BIOLOGY, B.S. - RESPIRATORY THERAPY OPTION

Major in Biology, BS			
Co	de	Title	Hours
CORE COURSES (C- or higher required)			12
	Foundations o	f Biology - See Appendix 1	
	BIOL 362	Cell and Developmental Biology	
	BIOL 364	Foundations of Genetics & Molecular Biology	
Option in Respiratory Therapy - See separate block			
Tot	tal Hours		12

Appendix 1. Foundations of Biology

Code	Title	Hours
Foundations of	Biology C- or Higher	4
BIOL 101	Foundations of Biology	

Concentration in Respiratory Therapy

Code	Title	Hours
REQUIRED RESP	IRATORY THERAPY COURSES	
BIOL 257	Introduction to Allied Health Professions	
BIOL 254	Human Anatomy & Physiology I (C- minimum)	4
BIOL 255	Human Anatomy & Physiology II (C- minimum)	4
BIOL 361 Microbiology (C- minimum)		4
RESPIRATORY THERAPY PROFESSIONAL PHASE I		
	mplete the Phase II coursework in order to be rtified as a respiratory therapist.	
RESP 410	Acute Cardiopulmonary Care	2
RESP 411	Respiratory Care Techniques 1	2
RESP 412	Principles of Aerosol & Gas Therapy	3
RESP 413	Respiratory Assessment & Therapeutics	4
RESP 414	Respiratory Care Techniques 2	3
RESP 419	Respiratory Care in Alternate Sites	2
RESP 420	Arterial Blood Gas Analysis	3
RESP 421	Physiology of Mechanical Ventilation	2
RESP 422	Pharmacology	2

RESPIRATORY THERAPY PROFESSIONAL PHASE II

Clinical Practice 1

Clinical Practicum 1

Infectious Diseases

Non-Infectious Diseases

RESP 423

RESP 424

RESP 425 RESP 460

RESP 461

Following completion of Phase II coursework, the student will receive a respiratory therapy certificate, which will permit them to seek employment as a respiratory therapist and qualifies them to take the certification exam.

Neonatology for the Respiratory Therapist

RESP 415	Technical Aspects of Mechanical Ventilation	3
RESP 417	Respiratory Care Techniques 3	3
RESP 462	Clinical Practice 2	1
RESP 463	Clinical Practicum 2	3
RESP 464	Clinical Practicum 3	10

Req Related for Biology, BS

Code Title Hours
For Biology Majors the G2 block of the Liberal Arts Core will be

fulfilled by your required related coursework.

CHEMISTRY

A C- or higher in CHEM 111 and 112 is a pre-requisite for CHEM 235. A C- or higher in CHEM 231 is a pre-requisite for CHEM 232. Students interested in graduate or professional school should take CHEM 231 and 232.

CHEM 111	Introductory Chemistry 1	4
CHEM 112	Introductory Chemistry 2	4
Organic Chemist	ry - Choose 1 of the following options 1-2:	4-8
Option 1. Orga	nic Chemistry I and II	
CHEM 231	Organic Chemistry 1	
CHEM 232	Organic Chemistry 2	
Option 2. Shor	rt Course in Organic Chemistry	
CHEM 235	Organic Chemistry	
CHEM 326	Biochemistry 1	4
MATHEMATICS I	FOR PRE-ATHL, RESP THER, OR PPOD	
Calculus I or Hon	ors Calculus - Choose 1 of the following:	4-5
MATH 161	Calculus 1	
MATH 163H	Honors Calculus 1	
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PHYSICS

2

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Students who might be interested in attending graduate or professional school after completing their professional phase should also take PHYS 132 or 232.

Physics 1 with Algebra or Calculus (C- minimum) - Choose 1 of the 4-5 following:

Total Hours		
PHYS 231	Physics 1 with Calculus	
PHYS 131	Physics 1 with Algebra	