

BIOLOGY, B.S. - RESPIRATORY THERAPY OPTION

Major in Biology, BS

Code	Title	Hours
CORE COURSES (C- or higher required)		12
Foundations of Biology - See Appendix 1		
BIOL 362	Cell and Developmental Biology	
BIOL 364	Foundations of Genetics & Molecular Biology	
Option in Respiratory Therapy - See separate block		
Total 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 RESPIRATORY THERAPY COURSES		
BIOL 257	Introduction to Allied Health Professions	1
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		
Student must complete the Phase II coursework in order to be employed and certified 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
RESP 423	Infectious Diseases	2
RESP 424	Non-Infectious Diseases	2
RESP 425	Neonatology for the Respiratory Therapist	2
RESP 460	Clinical Practice 1	1
RESP 461	Clinical Practicum 1	2

RESPIRATORY THERAPY PROFESSIONAL PHASE II

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.

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

RESP 495	Respiratory Care Research	2
Total Hours		67

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 Chemistry - Choose 1 of the following options 1-2:		4-8
Option 1. Organic Chemistry I and II		
CHEM 231	Organic Chemistry 1	
CHEM 232	Organic Chemistry 2	
Option 2. Short Course in Organic Chemistry		
CHEM 235	Organic Chemistry	
CHEM 326	Biochemistry 1	4

MATHEMATICS FOR PRE-ATHL, RESP THER, OR PPOD

Calculus I or Honors Calculus - Choose 1 of the following:		4-5
MATH 161	Calculus 1	
MATH 163H	Honors Calculus 1	

PHYSICS

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 following:		4-5
PHYS 131	Physics 1 with Algebra	
PHYS 231	Physics 1 with Calculus	

Total Hours		24-30
--------------------	--	--------------