

MAJOR SEQUENCE AND DEGREE REQUIREMENTS

Major: **BS BIOLOGY**

Option: **RESPIRATORY THERAPY**

Major Field Requirements: **53.0 credits**

Other Requirements: **28.0 - 31.0 credits**

When applicable, up to six of the **REQUIRED RELATED** courses may be credited toward the Liberal Arts Core subject to normal distribution rules.

Course No.	Short Title	C.H.	Grade	Q.P.	Course No.	Short Title	C.H.	Grade	Q.P.					
REQUIRED BIOLOGY COURSES (17.0 credits)					REQUIRED RELATED (28.0 - 31.0 credits)									
BIOL	211	Concepts of Zoology	4.0	___	___	Chemistry (16.0 credits)								
BIOL	257	Intro Allied Health	1.0	___	___	CHEM	111	Intro to Chem I	4.0	___	___			
BIOL	263	Cell Biology	4.0	___	___	CHEM	112	Intro to Chem II	4.0	___	___			
BIOL	356	Funct. Hum. Anatomy	5.0	___	___	CHEM	235	Organic Chem	4.0	___	___			
BIOL	461	General Microbiology	3.0	___	___	CHEM	326	Biochemistry I	4.0	___	___			
CLINICAL I COURSEWORK (36.0 credits)					Mathematics (4.0 - 5.0 credits)									
RESP	410	Acute C-P Care	2.0	___	___	MATH	161	Calculus I	4.0	___	___			
RESP	411	Resp Care I	2.0	___	___	---- or ----								
RESP	412	Prin Aerosol	3.0	___	___	MATH	163	Honors Calculus	5.0	___	___			
RESP	413	Resp Assessment	4.0	___	___	Physics (8.0 - 10.0 credits)								
RESP	414	Resp Care II	3.0	___	___	PHYS	131	Physics I with Algebra	4.0	___	___			
RESP	415	Tech Mech Vnt	3.0	___	___	PHYS	132	Physics II with Algebra	4.0	___	___			
RESP	417	Resp Care III	3.0	___	___	---- or ----								
RESP	420	Arterial Bld Gas	3.0	___	___	PHYS	231	Phys I with Calculus	5.0	___	___			
RESP	421	Phys Mech Vnt	2.0	___	___	PHYS	232	Phys II with Calculus	5.0	___	___			
RESP	422	Pharmacology	3.0	___	___	Suggested Additional Courses (no minimum)								
RESP	423	Infectious Diseases	2.0	___	___	BIOL	375	Biometry	3.0	___	___			
RESP	430	Clinical I	2.0	___	___	BIOL	454	Immunology	2.0	___	___			
RESP	431	Clinical II	4.0	___	___	BIOL	463	Virology	4.0	___	___			
<p>*After completion of the Clinical I Coursework at Lancaster Regional Medical Center, the major will graduate with a degree in BS Biology, Respiratory Therapy. However, the graduate must complete the Clinical II Coursework in order to be employed and certified as a respiratory therapist.</p>					CSCI*					3.0	___	___		
					GERT					100	Interdis Intro to Gert	3.0	___	___
					MATH					130	Elements of Statistics	3.0	___	___
					PHIL					285	Moral Prob Medicine	3.0	___	___
					SOCY					214	Aging and the Aged	3.0	___	___
CLINICAL II COURSEWORK (26.0 credits)					*Numbered CSCI 140 or above.									
BIOL	455	Cardiopul. Phys.	3.0	___	___									
RESP	416	Current Perspect.	2.0	___	___									
RESP	419	Resp. Care in Alt. Site	2.0	___	___									
RESP	424	Non-Infect. Diseases	2.0	___	___									
RESP	425	Neonatology	2.0	___	___									
RESP	432	Clinical Practice III	13.0	___	___									
RESP	495	Respiratory Care Res.	2.0	___	___									
<p>*Following the completion of the Clinical II Coursework, the students will receive a Respiratory Therapy certificate, which will permit them to seek employment as a respiratory therapist and qualifies them to take the certification examination.</p>														