CURRICULUM PLAN

B.S Respiratory Therapy Program

With the technological and scientific advances that have impacted the health-care industry, the traditional on-the-job training for respiratory practice no longer serves as a suitable educational pathway for the respiratory therapist (RT). The knowledge and skills required for the RT have increased, developing into an extensive, comprehensive body of information. RTs have become indispensable elements of the health-care team. The main objective of the RT program is to provide students with a sound base of knowledge and skills so that they can safely and effectively deliver respiratory care. The curriculum is designed to promote both the personal and the professional growth of the student. It is divided into three structured components: basic and social sciences, professional, including theoretical concepts, and scientific methodology; and practical clinical experience. RTs will be prepared to perform their tasks with competence, relying on a sound knowledge base that will permit them to evaluate patient needs and make appropriate decisions. Students are also taught to maintain the highest standards of practice and ethics, while engaging in on-going learning by participating in and conducting research to promote evidence-based practice.

At the end of the program, the student will be able to:

1. Apply methods and techniques of data collection and patient assessment;
2. Utilize universal precautions in all invasive and noninvasive patient-care procedures;
3. Apply and evaluate emergency and chronic airway-management techniques;
4. Demonstrate skill in the application and monitoring of oxygen, specialized gas mixtures and auxiliary respiratory equipment;
5. Perform and interpret blood gas analysis and associated clinical cardiopulmonary physiology determinations;
6. Apply and monitor lung expansion modalities, chest physical therapy and drainage techniques;
7. Perform and monitor invasive and non-invasive assisted ventilation devices.
8. Implement advance resuscitation modalities and appropriate reanimation procedures to adult, pediatric and neonatal patients.
9. Operate and evaluate cardiopulmonary rehabilitation programs;

10. Participate in the implementation and evaluation of research activities.

B.S.I: Respiratory Therapy

A. First Semester (Fall): Duration = 16 Weeks

Course Title			Credit hrs/ Semester	Lecture hrs/ Week	Lecture hrs/ Semester	Clinical hrs/ Semester
BSCS	160	Anatomy/Physiology I	4	4	64	-
BSCS	162	Microbiology	3	3	48	-
BPHS	184	Theory of Equipment/RT	3	3	48	-
RTPT	182	Introduction to RT	3	3	48	-
HUMS	165	Int. to Sociology	3	3	48	-
HUMS	166	Int. to Psychology	3	3	48	-
ENGL	003	English Language I	3	3	48	-
		TOTAL	**22**	**22**	**352**	-

B. Second Semester (Spring): Duration = 16 Weeks

BSCS	161	Anatomy/Physiology II	4	4	64	-
RTPY	183	Pulmonary Physiology	2	2	32	-
BPHS	164	Biophysics	3	3	48	-
RTPY	185	Physiological Chemistry	4	4	64	-
ENGL	004	English Language II	3	3	48	-
ELEC	168	Law and Legislation	2	2	32	-
		TOTAL	**18**	**18**	**288**	-

C. Summer Session: Duration = 8 Weeks

ENGL	167	Communication Skills	2	4	32	-
RTPY	186	Practicum: RT Unit	3	-	-	144
		TOTAL	**5**	**4**	**32**	**144**

B.S.II: Respiratory Therapy

A. First Semester (Fall): Duration = 16 weeks

Course Title			Credit hrs/ Semester	Lecture hrs/ Week	Lecture hrs/ Semester	Clinical hrs/ Semester
PATH	220	Pathophysiology I	4	4	64	-
RTPY	222	Diagnostic Procedures I	3	3	48	-
RTPY	224	Mechanical Ventilation I	4	4	64	-
PHRM	209	Pharmacology	4	4	64	-
ELEC	210	Cultural Studies	2	2	32	-
RTPY	230	Practicum: RT Unit	4	-	-	192
		TOTAL	**21**	**17**	**272**	**192**

B. Second Semester (Spring): Duration = 16 Weeks

PATH	221	Pathophysiology II	4	4	64	-
RTPY	223	Diagnostic Procedures II	3	3	48	-
RTPY	225	Mechanical Ventilation II	4	4	64	-
BIOS	206	Biostatistics/Epidemiology	3	2	32	32
RTPY	231	Practicum: RT Unit	4	-	-	192
		TOTAL	**18**	**13**	**208**	**224**

C. Summer Session: Duration = 8 Weeks

RTPY	216	Anesthesia and Drugs	2	4	32	-
RTPY	232	Practicum: RT Unit	4	-	-	192
		TOTAL	**6**	**4**	**32**	**192**

B.S.III: Respiratory Therapy

A. First Semester (Fall): Duration = 16 weeks

Course Title			Credit hrs/ Semester	Lecture hrs/ Week	Lecture hrs/ Semester	Clinical hrs/ Semester
RTPY	301	Clinical Seminars I	2	2	32	-
RESH	310	Research Methodology	2	3	32	-
RTPY	303	Therapeutic Modalities	3	3	48	-
RTPY	304	Practicum: RT Unit	7	-	-	366
		TOTAL	**14**	**8**	**112**	**366**

A. Second Semester (Spring): Duration = 16 Weeks

RTPY	302	Clinical Seminars II	2	2	32	-
NUTN	207	Nutrition	3	3	48	-
HSAD	311	Health Service Administration	2	2	32	-
HCE	312	Health Care Economics	2	2	32	-
RTPY	305	Practicum: RT Unit	8	-	-	400
		TOTAL	**17**	**9**	**144**	**400**

Total number of credits = 121 credits
Total number of theoretical hours = 1440 hours
Total number of clinical training hours = 1518 hours.

KEY: 1 Credit is equivalent to: 1 hour theory
2 hours lab
3 hours practicum