0	4	0	3
EFI-068	PHARMACISTS REHABILITATION FOUNDATION	2	0	0	2	3
		14	18	4	2	25
		<b>FIFTH SEMESTER</b>				
EFI-039	ORTHOPAEDICS AND TRAUMATOLOGY	2	0	0	4	4
EFI-059	SOCIOLOGY	3	0	0	2	4
EFI-069	DESCRIPTIVE STATISTICS	2	6	0	0	5
EFI-070	REHABILITATION IV	4	0	8	0	6
EFI-071	PSYCOMOTRICITY	2	2	0	0	3
EFI-072	PHARMACOLOGICAL DEPENDENCY AND PSYCHIATRIC PROBLEMS	3	0	8	0	6
		16	8	16	6	28
		<b>SIXTH SEMESTER</b>				
EFI-073	REHABILITATION V	4	0	8	0	6
EFI-074	ORTHOTIC AND PROSTHETIC	3	0	4	0	4
EFI-075	SPORTS MEDICINE	3	0	4	0	4
EFI-076	ETHICS I	2	0	0	2	3
EFI-077	NEUROLOGICAL DISEASES	2	0	0	4	4
EFI-078	HOSPITAL PRACTICE I	0	0	40	0	13
		14	0	56	6	34
		<b>SEVENTH SEMESTER</b>				
EFI-079	REHABILITATION VI	4	0	8	0	6
EFI-080	REHABILITATION PLANNING AND MANAGEMENT	2	0	0	2	3
EFI-081	REHABILITATION VII	4	0	8	0	6
EFI-082	OCCUPATIONAL SAFETY REGULATIONS	3	0	0	2	4
EFI-083	SPECIFIC DISEASES	2	0	0	4	4
EFI-084	RESEARCH SEMINAR	2	0	0	2	3
		17	0	16	10	26
		<b>EIGHTH SEMESTER</b>				
EFI-085	SOCIAL SERVICES	0	0	40	0	0
EFI-086	HOSPITAL PRACTICE II	0	0	40	0	13
		0	0	80	0	13
<b>TOTAL OF CREDITS</b>						<b>205</b>

REPUBLICA DE PANAMA  
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FACULTAD DE CIENCIAS DE LA SALUD DR. WILLIAMS C. GORGAS  
LICENCIATURA EN TECNOLOGIA MEDICA (plan nuevo)

MEDICAL TECHNOLOGY STUDY PROGRAM		BACHELOR degree level		
CODE	SUBJECT	THEORY HOURS	PRACTICAL HOURS	CREDITS
<b>FIRST SEMESTER</b>				
ETM-001	CELL AND MOLECULAR BIOLOGY	3	6	6
ETM-002	GENERAL CHEMISTRY I	3	3	4
ETM-003	MATHEMATICAL PHYSICS	3	6	6
ETM-100	ENGLISH I	2	2	3
ETM-101	GENERAL COMPUTING	2	2	3
		<b>13</b>	<b>19</b>	<b>22</b>
<b>SECOND SEMESTER</b>				
ETM-001.1	HUMAN BIOLOGY	3	6	6
ETM-002.1	GENERAL CHEMISTRY II	3	3	4
ETM-002.2	QUANTITATIVE ANALYTICAL CHEMISTRY	3	6	6
ETM-100.1	ENGLISH II	2	2	3
ETM-101.1	APPLIED COMPUTING	2	2	3
		<b>13</b>	<b>19</b>	<b>22</b>
<b>THIRD SEMESTER</b>				
ETM-004	BIOCHEMISTRY	4	3	5
ETM-005	PHYSICAL CHEMISTRY	3	3	4
ETM-006	BIOLOGICAL STATISTICS	3	4	5
ETM-102	ANTHROPOLOGY	3	0	3
ETM-103	HEALTH SOCIOLOGY	3	0	3
		<b>16</b>	<b>10</b>	<b>20</b>
<b>FOURTH SEMESTER</b>				
ETM-007	GENERAL MICROBIOLOGY	3	5	5
ETM-008	HUMAN ANATOMY	4	6	6
ETM-009	SCIENTIFIC RESEARCH METHOD	3	3	4
ETM-010	GENERAL PARASITOLOGY	2	3	4
ETM-011	EPIDEMIOLOGY IN PUBLIC HEALTH	2	2	3
		<b>14</b>	<b>19</b>	<b>22</b>
<b>FIFTH SEMESTER</b>				
ETM-012	HUMAN CYTOLOGY AND HISTOLOGY	3	6	6
ETM-013	HUMAN PHYSIOLOGY	4	3	5
ETM-014	CLINICAL CHEMISTRY I	3	3	4
EMC-104	HEALTH PSYCHOLOGY	2	2	3
ETM015	CLINICAL MICROBIOLOGY I	2	6	6
		<b>14</b>	<b>20</b>	<b>24</b>
<b>SIXTH SEMESTER</b>				
ETM-016	CLINICAL PARASITOLOGY	2	3	4
ETM-017	CLINICAL IMMUNNOLOGY	2	3	3
ETM-018	CLINICAL CHEMISTRY II	3	3	4
ETM-0151	CLINICAL MICROBIOLOGY II	2	6	6
ETM-020	PRINCIPLES OF PHYSIOPATHOLOGY	2	3	4
		<b>11</b>	<b>18</b>	<b>21</b>
CODE	SUBJECT	THEORY HOURS	PRACTICAL HOURS	CREDITS
<b>SEVENTH SEMESTER</b>				
ETM-019	URINALYSIS AND CLINICAL MICROSCOPY	3	3	4
ETM-021	HAEMATOLOGY	3	6	6
ETM-023	PRINCIPLES OF CLINICAL PATHOLOGY	2	3	3
ETM-024	IMMUNOLOGY AND BLOOD BANK	3	3	4
ETM-025	BIO-SECURITY AND QUALITY CONTROL	3	3	4
		<b>15</b>	<b>18</b>	<b>21</b>
<b>EIGHTH SEMESTER</b>				
ETM-022	CLINICAL LABORATORY INSTRUMENTATION	4	3	5
ETM-026	COMPONENTS OF VETERINARY CLINICAL LABORATORY	3	3	4
ETM-027	HOSPITAL PRACTICE I	3	33	11
		<b>6</b>	<b>36</b>	<b>20</b>
<b>NINTH SEMESTER</b>				
ETM-105	PRINCIPLES OF LABORATORY MANAGEMENT	3	0	3
ETM-106	LEGAL ASPECTS OF PROFESSIONAL ETHICS	2	0	2
ETM-027.1	HOSPITAL PRACTICE AND SOCIAL WORK II	3	33	11
ETM-028	DIRECTED RESEARCH SEMINAR	2	2	3
		<b>8</b>	<b>33</b>	<b>19</b>
<b>TOTAL OF CREDITS</b>				<b>191</b>

REPUBLICA DE PANAMA  
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LICENCIATURA EN INGENIERIA EN ELECTRONICA BIOMEDICA

BIOMEDICAL ELECTRONICS STUDY PROGRAM		BACHELOR degree level			
CODE	SUBJECT	THEORY HOURS	PRACTICAL HOURS	LAB	CREDITS
<b>FIRST SEMESTER</b>					
IEM-001	MATHEMATICS I	4	2	0	5
IEM-002	PHYSICS I	3	2	0	4
IEM-003	CHEMISTRY I	3	0	3	4
IEM-004	BIOLOGY I	3	0	3	4
IEM-005	SCIENTIFIC RESEARCH METHOD	3	0	3	4
IEM-007	PHYSICS I LAB	0	0	6	2
		<b>12</b>	<b>4</b>	<b>15</b>	<b>23</b>
<b>SECOND SEMESTER</b>					
IEM-001.1	MATHEMATICS II	4	2	0	5
IEM-002.1	PHYSICS II	3	2	0	4
IEM-003.1	CHEMISTRY II	3	0	3	4
IEM-008	TECHNICAL ENGLISH	3	0	0	3
IEM-007.1	PHYSICS II LAB	0	0	6	2
		<b>13</b>	<b>4</b>	<b>9</b>	<b>18</b>
<b>THIRD SEMESTER</b>					
IEM-009	ANATOMY AND PHYSIOLOGY I	3	0	3	4
IEM0-010	PROGRAMMING I	2	2	2	4
IEM-001.2	MATHEMATICS III	4	2	0	5
IEM-011	CIRCUITS ANALYSIS I	3	2	0	4
IEM-012	ELECTRONIC COMPONENTS	2	2	3	4
IEM-013	BASIC ELECTRONICS LAB	0	0	3	1
		<b>14</b>	<b>8</b>	<b>11</b>	<b>22</b>
<b>FOURTH SEMESTER</b>					
IEM-009.1	ANATOMY AND PHYSIOLOGY II	3	0	3	4
IEM-010.1	PROGRAMMING II	2	2	2	4
IEM-001.3	MATHEMATICS IV	4	2	0	5
IEM-011.1	CIRCUITS ANALYSIS II	3	2	0	4
IEM-014	THERMODYNAMICS APPLIED TO BIOENGINEERING	3	2	3	5
IEM-015	STATISTICS	3	0	0	4
		<b>18</b>	<b>8</b>	<b>8</b>	<b>26</b>
<b>FIFTH SEMESTER</b>					
IEM-016	ANALOGUE ELECTRONICS	2	2	3	4
IEM-017	DIGITAL ELECTRONICS	2	2	3	4
IEM-018	OPERATING SYSTEMS	2	2	2	5
IEM-019	WAVES	3	2	3	4
IEM-020	BIOMECHANICS AND BIOMATERIALS	3	2	0	4
IEM-021	COMPUTER-ASSISTED DESIGN	2	2	2	4
		<b>14</b>	<b>12</b>	<b>13</b>	<b>25</b>
<b>SIXTH SEMESTER</b>					
IEM-022	ANALOGUE INTEGRATED CIRCUITS	2	2	3	4
IEM-023	LINEAR SYSTEMS	3	2	0	4
IEM-024	CIRCUIT SYNTHESIS	2	2	3	4
IEM-025	BIOCLINICAL ANALYSIS	3	2	2	5
IEM-026	COMPUTER ARCHITECTURE	2	2	2	4
IEM-027	HOSPITAL MANAGEMENT	3	2	0	4
		<b>15</b>	<b>12</b>	<b>10</b>	<b>25</b>
<b>SEVENTH SEMESTER</b>					
IEM-028	MICROPROCESSORS	2	2	2	4
IEM-029	CONTROL SYSTEMS I	3	2	2	4
IEM-030	POWER AND INDUSTRIAL ELECTRONICS	2	2	3	4
IEM-031	BIOMEDICAL INSTRUMENTATION I	3	2	2	5
IEM-032	INTRODUCTION TO BIOMEDICAL ENGINEERING	2	2	2	4
IEM-033	INTRODUCTION TO RADIATION PHYSICS	3	0	3	4
		<b>15</b>	<b>10</b>	<b>14</b>	<b>25</b>
<b>EIGHTH SEMESTER</b>					
IEM-029.1	CONTROL SYSTEMS II	2	2	2	4
IEM-034	DIGITAL SYSTEM DESIGN	2	2	3	4
IEM-031.1	BIOMEDICAL INSTRUMENTATION II	3	2	2	4
IEM-035	MICROELECTRONICS	2	2	3	4
IEM-036	DESIGN OF BIOMEDICAL DEVICES AND SYSTEMS	3	0	3	4
		<b>12</b>	<b>8</b>	<b>13</b>	<b>20</b>
<b>NINTH SEMESTER</b>					
IEM-037	INTRODUCTION TO BIOMEDICAL COMPUTING	2	2	0	3
IEM-038	HOSPITAL PLANNING AND MANAGEMENT	3	0	0	3
IEM-039	PROFESSIONAL PRACTICE I	2	0	0	2
IEM-031.2	BIOMEDICAL INSTRUMENTATION III	3	2	2	4
IEM-040	DIGITAL SIGNAL PROCESSING	3	2	0	4
		<b>13</b>	<b>6</b>	<b>2</b>	<b>16</b>
<b>TENTH SEMESTER</b>					
IEM-041	PROFESSIONAL PRACTICE II	0	40	0	13
IEM-042	BIOMEDICAL DATA ANALYSIS	3	0	0	3
IEM-043	INTRODUCTION TO MEDICAL IMAGING	3	2	3	5
IEM-044	SPECIAL TOPICS SEMINARS	3	0	0	3
		<b>9</b>	<b>42</b>	<b>3</b>	<b>24</b>

**TOTAL OF CREDITS**

**224**

BASIC CYCLE, BACHELOR degree level				
CODE	SUBJECT	THEORY HOURS	PRACTICAL HOURS	CREDITS
<b>FIRST SEMESTER</b>				
EOD-001	CELL AND MOLECULAR BIOLOGY	2	6	4
EOD-002	ORGANIC CHEMISTRY I	3	3	4
EOD-003	APPLIED PHYSICS	4	3	5
EOD-004	INTRODUCTION TO COMPUTERS	2	2	3
EOD-005	APPLIED SOCIOLOGY	2	2	3
EOD-006	INTRODUCTION TO DENTISTRY I	2	2	3
		<b>15</b>	<b>18</b>	<b>22</b>
<b>SECOND SEMESTER</b>				
EOD-007	ORGANIC CHEMISTRY II	4	3	5
EOD-008	GENERAL HISTOLOGY	2	5	4
EOD-009	BIO-STATISTICS	2	2	3
EOD-010	ENGLISH FOR SCIENCE	2	2	3
EOD-011	INTRODUCTION TO DENTISTRY II	2	2	3
EOD-012	HUMAN ANATOMY	4	5	6
		<b>16</b>	<b>19</b>	<b>24</b>
<b>INITIATION CYCLE</b>				
<b>THIRD SEMESTER</b>				
EOD-012.1	TOPOGRAFIC ANATOMY II	3	5	5
EOD-013	DENTAL BIO-CHEMISTRY	3	3	4
EOD-014	ORAL HISTOLOGY	2	3	3
EOD-050	SCIENTIFIC RESEARCH METHOD	2	2	3
EOD-015	DENTAL OPERATIONS I	3	2	4
EOD-016	ORAL DIAGNOSIS AND TREATMENT PLANNING	2	2	3
		<b>15</b>	<b>17</b>	<b>22</b>
<b>FOURTH SEMESTER</b>				
EOD-017	ORAL MICROBIOLOGY	2	3	3
EOD-018	PERIODONTICS I	2	0	2
EOD-019	DENTAL OPERATIONS II	2	0	2
EOD-020	RADIOGRAPHIC INTERPRETATION TECHNIQUES	2	4	3
EOD-021	DENTAL MATERIALS	2	3	3
EOD-022	DENTAL ANATOMY	2	4	3
EOD-023	INTRODUCTION TO CLINIC I	0	6	2
		<b>12</b>	<b>20</b>	<b>18</b>
<b>FIFTH SEMESTER</b>				
EOD-065	HUMAN PHYSIOLOGY	3	3	4
EOD-024	ORAL SURGERY I	2	4	3
EOD-025	PERIODONTICS II	2	0	2
EOD-026	ORAL EPIDEMIOLOGY	2	2	3
EOD-027	DENTAL OPERATIONS III	2	0	2
EOD-028	OCCCLUSION I	2	2	3
EOD-029	CLINIC I (INTEGRAL DENTISTRY)	0	6	2
		<b>13</b>	<b>17</b>	<b>19</b>
<b>SIXTH SEMESTER</b>				
EOD-030	GENERAL PATHOLOGY	2	3	3
EOD-031	PHARMACOLOGY	3	3	4
EOD-032	ORAL SURGERY II	2	0	2
EOD-033	HEALTH PSYCHOLOGY	2	4	3
EOD-034	DENTAL OPERATIONS IV	2	0	2
EOD-035	ORTHODONCY I	2	2	3
EOD-036	CLINIC II (INTEGRAL DENTISTRY)	0	8	3
		<b>13</b>	<b>20</b>	<b>20</b>
<b>SEVENTH SEMESTER</b>				
EOD-037	ORAL PATHOLOGY	2	3	3
EOD-038	THERAPEUTICS FOR DENTISTRY	2	0	2
EOD-039	PERIODONTICS III	2	0	2
EOD-040	SOCIAL DENTISTRY (SCHOOL PROGRAMME)	2	4	3
EOD-041	DENTISTRY FOR CHILDREN	2	2	3
EOD-042	ENDODONTICS I	2	3	3
EOD-0080	CLINIC III (INTEGRAL DENTISTRY)	0	8	3
		<b>12</b>	<b>20</b>	<b>19</b>
<b>EIGHTH SEMESTER</b>				
EOD-044	MAXILLOFACIAL SURGERY	2	0	2
EOD-045	ORTHODONCY II	2	3	3
EOD-046	ENDODONTICS II	2	0	4
EOD-047	FIXED PROSTHESIS	2	5	5
EOD-048	TOTAL AND PARTIAL PROSTHESIS I	3	5	2
EOD-049	DIAGNOSIS AND TREATMENT PLANNING	2	0	3
EOD-043	CLINIC IV (INTEGRAL DENTISTRY)	0	8	3
		<b>13</b>	<b>21</b>	<b>21</b>
<b>NINTH SEMESTER</b>				
EOD-051	FAMILY SOCIAL DENTISTRY SEMINAR	2	4	3
EOD-052	CHILD AND ADOLESCENT SEMINAR	2	2	3
EOD-053	ENDODONTICS III: SEMINAR	2	0	2
EOD-054	DENTAL OPERATIONS	2	0	2
EOD-055	TOTAL AND PARTIAL PROSTHESIS II	3	0	2
EOD-056	DIAGNOSIS AND TREATMENT PLANNING	2	0	2
EOD-057	CLINIC II (INTEGRAL DENTISTRY)	0	12	3
		<b>12</b>	<b>16</b>	<b>17</b>
<b>TENTH SEMESTER</b>				
EOD-058	HOSPITAL DENTISTRY (APPLIED MEDICINE)	3	4	4
EOD-059	PUBLIC HEALTH SEMINAR	2	3	3
EOD-060	EXCEPTIONAL PATIENTS	2	4	3
EOD-061	INTEGRAL SEMINAR IN PROSTHESIS	3	0	3
EOD-062	DIAGNOSIS AND TREATMENT PLANNING	2	0	2
EOD-063	CLINIC II (INTEGRAL DENTISTRY)	0	0	3
		<b>12</b>	<b>11</b>	<b>18</b>
<b>CONSOLIDATION AND STRENGTHENING CYCLE</b>				
<b>ELEVENTH SEMESTER</b>				
EOD-064	PRACTICE MANAGEMENT	2	3	3
EOD-065.1	INTEGRAL PROGRAMME: TEACHING SERVICE	2	4	3
EOD-066	GERIATRIC DENTISTRY SEMINAR	2	0	2
EOD-067	TEMPOROMANDIBULAR JOINT DYSFUNCTION	2	0	2
EOD-068	DIAGNOSIS AND TREATMENT PLANNING	2	0	2
EOD-069	CLINIC III (INTEGRAL DENTISTRY)	0	16	5
		<b>10</b>	<b>23</b>	<b>17</b>
<b>TWELFTH SEMESTER</b>				
EOD-070	DENTAL IMPLANTS BASICS SEMINAR	2	0	2
EOD-071	FORENSIC DENTISTRY	2	0	2
EOD-072	DIAGNOSIS AND TREATMENT PLANNING	2	0	2
EOD-073	CLINIC III (INTEGRAL DENTISTRY)	0	24	8
		<b>6</b>	<b>24</b>	<b>14</b>
<b>TOTAL OF CREDITS</b>				<b>231</b>

REPUBLICA DE PANAMA  
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LICENCIATURA EN CIENCIAS DE ENFERMERIA

CODE	SUBJECT	BACHELOR degree level			CREDITS
		THEORY HOURS	LAB	CLINIC PRACTICE	
<b>FIRST SEMESTER</b>					
ENF-ESP	SPANISH (COMPOSITION AND ORTHOGRAPHY)	2	0	0	2
ENF-BIO	BIOLOGY	3	3	0	4
ENF-SOC	SOCIO-ANTHROPOLOGY	3	0	0	3
ENF-MAT	MATHEMATICS	3	0	0	3
ENF-001	FUNDAMENTALS OF NURSING I	4	0	4	5
ENF-018	RESEARCH METHODOLOGY I	3	0	3	4
ENF-COMP.1	COMPUTING I	2	3	0	3
ENF-ING I	ENGLISH I	4	2	0	5
		<b>24</b>	<b>8</b>	<b>7</b>	<b>29</b>
<b>SECOND SEMESTER</b>					
ENF-ANA	HUMAN ANATOMY AND PHYSIOLOGY	4	3	0	5
ENF-003	ETHICAL-LEGAL PRINCIPLES	4	0	0	4
ENF-QUI	CHEMISTRY	3	3	0	4
ENF-004	PUBLIC HEALTH NURSING I	4	0	8	6
ENF-COMP.2	COMPUTING II	2	3	0	3
ENF-ING 2	ENGLISH II	3	2	0	4
		<b>20</b>	<b>11</b>	<b>8</b>	<b>26</b>
<b>THIRD SEMESTER</b>					
ENF-MICRO	MICROBIOLOGY	3	2	0	4
ENF-FARM	PHARMACOLOGY	3	0	0	3
ENF-002	FUNDAMENTALS OF NURSING II	4	4	8	8
ENF-COM	IMAGE AND COMMUNICATION	3	0	3	4
ENF-INMU	IMMUNOLOGY	2	3	0	3
ENF-PSIC.	PSYCHOLOGY	3	0	0	3
		<b>18</b>	<b>9</b>	<b>11</b>	<b>25</b>
<b>FOURTH SEMESTER</b>					
ENF-EST	BIO-STADISTICS	3	0	0	3
ENF-005	PUBLIC HEALTH NURSING II	3	0	20	8
ENF-006	ADULT HEALTH NURSING I	3	4	4	6
ENF-PME	TEACHING METHODS AND PRINCIPLES	3	0	3	4
		<b>12</b>	<b>4</b>	<b>27</b>	<b>21</b>
<b>FIFTH SEMESTER</b>					
ENF-007	ADULT HEALTH NURSING II	4	0	8	6
ENF-008	OBSTETRICS NURSING	3	4	16	9
ENF-010	EPIDEMIOLOGY	4	0	0	4
ENF-PARA	CLINICAL PARASITOLOGY	1	2	0	2
		<b>12</b>	<b>6</b>	<b>24</b>	<b>21</b>
<b>SIXTH SEMESTER</b>					
ENF-009	PAEDIATRIC NURSING	4	0	8	6
ENF-011	MENTAL HEALTH PROBLEMS	4	4	15	11
ENF-012	GERONTOLOGY AND GERIATRIC ATTENTION	3	0	3	4
		<b>11</b>	<b>4</b>	<b>26</b>	<b>21</b>
<b>SEVENTH SEMESTER</b>					
ENF-013	GENERAL MANAGEMENT	3	0	16	7
ENF-CONT	BASIC ACCOUNTING	3	0	0	3
ENF-014	REHABILITATION NURSING	4	0	8	6
ENF-019	DIRECTED RESEARCH SEMINAR	1	3	0	2
		<b>11</b>	<b>3</b>	<b>24</b>	<b>18</b>
<b>EIGHTH SEMESTER</b>					
ENF-015	HOSPITAL MANAGEMENT	4	0	16	8
ENF-016	HEALTH MARKETING	3	0	4	4
ENF-017	WORKPLACE SAFETY	3	0	4	4
ENF-TG	GRADUATION WORK	3	0	0	0
		<b>13</b>	<b>0</b>	<b>24</b>	<b>16</b>
<b>TOTAL OF CREDITS</b>					<b>177</b>

REPUBLICA DE PANAMA  
UNIVERSIDAD LATINA  
FACULTAD DE CIENCIAS DE LA SALUD DR. WILLIAMS C. GORGAS  
LICENCIATURA EN FARMACIAS

PHARMACY STUDY PROGRAM		BACHELOR degree level		
CODE	SUBJECT	THEORY HOURS	LAB HOURS	CREDITS
<b>FIRST SEMESTER</b>				
FAR-01	GENERAL CHEMISTRY I (*)	2	3	3
FAR-02	INTRODUCTION TO MICRO-COMPUTER PROCESSING (*)	2	3	3
FAR-03	PHYSICS FOR BIOMEDICAL SCIENCES	2	3	3
FAR-04	MATHEMATICS I FOR BIOMEDICAL SCIENCES	2	3	3
FAR-05	INTENSIVE ENGLISH I: GRAMMAR-BASED	2	3	3
FAR-06	SPANISH (COMPOSITION AND ORTHOGRAPHY)	2	0	2
		<b>12</b>	<b>15</b>	<b>17</b>
<b>SECOND SEMESTER</b>				
FAR - 07	GENERAL CHEMISTRY II (*)	2	3	3
FAR - 08	MATHEMATICS II FOR BIOMEDICAL SCIENCES	2	3	3
FAR - 09	GENERAL BIOLOGY (*)	3	3	4
FAR - 10	INTENSIVE ENGLISH II	2	0	2
FAR - 11	HISTORY OF PANAMA	2	0	2
FAR - 12	INTRODUCTION TO PHARMACEUTICAL SCIENCES	3	0	3
		<b>14</b>	<b>9</b>	<b>17</b>
<b>THIRD SEMESTER</b>				
FAR - 13	PHARMACEUTICAL ORGANIC CHEMISTRY I (*)	3	3	4
FAR - 14	DRUG ANALYSIS I (*)	3	3	4
FAR - 15	BIO-STATISTICS FOR BIO-MEDICAL SCIENCES (*)	2	3	3
FAR - 16	FUNDAMENTALS OF MICROBIOLOGY (*)	3	3	4
FAR - 17	PHARMACEUTICAL INORGANIC CHEMISTRY I (*)	2	3	3
		<b>13</b>	<b>15</b>	<b>18</b>
<b>FOURTH SEMESTER</b>				
FAR - 18	PHARMACEUTICAL ORGANIC CHEMISTRY II (*)	3	3	4
FAR - 19	DRUG ANALYSIS II (*)	3	3	4
FAR - 20	PHYSICAL PHARMACY I (*)	3	3	4
FAR - 21	HISTOLOGY FOR BIO-MEDICAL SCIENCES (*)	3	3	4
FAR - 22	BIO-CHEMISTRY I: STRUCTURAL CO-RELATIONS (*)	3	3	4
FAR - 23	MEDICAL GEOGRAPHY OF PANAMA	2	3	3
		<b>17</b>	<b>18</b>	<b>23</b>
<b>FIFTH SEMESTER</b>				
FAR - 24	PHARMACEUTICAL ORGANIC CHEMISTRY III: HETEROCYCLIC CHEMISTRY (*)	3	3	4
FAR - 25	PHYSICAL PHARMACY II (*)	3	3	4
FAR - 26	BIO-CHEMISTRY II: METABOLIC ASPECTS, ENERGY AND BIO-SYNTHESIS	3	3	4
FAR - 27	INTEGRATED COURSE ON ANATOMY AND PHYSIOLOGY I (*)	3	3	4
		<b>12</b>	<b>12</b>	<b>16</b>
<b>SIXTH SEMESTER</b>				
FAR - 28	FUNDAMENTALS OF PATHOLOGY AND DIAGNOSIS I (*)	3	3	4
FAR - 29	INTEGRATED COURSE ON ANATOMY AND PHYSIOLOGY II (*)	3	3	4
FAR - 30	PHARMACOLOGY I (*)	3	3	4
FAR - 31	PHARMACOGNOSIS I: INTRODUCTION TO SECONDARY METABOLITES (*)	2	3	3
FAR - 32	PRINCIPLES OF PSYCHOLOGY AND SOCIOLOGY FOR PHARMACISTS	3	0	3
		<b>14</b>	<b>12</b>	<b>18</b>
<b>CODE</b>	<b>SUBJECT</b>	<b>THEORY HOURS</b>	<b>LAB HOURS</b>	<b>CREDITS</b>
<b>SEVENTH SEMESTER</b>				
FAR - 33	FUNDAMENTALS OF PATHOLOGY AND DIAGNOSIS II (*)	3	3	4
FAR - 34	BIO-PHARMACY (*)	2	3	3
FAR - 35	PHARMACOLOGY II (*)	3	3	4
FAR - 36	MEDICINE CHEMISTRY I	3	0	3
FAR - 37	PHARMACOGNOSIS II: PHARMACOLOGICAL ACTIVITY IN PLANTS AND RESEARCH TECHNIQUES (*)	2	3	3
		<b>13</b>	<b>12</b>	<b>17</b>
<b>EIGHTH SEMESTER</b>				
FAR - 38	PHARMACOLOGY III (*)	3	3	4
FAR - 39	MEDICINE CHEMISTRY II	3	0	3
FAR - 40	PHARMACOKINETICS (*)	3	3	4
FAR - 41	PHARMACEUTICAL CENTRE MANAGEMENT I: COMMUNITY PHARMACY	3	0	3
FAR - 42	PHARMACEUTICAL TECHNOLOGY I (*)	3	3	4
		<b>15</b>	<b>9</b>	<b>18</b>
<b>NINTH SEMESTER</b>				
FAR - 43	FUNDAMENTALS OF TOXICOLOGY (*)	2	3	3
FAR - 44	PHARMACEUTICAL CENTRE MANAGEMENT II	3	0	3
FAR - 45	TECNOLOGIA FARMACEUTICA II (*)	3	3	4
FAR - 46	PHARMACEUTICAL TECHNOLOGY II (*)	3	3	4
		<b>11</b>	<b>9</b>	<b>14</b>
<b>TENTH SEMESTER</b>				
FAR - 47	PHYSIOPATHOLOGY AND PHARMACOTHERAPY II (*)	3	3	4
FAR - 48	PHARMACY PRACTICE I (**)	0	9	3
FAR - 49	PHARMACY ETHICS AND LEGISLATION	2	0	2
FAR - 50	EPIDEMIOLOGY AND PUBLIC HEALTH	2	0	2
		<b>7</b>	<b>12</b>	<b>11</b>
<b>ELEVENTH SEMESTER</b>				
FAR - 51	PHARMACY PRACTICE II (**)	0	9	3
FAR - 52	SALES AND MARKETING I: FUNDAMENTALS (**)	2	3	3
FAR - 53	INTRODUCTION TO DRUG DESIGN	3	0	3
FAR - 54	GRADUATION SEMINAR I	2	0	2
		<b>7</b>	<b>12</b>	<b>11</b>
<b>CODE</b>	<b>SUBJECT</b>	<b>THEORY HOURS</b>	<b>LAB HOURS</b>	<b>CREDITS</b>
<b>TWELFTH SEMESTER</b>				
FAR - 55	HOSPITAL PHARMACY (**)	2	3	3
FAR - 56	SALES AND MARKETING II: MEDICAL VISITING (**)	2	3	3
FAR - 57	MEDICAL EMERGENCY FOR PHARMACISTS (**)	1	3	2
FAR - 58	GRADUATION SEMINAR II	2	0	2
		<b>7</b>	<b>9</b>	<b>10</b>
<b>TOTAL OF CREDITS</b>				<b>190</b>

Courses marked with (\*) include the corresponding lab, those marked with (\*\*) include workshops or practical time

REPUBLICA DE PANAMA  
UNIVERSIDAD LATINA  
FACULTAD DE CIENCIAS DE LA SALUD DR. WILLIAMS C. GORGAS  
LICENCIATURA EN BIOTECNOLOGIA

BIO-TECHNOLOGY STUDY PROGRAM		BACHELOR degree level		
CODE	SUBJECT	THEORY HOURS	PRACTICAL HOURS	CREDITS
<b>FIRST SEMESTER</b>				
LB - 001	CELL BIOLOGY	3	3	4
LB - 002	INORGANIC CHEMISTRY	3	3	4
LB - 003	MATHEMATICS I	3	3	4
LB - 004	INTRODUCTION TO BIO-TECHNOLOGY	3	0	3
LB - COM.1	COMPUTING I	2	3	3
LB - ING.1	ENGLISH I	2	3	3
ESP01	SPANISH	2	0	2
		<b>18</b>	<b>15</b>	<b>23</b>
<b>SECOND SEMESTER</b>				
LB - 005	ORGANIC CHEMISTRY I	3	3	4
LB - 006	MOLECULAR BIOLOGY	3	3	4
LB - 003.1	MATHEMATICS II	3	3	4
LB - EST	BIO-STATISTICS	3	3	4
LB - COM.2	APPLIED COMPUTING	2	3	3
LB - ING.2	ENGLISH II	2	3	3
HIST01	HISTORY OF PANAMA	2	0	2
		<b>18</b>	<b>18</b>	<b>24</b>
<b>THIRD SEMESTER</b>				
LB - 008	ORGANIC CHEMISTRY II	3	3	4
LB - 009	GENERAL MICRO-BIOLOGY	3	3	4
LB - 010	ANALYTICAL CHEMISTRY	3	3	4
LB - 011	GENETICS	3	3	4
LB - 012	SCIENTIFIC RESEARCH METHOD	3	3	4
		<b>15</b>	<b>15</b>	<b>20</b>
<b>FOURTH SEMESTER</b>				
LB - 013	BIO-CHEMISTRY I	3	3	4
LB - 014	APPLIED MICRO-BIOLOGY	4	6	6
LB - 015	MICRO-ORGANISM PHYSIOLOGY	4	3	5
LB - 016	MICROBIAL GENETICS	4	6	6
LB - 017	BIO - COMPUTER SYSTEMS	2	3	3
LB - 018	BIO-ETHICS	3	0	3
		<b>20</b>	<b>21</b>	<b>27</b>
<b>FIFTH SEMESTER</b>				
LB - 019	APPLIED MICRO-BIOLOGY II	4	6	6
LB - 020	BIO-CHEMISTRY II	3	3	4
LB - 021	IMMUNOLOGY	3	3	4
LB - 022	BIO-SECURITY	3	3	4
LB - 023	PROJECT MANAGEMENT AND EVALUATION	3	3	4
		<b>16</b>	<b>18</b>	<b>22</b>
<b>SIXTH SEMESTER</b>				
LB - 024	GENETIC ENGINEERING	4	6	6
LB - 025	BIO-CHEMISTRY III	4	6	6
LB - 026	VIROLOGY	4	6	6
LB - 027	INDUSTRIAL MICRO-BIOLOGY	3	6	5
LB - 028	ANIMAL PHYSIOLOGY	3	3	4
		<b>18</b>	<b>27</b>	<b>27</b>
CODE	SUBJECT	THEORY HOURS	PRACTICAL HOURS	CREDITS
<b>SEVENTH SEMESTER</b>				
LB - 029	QUALITY CONTROL IN BIO-TECHNOLOGY	3	3	4
LB - 030	FOOD MICRO-BIOLOGY	4	6	6
LB - 031	BIO-TECHNOLOGY ENGINEERING	3	3	4
LB - 032	PLANT PHYSIOLOGY	3	3	4
		<b>13</b>	<b>15</b>	<b>18</b>
<b>EIGHTH SEMESTER</b>				
LB - 033	TOXICOLOGY	3	3	4
LB - 034	HISTOLOGICAL TECHNIQUES	3	3	4
LB - 035	AGRICULTURAL MICRO-BIOLOGY	3	3	4
LB - 036	ANIMAL MICRO-BIOLOGY	3	3	4
LB - 037	WASTE MANAGEMENT	3	3	4
		<b>15</b>	<b>15</b>	<b>20</b>
<b>NINTH SEMESTER</b>				
LB - 038	PROFESSIONAL PRACTICE I	*	40	5
		<b>0</b>	<b>40</b>	<b>5</b>
<b>TENTH SEMESTER</b>				
LB - 039	PROFESSIONAL PRACTICE II	**	40	5
		<b>0</b>	<b>40</b>	<b>5</b>
<b>TOTAL OF CREDITS</b>				<b>191</b>



REPUBLICA DE PANAMA  
UNIVERSIDAD LATINA  
FACULTAD DE CIENCIAS DE LA SALUD DR. WILLIAMS C. GORGAS  
TECNICO EN INSTRUMENTACION QUIRURGICA

CODE	SUBJECT	BACHELOR degree level		CREDITS
		THEORY HOURS	PRACTICAL HOURS	
<b>FIRST SEMESTER</b>				
	CELL BIOLOGY	2	6	4
	GENERAL CHEMISTRY	2	6	4
	PHYSICS	2	6	4
	HUMAN ANATOMY AND PHYSIOLOGY	2	6	4
	INTRODUCTION TO SURGICAL INSTRUMENTATION	2	6	4
		<b>10</b>	<b>30</b>	<b>20</b>
<b>SECOND SEMESTER</b>				
	NURSING PRINCIPLES	2	6	4
	SURGICAL INSTRUMENTATION TECHNIQUES I	2	6	4
	RESEARCH METHODOLOGY	2	4	3
	MICRO-BIOLOGY	2	6	3
	STERILISATION PRINCIPLES I	2	6	4
	MEDICAL TERMINOLOGY	2	0	2
		<b>12</b>	<b>28</b>	<b>20</b>
<b>THIRD SEMESTER</b>				
	STERILISATION PRINCIPLES II	1	3	2
	ANAESTHESIA	1	3	2
	SURGICAL INSTRUMENTATION TECHNIQUES II	4	6	6
	HOSPITAL PRACTICE I	0	22	7
		<b>6</b>	<b>34</b>	<b>17</b>
<b>FOURTH SEMESTER</b>				
	ENGLISH	2	2	3
	HOSPITAL SETTING	2	4	3
	SURGICAL INSTRUMENTATION TECHNIQUES III	4	6	6
	HOSPITAL PRACTICE II	0	20	7
		<b>8</b>	<b>32</b>	<b>19</b>
<b>FIFTH SEMESTER</b>				
	PSYCHOLOGY	3	0	3
	SPECIAL EQUIPMENT MANAGEMENT AND CARE	2	6	3
	SURGICAL INSTRUMENTATION TECHNIQUES IV	3	6	5
	HOSPITAL PRACTICE III	0	20	7
		<b>8</b>	<b>32</b>	<b>18</b>
<b>SIXTH SEMESTER</b>				
	OCCUPATIONAL AND PUBLIC HEALTH	2	0	2
	BIO-ETHICS	2	0	2
	HOSPITAL PRACTICE IV	0	36	12
		<b>4</b>	<b>36</b>	<b>16</b>

**UNIVERSIDAD LATINA**  
**FACULTY OF HEALTH SCIENCE DR. WILLIAM C. GORGAS**  
**SYLLABUS OF MEDICINE (Modified)**

BACHELOR degree level  
**BASIC CYCLE**

FIRST SEMESTER		T.H./S	P. H./S	HTS	No./S	CREDITS	PRE-REQUISITES
EMC-001	INORGANIC CHEMISTRY	3	3	6	16	4	SECONDARY SCHOOL DEGREE
EMC-002	CELL AND MOLECULAR BIOLOGY	3	6	9	16	6	SECONDARY SCHOOL DEGREE
EMC-003	BIO-PHYSICS	4	6	10	16	6	SECONDARY SCHOOL DEGREE
EMC-004	MEDICAL BIBLIOGRAPHY	1	3	4	16	2	SECONDARY SCHOOL DEGREE
EMC-005	BIO-STATISTICS	3	3	6	16	4	SECONDARY SCHOOL DEGREE
GRADUATION REQUISITES (ENGLISH, COMPUTING) LEARNING TECHNIQUES							ENTRY ASSESSMENT
		14	21	35		22	
SECOND SEMESTER		T.H./S	P. H./S	HTS	No./S	CREDITS	PRE-REQUISITES
EMC-006	DEMOGRAPHICS	2	0	2	16	2	BIO-STATISTICS
EMC-007	MEDICAL SOCIOLOGY	5	0	5	16	5	SECONDARY SCHOOL DEGREE
EMC-008	RESEARCH METHODOLOGY	3	3	6	16	4	BIO-STATISTICS
EMC-009	ORGANIC CHEMISTRY	3	3	6	16	4	INORGANIC CHEMISTRY
EMC-010	MEDICAL PSYCHOLOGY	2	0	2	16	2	SECONDARY SCHOOL DEGREE
EMC-011	ANTHROPOLOGY	3	0	3	16	3	SECONDARY SCHOOL DEGREE
EMC-012	MEDICAL ETHICS	1	3	4	16	2	
		19	9	28		22	
THIRD SEMESTER		T.H./S	P. H./S	HTS	No./S	CREDITS	PRE-REQUISITES
EMC-013	HUMAN BIO-CHEMISTRY I	4	6	10	16	6	ORGANIC CHEMISTRY
EMC-014	HUMAN ANATOMY I	4	6	10	16	6	BIOLOGY, BIO-PHYSICS
EMC-015	HUMAN EMBRYOLOGY	2	2	4	16	3	BIOLOGY
EMC-016	MEDICAL HISTOLOGY I	4	6	10	16	6	BIOLOGY
EMC-017	HUMAN NEURO-ANATOMY	3	2	5	16	4	BIOLOGY
EMC018	HISTORY OF MEDICINE	1	0	1	16	1	SECONDARY SCHOOL DEGREE
		18	22	40		26	
FOURTH SEMESTER		T.H./S	P. H./S	HTS	No./S	CREDITS	PRE-REQUISITES
EMC-019	HUMAN BIO-CHEMISTRY II	3	6	9	16	5	BIO-CHEMISTRY HUMAN I
EMC-020	HUMAN ANATOMY II	3	6	9	16	5	HUMAN ANATOMY I
EMC-021	MEDICAL HISTOLOGY II	3	6	9	16	5	MEDICAL HISTOLOGY I
EMC-022	MEDICAL MICRO-BIOLOGY	3	6	9	16	5	BIOLOGY CELLULAR Y MOLEC.
EMC-023	EPIDEMIOLOGY I	2	4	6	16	4	DEMOGRAPHY
		14	28	42		24	
FIFTH SEMESTER		T.H./S	P. H./S	HTS	No./S	CREDITS	PRE-REQUISITES
EMC-024	MEDICAL PARASITOLOGY	3	6	9	16	5	BIOLOGY CELLULAR Y MOLEC.
EMC-025	HUMAN PHYSIOLOGY I	4	6	10	16	6	ANATOMY HUMAN I Y BIOQUIM.
EMC-026	MEDICAL PHARMACOLOGY I	3	6	9	16	5	BIO-CHEMISTRY
EMC-027	HUMAN PATOLOGY	5	9	14	16	8	HUMAN ANATOMY
		15	27	42		24	
SIXTH SEMESTER		T.H./S	P. H./S	HTS	No./S	CREDITS	PRE-REQUISITES
EMC-028	HUMAN PHYSIOLOGY II	4	6	10	16	6	HUMAN PHYSIOLOGY I
EMC-029	MEDICAL PHARMACOLOGY II	3	6	9	16	5	BIO-CHEMISTRY
EMC-030	PSYCHO-PATHOLOGY	2	0	2	16	2	MEDICAL PSYCHOLOGY
EMC-031	NUTRITION	2	0	2	16	2	BIO-CHEMISTRY
EMC-032	MEDICAL IMMUNOLOGY	2	3	5	16	3	BIO-CHEMISTRY
EMC-033	PHYSICAL-PATHOLOGY	3	6	9	16	5	PHYSIOLOGY
		16	21	37		23	
SEVENTH SEMESTER		H.T./ WEEK	H.C./ WEEK	# WEEK	THC/WEEK	CREDITS	PRE-REQUISITES
EMC-034	CLINICAL PROPAEDEUTIC	3	24	6	144	6	HUMAN PATOLOGY
EMC-035	LEGAL MEDICINE	2	0	0		2	PHYSIO-PATHOLOGY
EMC-036	PSYCHIATRY	5	24	6	144	8	PSYCHO-PATHOLOGY
EMC-037	IMAGENOLOGY	2	12	4	48	3	HUMAN ANATOMY
EMC-038	EPIDEMIOLOGY II	2	2	16	32	3	EPIDEMIOLOGY I
		14	62		368	22	
EIGHTH SEMESTER		H.T./ WEEK	H.C./ WEEK	# WEEK	THC/WEEK	CREDITS	PRE-REQUISITES
EMC-039	CLINICAL HAEMATOLOGY	2	24	2	48	3	PHYSIO-PATHOLOGY
EMC-040	INTERNAL MEDICINE I	5	24	6	144	8	PROPAEDEUTIC
EMC-041	NEUMOLOGY	2	24	2	48	3	PROPAEDEUTIC
EMC-042	DERMATOLOGY	2	24	2	48	3	PROPAEDEUTIC
EMC-043	PUBLIC HEALTH	3	24	2	48	4	EPIDEMIOLOGY I
EMC-044	CARDIOLOGY	3	24	2	48	4	PROPAEDEUTIC
		17	144		384	25	
NINTH SEMESTER		H.T./ WEEK	H.C./ WEEK	# WEEK	THC/WEEK	CREDITS	PRE-REQUISITES
EMC-045	OBSTETRICS	5	36	4	144	8	INTERNAL MEDICINE I
EMC-046	GENERAL SURGERY	5	24	6	144	8	INTERNAL MEDICINE I
EMC-047	PAEDIATRICS I	5	24	6	144	8	INTERNAL MEDICINE I
		15	84		432	24	
TENTH SEMESTER		H.T./ WEEK	H.C./ WEEK	# WEEK	THC/WEEK	CREDITS	PRE-REQUISITES
EMC-048	GINECOLOGY	3	24	4	96	5	GENERAL SURGERY
EMC-049	ORTHOPAEDIA AND TRAUMATOLOGY	3	24	3	72	5	GENERAL SURGERY
EMC-050	OTORRINOLARINGOLOGY	2	24	1	24	2	GENERAL SURGERY
EMC-051	INTERNAL MEDICINE II	4	24	4	96	6	INTERNAL MEDICINE I
EMC-052	PAEDIATRICS II	3	24	4	96	5	PAEDIATRICS I
		15	24		384	23	
ELEVENTH SEMESTER		H.T./ WEEK	H.C./ WEEK	# WEEK	THC/WEEK	CREDITS	PRE-REQUISITES
EMC-053	CO-RELATIVE IMAGENOLOGY **	2	24	4	96	3	IMAGENOLOGY
EMC-054	THERAPEUTICS	2	0	0		2	INTERNAL MEDICINE II
EMC-055	OPHTHALMOLOGY ***	2	24	2	48	3	SURGERY
EMC-056	UROLOGY ***	2	24	2	48	3	SURGERY
EMC-057	NEUROLOGY AND NEURO-SURGERY ***	3	24	4	96	4	INTERNAL MEDICINE
EMC-058	EMERGENCY MEDICINE***	4	24	4	96	6	MEDICINE I
EMC-059	FAMILY AND COMMUNITY MEDICINE	3	24	4	96	5	PUBLIC HEALTH
EMC-060	HEALTH MANAGEMENT *	3	0	0		3	PUBLIC HEALTH
		21	144		480	29	
TWELFTH		H.P.S./ WEEK	WEEK	THP/WEEK	CREDITS	PRE-REQUISITES	
EMC-061	HOSPITAL PRACTICE	45	16	720	9		
EMC-062	GENERAL EXAM PREPARATION FOR INTEGRATION INTO THE CLINICAL CYCLE **	SEMINAR	16		0	REGULAR COURSES CONCLUSION	
EMC-063	ENGLISH MEDICAL LITERATURE **	SEMINAR	16		0		
		45	16	720	9		

TOTALS	H.T./S	H.P./S	HP/SEM	CR.
	178	727	2760	273

H.T/S = Theory hours per WEEK  
H.P/S = Practical hours per WEEK  
HP/Sem = Practical hours per SEMESTER  
Cr = CREDITS

*Universidad Latina de Panamá*  
*Dr William C Gorgas School of Medicine*  
*Periodo 1-2010*

**Degree: MASTERS IN EPIDEMIOLOGY AND TROPICAL MEDICINE**  
**With Especialization in: MICROBIOLOGY**

Code	Subject	Program of Study	
			Credits
<b>SEMESTRE 1</b>			
MEIPT001	Infectios & Parasitological Diseases I		5
MEIPT002	Biostatistics and Informatics		2
MEIPT003	Graduate Seminar		1
<b>SEMESTRE 2</b>			
MEIPT004	Parasithology		3
MEIPT005	Microbiology		3
MEIPT006	Immunology & Infectios & Parasitological Diseases		3
<b>SEMESTRE 3</b>			
MEIPT0011	Infectios & Parasitological Diseases II		2
MEIPT007	Molecular biotechnology		2
MEIPT008	Scientific Research Methodology		2
MEIPT009	Epidemiology of Infectios Parasitic Diseases		2
<b>SEMESTRE 4</b>			
MEIPT010	Healthcare Management		2
MEIPT011	Guided Research		3
MEIPT012	Immunology and Micro pathegenis		2
		<b>13</b>	<b>32</b>
		<b>Subjects</b>	<b>Credits</b>

\*\*\*\*\* The end of the Program of Studies \*\*\*\*\*

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Universidad Latina de Panamá  
Dr William C Gorgas School of Medicine  
Periodo 1-2010

**Degree MASTER'S IN HEALTHCARE MANAGEMENT**

**Program of Study**

Code	Subject	Credits
<b>SEMESTRE 1</b>		
MGSS-001	FUNDAMENTALS OF PUBLIC HEALTH MANAGEMENT	2
MGSS-002	EPIDEMIOLOGY Y DEMOGRAFY FOR MANAGEMENT	2
MGSS-003	STATISTICS FOR HEALTH MANAGEMENT	2
MGSS-004	GENERAL ADMINISTRATION	3
MGSS-005	HEALTH PLANNING	2
*** MGSS016	ENGLISH FOR BUSINESS PURPOSES	0
*** MGSS017	IT FOR SANITARY MANAGEMENT	0
<b>SEMESTRE 2</b>		
MGSS-006	HEALTH SERVICES MANAGEMENT	2
MGSS-007	HUMAN RESOURCE MANAGEMENT IN HEALTHCARE	2
MGSS-008	ECONOMICS AND FINANCE MANAGEMENT IN HEALTHCARE	2
MGSS-009	PROJECT MANAGEMENT & EVALUATION IN HEALTHCARE	2
MGSS-010	RESEARCH METHODOLOGY	2
<b>SEMESTRE 3</b>		
MGSS-011	SEMINAR IN GUIDED RESEARCH	2
MGSS-012	HOSPITAL MANAGEMENT AND AMBULATORY SERVICES	2
MGSS-013	ENVIRONMENTAL MANAGEMENT	2
MGSS-014	LEGAL FRAMEWORK IN HEALTHCARE	2
MGSS-015	EPIDEMIOLOGY AND HEALTH SERVICES MANAGEMENT	2
MGSS-016	INFORMATION SYSTEMS IN HEALTHCARE MEDICINE	2
MGSS-118	THESIS	0

19: Subject 33 Credits

\*\*\*\*\* The End of the Program of Study \*\*\*\*\*

\*\* Optional Courses

\*\*\* Graduation Requirement

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**UNIVERSIDAD LATINA DE PANAMÁ**  
**Master of Science in Applied Microbiology**  
**PLAN DE ESTUDIO**

No.	ABREV.	CODE	COURSE	HOURS			CREDITS	PRE-REQUISITES
				THEORY	PRACTICE	TOTAL HRS		
1	B.Cel.Mol	MMA-001	Celular & Molecular Biology	2	3	5	3	BSC, Exam Adm.
2	Bqm.Ap.	MMA-002	Applied Biochemistry	2	3	5	3	MMA-001
3	Mic.Aplic	MMA-003	Applied Microbiology	2	3	5	3	MMA-002
4	Mic. AA	MMA-004	Environmental and Water Microbiology	2	3	5	3	MMA-003
5	Mic.Al	MMA-005	Food Microbiology	2	3	5	3	MMA-004
6	Biopro	MMA-006	Bioprocesses	2	3	5	3	MMA-005
7	Cult.Tej	MMA-007	Tissue Cultures	2	3	5	3	MMA-006
8	Mic.Cli	MMA-008	Clinical Microbiology	2	3	5	3	MMA-007
9	Mic.Ind	MMA-009	Industrial Microbiology	2	3	5	3	MMA-008
10	Inm.Apl	MMA-010	Applied Immunology	2	3	5	3	MMA-009
11	Cont.Cal	MMA-011	Quality Control	2	3	5	3	MMA-010
12	Ing.Biot	MMA-012	Biotechnical Engineering	2	3	5	3	MMA-011
	CapIng	MMA-013	English Proficiency	Graduation Requirements				
	Tra.Gra	MMA-014	Graduation Work	Graduation Requirements				MMA-012
			<b>TOTAL</b>	24	36	60	<b>36</b>	

*Universidad Latina de Panamá*  
*Dr William C Gorgas School of Medicine*  
*Periodo 1-2010*

**Degree: *Master's in Hospital Management***

<i>Study Program</i>			
Code	Subject	Credits	Pre-requisites
<b>SEMESTRE 1</b>			
PGH001	HOSPITAL STATISTICS	2	
PGH002	HEALTH ECONOMY	2	
PGH003	EPIDEMIOLOGY AND DEMOGRAPHICS	2	
PGH004	SOCIAL ASPECTS OF PUBLIC HEALTH	2	
PGH005	PRINCIPALS AND FUNDAMENTALS OF ADMINISTRATION	2	
PGH006	RESEARCH METHODOLOGY	2	
<b>SEMESTRE 2</b>			
PGH007	MODELS AND CONCEPTS OF HOSPITAL MANAGEMENT	2	
PGH008	HOSPITAL AND COMMUNITY RELATIONS	2	
PGH009	STRATEGIC HOSPITAL MANAGEMENT	2	
PGH010	MANAGEMENT OF AUXILIARY SERVICES	2	
PGH011	MANAGEMENTS OF TECHNICAL AND AUXILIARY SERVICES	2	
PGH012	PROJECT EVALUATION AND MANAGEMENT	2	
<b>12</b> Subject		<b>24</b> Credits	
***** <b>THE END OF THE PROGRAM OF STUDY</b> *****			