BIOTECHNOLOGY MINOR

Required Courses		
BIO/CHEM 202	Orientation to Biotechnology	2
Select from the follo	owing:	4-5
BIO 161	Introduction to Cell and Molecular Biology	
BOT 121	General Botany	
MCRO 221	Microbiology	
MCRO 224	General Microbiology I	
Select from the follo	owing:	3-5
BIO 303	Survey of Genetics	
BIO 351	Principles of Genetics	
CHEM 373	Molecular Biology	
Select from the follo	owing:	5
CHEM 314	Biochemistry: Fundamentals and Applications	
CHEM 369	Biochemical Principles	
Laboratory elective-	select from the following:	3-5
ASCI 403	Applied Biotechnology in Animal Science	
BIO/CHEM 475	Molecular Biology Laboratory	
CHEM 474	Protein Techniques Laboratory	
Approved Electives		
Select from the follo	owing:	6-11
Animal Biotechno	ology	
ASCI 403	Applied Biotechnology in Animal Science	
ASCI 406	Applied Animal Embryology and Assisted Reproduction	
ASCI 407	Assisted Reproduction Technologies of Gametes and Embryos Laboratory	
ASCI 440	Immunology and Diseases of Animals	
DSCI 330	Artificial Insemination and Embryo Biotechnology	
Bioinformatics		
BIO/CHEM 441	Bioinformatics Applications	
CSC 448	Bioinformatics Algorithms	
Cell and Molecul	ar Biology/Microbial Biotechnology	
BIO 426	Immunology	
BIO 452	Cell Biology	
BIO/CHEM 475	Molecular Biology Laboratory	
BIO 476	Gene Expression Laboratory	
CHEM 474	Protein Techniques Laboratory	
CHEM 428	Nutritional Biochemistry	
MCRO 225	General Microbiology II	
MCRO 320	Emerging Infectious Diseases	
MCRO 402	General Virology	
MCRO 433	Microbial Biotechnology	
Engineering-related	ted Biotechnology	
BRAE 448	Bioconversion	
ENGR 581	Biochemical Engineering	

Total units			28	
	BOT 323	Plant Pathology		
	Plant Biotechnology			
	CHEM 477	Biochemical Pharmacology		
	CHEM 377	Chemistry of Drugs and Poisons		
	Pharmaceutical Biotechnology			
	or PHIL 341	Professional Ethics		
	PHIL 339	Biomedical Ethics		
	Ethics			
	ENVE 443	Bioremediation Engineering		