## MILLERSVILLE UNIVERSITY

Studen	t Name:	Student I.D.#
DEGREE:	BS	MAJOR REQUIREMENTS FOR A BS DEGREE IN
MAJOR:	BIOL	BIOLOGY: RESPIRATORY THERAPY
OPTION:	RESP	Total credit hours required: 120.0 minimum
	REQU	REMENTS AND POLICIES FOR THE BS BIOLOGY MAJOR
A. Policies	for Admiss	ion to the Major
1. Ne upo 2. Ad sta Ca	w students (fro on admission t mission of Mill itus) requires t italog. Studen	eshmen and transfers) must be admitted to the Biology major by the Office of Admissions to the University. Sersville University students to the biology major (from other departments or undeclared hat the student is in satisfactory academic standing as described in the Undergraduate ts who were dropped from a Biology major also must satisfy the Biology Retention in the fore being readmitted to a Biology major
3. No	n-degree and	continuing education students must be admitted to the Biology major by the Office of Admissions.
B. Policies 1. Un 2. Ad Bio and 131 also 3. BS inte con und Stu pro pro pro pro re-a sea mai 4. Th 5. Mill sati Not ear 6. Tra Mill ma	for Retentic iversity require mission to the logy majors in a required-relat or 231), a sate or maintain and Biology Resp rview with the nmittee will as derstanding of dents who scc gram even if s fessional phas application the ats are available th/science GP, e requirement llersville Unive isfy the above te: Students w n a grade of B ansfer students lersville Univer jors (part 4 ab	<b>by in the Major</b> ements for retention must be met. professional phase of the Respiratory Therapy program is competitive and not guaranteed. the Respiratory Therapy option must earn grades of C- (C minus) or higher in all required Biology ted courses (BIOL 101, 254, 255, 362, 461; CHEM 111, 112, 235, 326; MATH 161 or 163; PHYS tisfactory (S) grade in BIOL 257, and have a minimum GPA of 2.3 in these courses. Students must overall GPA of 2.0. irratory Therapy students who meet the minimum math/science GPA of 2.3 can schedule an admission committee for the professional phase of the Respiratory Therapy program. The sess students on her/his academic performance, letters of recommendation, communication skills, the profession, maturity, and potential to succeed in the professional phase of the program. ore poorly during her/his interview may be denied admission to the professional phase of the he/he has met the minimum math/science GPA requirement. Students denied admission into the e of the program will be advised on how he/she can strengthen her/his credentials for following year or how she/he can complete the degree requirements for an alternative program. If le in the professional phase of the program, students who have not met the minimum A may be interviewed and, if accepted, will be admitted on a probationary basis. s stated above must be satisfied before completion of 90 Millersville University credit hours. risity students changing majors, or Biology majors changing options within the Biology major, must requirements prior to completion of 45 additional Millersville University credit hours. ho desire to change their major to Biology may substitute BIOL 100 for BIOL 101 if they - (B minus) or higher in this course. s with 60 credit hours. Transfer students with fewer than 60 credits should refer to the policy for all other ove).
7. Ali re-f	y students fail	Ing to meet the above requirements will be dropped from the Biology major. Students who wish to
C. Policies	for Comple	tion of the Major
1. Co 2. EN Ge <b>D. Admissi</b>	Impletion of all IGL 319, Scier Ineral Education on to the pr	University curricular requirements. The Writing, is the recommended course for the Upper Level Writing Requirement under the Con Curriculum Requirements. Tofessional phase is competitive and is not guaranteed (see part B above).
<b>Note to the s</b> be aware of c	<b>tudent:</b> This	form is provided as a guide. It is your responsibility to consult regularly with your advisor to curriculum details which are not incorporated on this form.

## MAJOR SEQUENCE AND DEGREE REQUIREMENTS

## Major: BS BIOLOGY

Option: RESPIRATORY THERAPY									
Major Field Requirements: 53.0 credits									
Other Requirements: 24.0-26.0 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 N	0.	Short Title	C.H.	Grade	Course No	).	Short Title	C.H.	Grade	
REQUIRED BIOLOGY COURSES (12.0 credits)						REQUIRED RELATED (24.0-26.0 credits)				
BIOL	101	Foundations of Biology	4.0		Chomio					
BIOL	362	Cell & Development	4.0		Chemis	try (	io.u credits)			
BIOL	364	Genetics & Molecular Biology	4.0		CHEM	111*	Introductory Chemistry I	4.0		
REQUIRED RESP THER COURSES (12.0 credits)					CHEM	CHEM 112* Introductory Chemistry II 4.0				
BIOI	254	Human Anatomy & Phys I	4.0	,	CHEM	235	Short Course Organic Cherr	ı 4.0		
BIOL	255	Human Anatomy & Phys II	4.0		CHEM	326	Biochemistry I	4.0		
BIOL	257	Intro Allied Health Professions		Note: CHEM 231* and CHEM 232 (total 8.0 credits) may						
BIOL	BIOL 461 General Microbiology				substitute for CHEM 235.					
				*Must earn a C- or better in these CHEM courses before						
RESP	THER	PROFESSIONAL PHASE L	32.0 cre	complet	completing CHEM 235 or CHEM 232.					
Upon completion of 32.0 credit hours of clinical						Note: Those wishing to complete a Chemistry minor must				
course	work,	32.0 credit hours will be credit	ed towa	rd the	complet	complete CHEM 265 (Quantitative Analysis) in addition to				
B.S. degree in Biology with the Respiratory Therapy option.						those Chemistry courses listed above.				
RESP	410	Acute Cardiopulmonary Care	2.0		Note: St	Note: Students who are considering going to graduate				
RESP	411	Respiratory Care Techniques I 2.0 school or attending medical, dental, veterinary school or								
RESP	412	Prin. Aerosol & Gas Therapy 3.0 wanting to enroll in school to become a pharmacist, physi								
RESP	413	Respiratory Assess & Therap	. 4.0		cal thera	apist,	or physician assistant after o	completin	ig their	
RESP	414	Respiratory Care Techniques	II 3.0		professi	onai	phase Should Take Cher	/i 23 i an	u 232.	
RESP	419	Respiratory Care in Alt Sites	2.0		Mathem	atics	s (4.0 - 5.0 credits)			
RESP	420	Arterial Blood Gas Analysis	3.0		MATH	161	Calculus I	4.0		
RESP	421	Physic Mechanical Ventilation	1 2.0				or			
RESP	422	Pharmacology	2.0		MATH	163	Honors Calculus	5.0		
RESP	423	Noninfectious Diseases	2.0							
RESP	425	Neonatology for Resp Theran	2.0 ist 2.0		Physics	6 (4.0	-5.0 credits)			
RESP	460	Clinical Practice I	1.0		PHYS	131	Physics I with Algebra	4.0		
RESP	461	Clinical Practicum I	2.0				or			
After co	omple	tion of the Phase I coursework	the stu	ident	PHYS	231	Physics I with Calculus	5.0		
may gr	aduat	e with a B.S. degree in Biology	, Respii	ratory	Note:	Stude	ents who might be interested	in attend	ling	
Therap	y; ho	wever, the graduate must com	plete the	e Phase	gradua	ate so	chool or professional school a	after com	pleting	
II cours	seworl	k in order to be employed and	certified	as a	their p	their professional phase SHOULD ALSO TAKE PHYS				
respira	tory th	nerapist.			132 O	R PH	IYS 232.			
					Sugges	ted 4	Additional Course (no minir	ոսայ		
RESP THER PROFESSIONAL PHASE II (22.0 credits)						100	Conoral Bayabalagy	2.0		
Followi	ing the	e completion of 22.0 credit hou	rs of Ph	ase	FSTC	100	General Esychology	3.0		
Il coursework, the student will receive a Respiratory					Note: S	tude	nts who are considering going	g to grad	uate	
I herapy certificate, which will permit them to seek					school or attending medical, dental, veterinary school or					
employment as a respiratory therapist and qualifies them					wanting	wanting to enroll in school to become a pharmacist, physi-				
						cal therapist, or physician assistant after completing their professional phase SHOULD ALSO consider taking				
RESP 415 Tech Aspects Mech Ventilation 3.0										
RESP	417	Respiratory Care Techniques	III 3.0	General Psychology (PSYC 100), which can be used						
RESP	462	Clinical Practice II	1.0	loward	ine G	so general education requirer	nent.			
RESP 463 Clinical Practicum II 3.0   DESD 464 Clinical Practicum II 40.0						General Electives (as necessary)				
	404 405	Cimical Macticum III Respiratory Caro Research	10.0							
INE OF	+90	Respiratory Gale Research	2.0							