

2nd Semester		AAS	C
INST 215	Renewable Energy AC and DC Machines	3	3
RENG 150	Modeling with Google SketchUp	3	3
RENG 220	Photovoltaic Theory and System Design	4	4
RENG 243	Photovoltaic Installation and NEC II	3	3
RENG 243L	Photovoltaic Installation and the NEC II Lab	2	2
RENG 260	Solar Thermal Design and Application	3	3
	<b>Total</b>	<b>18</b>	<b>18</b>
	<b>Total Credits</b>	<b>66</b>	<b>43</b>

\*Prerequisites before enrolling in the one year certificate program.

## RESPIRATORY THERAPY

### Associate of Applied Science

This is an associate degree program that prepares students with the knowledge, clinical, and behavioral skills essential to providing competent and caring services consistent with community and employer expectations. Students acquire skills in patient assessment, clinical data evaluation, blood gas analysis, pulmonary function testing, therapeutic techniques, emergency and critical care management, pulmonary rehabilitation and home care, and other special cardiopulmonary procedures.

The Respiratory Therapy program, NM, holds a Letter of Review from the Commission on Accreditation for Respiratory Care (CoARC) ([www.coarc.com](http://www.coarc.com)). Phone: (817) 283-2835  
Address: Commission on Accreditation for Respiratory Care  
1248 Harwood Road, Bedford, Texas 76021-4244

Admission Requirements:

Admission into the program is limited and competitive. The Respiratory Therapy admissions scoring criteria will be used in the selection process. An applicant must have a high school diploma or equivalent. The criteria includes the following:

A. Prerequisites: (45%)

BIOL 121	Introductory Biology I	4
CHEM 110	Introductory Chemistry	4
MATH 114	Math for Health Careers*	3
ENGL 111	Freshman Composition	3
COMM 110	Public Speaking <b>-OR-</b>	
COMM 111	Interpersonal Communications	3

\*Intermediate Algebra taken by an applicant before may be considered.

B. Admissions Test (20%)

Health Occupations Admission Test (HOAT) is the prescribed admissions test.

Other tests will be considered such as TEAS or HOBET. Applicants who have completed and earned an associate degree or higher are not required to take the admissions test.

C. Recommendations, previous education and training, CPR, work experience, and job shadowing (35%)

D. Criminal Background Check, Immunization Record/ Health Certificate, and Drug Screen

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<b>Program Prerequisites</b>		<b>Credits</b>
BIOL 121	Introductory Biology	4
MATH 114	Math for Health Careers	3
CHEM 110	Introductory Chemistry	4
ENGL 111	Freshman Composition	3
COMM 110	Public Speaking <b>OR</b>	
COMM 111	Interpersonal Communication	3
	<b>Total</b>	<b>17</b>
<b>1st Semester</b>		<b>Credits</b>
COSC 125	Business Microcomputer Applications	3
BIOL 252	Human Anatomy and Physiology I	4
RESP 112	Community Health & Infection Control	3
RESP 110	RT Orientation & Patient Assessment	3
RESP 114	Respiratory Physics & Medical Gas Therapy	3
	<b>Total</b>	<b>16</b>
<b>2nd Semester</b>		<b>Credits</b>
BIOL 253	Human Anatomy and Physiology II	4
RESP 116	Cardiopulmonary Pharmacology	3
RESP 118	Diagnostic and Therapeutic Techniques	5
ENGL 211	Advanced Composition <b>OR</b>	
ENGL 218	Advanced Technical Composition	3
	<b>Total</b>	<b>15</b>
<b>3rd Semester</b>		<b>Credits</b>
RESP 126	Clinical Practicum I	5
RESP 128	Clinical Simulation I	1
RESP 120	Cardiopulmonary Pathophysiology	3
RESP 122	Critical Care Management	4
RESP 124	Special Procedures in Respiratory Care	2
	<b>Total</b>	<b>15</b>
<b>4th Semester</b>		<b>Credits</b>
RESP 226	Clinical Practicum II	5
RESP 228	Clinical Simulation II	1
RESP 220	Respiratory Seminar I	2
RESP 222	Neonatal and Pediatric Respiratory Care	4
PSYC 120	Introduction to Psychology	3
	<b>Total</b>	<b>15</b>
<b>5th Semester</b>		<b>Credits</b>
RESP 240	Clinical Practicum III	5
RESP 238	Clinical Simulation III	1
RESP 230	Respiratory Seminar II	3
RESP 232	Pulmonary Rehabilitation and Home Care	2
RESP 236	Ethics, Management and Wellness Promotion	2
	<b>Total</b>	<b>13</b>
	<b>Total Credits</b>	<b>74</b>