East Central University BIOLOGY- Molecular Biology Conc.

Major Code= 0049

Student Name	ð:			Student ID #			
30 hours at ECU completed				Advisor:			
60 hours	at Sr college	completed			, <u> </u>		
40 hours upper level completed				OSRHE Computer Proficiency Requirement met			
Requirements			Hours				Hours
I. General Education			40	III. Related W	ork		33-35
A maximum of twelve hours may be counted in both the major/related work and gene			eral education	CHEM	1114	General Chemistry I	
21 maximum oj in	reive nours may	oc counted in soin the majorretated work and gene	rai cancarion.	CHEM	1214	General Chemistry II	
				CHEM	3114	Organic Chemistry I	
Courses higlighted in blue are general education courses				CHEM	4213	Biochemistry	
II. Major in BiologyMolecular Concentration			47-48	CHEM	4221	Biochemistry Lab	
_	red in Biolog	-	19	PHYS	1114	General Physics	
BIOL	1114	General Biology I		PHYS	1214	General Physics II	
BIOL	1134	General Biology II		MATH	1513	College Algebra	
BIOL 3434 Genetics				One of the following			
One of the follo	0			MATH	2825	Calculus & Analytical Geometry OR	
BIOL	3514	General Physiology OR			H 2613	Calculus for Bus, Life and Soc Sciences	
	L 3634	Human Physiology		One of the follo	_		
BIOL	4883	Biology Senior Seminar		EHS	3703	Biostatistics and Environmental Calc.	
				MATH	1223	Intro. To probability and Statistics	
			10.20	PSYCH	3833	Behavioral Science Statistics	
C. Required in Molecular Biology Concentration:			19-20	SOC	3833	Statistics for Social Sciences	
BIOL	2344	General Microbiology		*** ***			
BIOL	3013	Research Methods & Bioethics		IV. Minor		(not required)	
BIOL	4313	Cell and Molecular Biology		XI THE			0.10
BIOL 4545 Advanced Molecular Biology			V. Electives			9-12	
One of the following				An elective course is any college-level course not required by the degree that is utilize			
	BIOL 2184 Human Anatomy OR			reach the 120 credit hours required for degree completion. Elective cou			
BIOL 3245 Comparative Vertebrate Anatomy				according to the interest of the student and can be used in completion of a mi certificate, or additional major.			minor,
D.	Required	Required Electives. Select from:		VI. Total Hours Rquired			120
BIOL	2243	Intro. To Biotechnology					
BIOL	2773	Forensic Biology		VII. Special Requirements			
BIOL	3553	Genomics and Bioinformatics		With department approval, students may omit MATH 1513 and begin with MATH 2825.			
BIOL	3623	Biochemistry of Human Disease					
	BIOL 3683 Immunology			Students interested in the 3+1 degree program (ECU-OSUCOM) can apply for early admission to the			
BIOL 4763		Biochemical Genetics		OSU College of Osteopathic Medicine and earn an ECU bachelors degree in biology by completing the			
BIOL	4981-4	Seminar in Biology		-		SUCOM (D.O. degree). Complete information on the pr ffice or the Department of Biological and Environmenta	-
DIOL	4701-4	Schillar III Diology		ootanica nom t	ne records O	mee of the Department of Diological and Environmenta	i Belefices.