

Biotechnology Track Worksheet

20__

MCDB

BA

SID _____

Research Lab Mentor: _____

Student: _____

MCDB Faculty Advisor: _____

BIOL Prerequisites:		Placement Exam Score		Course #	Semester	Grade	Place Out
BIOL 101	Biochemistry and Biophysics			BIOL 101			
BIOL 102	Prin of Cell Biology & Membrane Phys			BIOL 102			
BIOL 103	Genes and Development			BIOL 103			
BIOL 104	Prin of Ecology & Evolutionary Biology			BIOL 104			
GEN CHEM Prerequisites:				Course #	Semester	Grade	Place Out
General Chemistry (2 terms -161/165; or 163/167; or its equivalent)							
PHYSICS Prerequisites:				Course #	Semester	Grade	Place Out
Physics (1 term of 170 or higher)							
MATH Prerequisites:				Course #	Semester	Grade	Place Out
Math 115 or higher (1 term - not including Math 190)							
CORE COURSES: BA - Choose 2				Course #	Semester	Grade	
MCDB 200b	Molecular Biology	MCDB 290b	Microbiology				
MCDB 202a	Genetics	MCDB 310a	Physiological Systems				
MCDB 205b	Cell Biology	MCDB 320a	Neurobiology				
MCDB 210a	Developmental Biology	MCDB 430a	Biology of the Immune System				
EITHER: MCDB 300b Biochemistry OR: MB&B 300a Principles of Biochemistry I							
GENERAL ELECTIVES: (2 Total)				Course #	Semester	Grade	
Required Track Course: MCDB 370b Biotechnology							
AND Choose 1 additional elective below							
BENG 351a	Biomedical Engineering I	CENG 412b	Chemical Engineering Laboratory				
BENG 352b	Biomedical Engineering II	CPSC 437a	Introduction to Databases				
BENG 410a	Basis of Bioimaging & Biosensing	CPSC 445b	Introduction to Data Mining				
BENG 435b	Biomaterial - Tissue Interactions	CPSC 470a	Artificial Intelligence				
BENG 457b	Biomechanics	CPSC 475b	Comp. Vision & Bio Perception				
BENG 464b	Tissue Engineering	MBB 420a	Macromolecular Structure				
CENG 210a	Chem Eng & Process Modeling	MBB 421b	Macromolecular dynamics				
CENG 411a	Separation & Purification Processes	MBB 443b	Eukaryotic Molecular Biology				
SPECIAL ELECTIVE:				Course #	Semester	Grade	
BA: Choose 1 from MCDB 350 or above							
LABS:				Course #	Semester	Grade	
BA: Choose 1 lab (from Biological Sciences: MCDB/EEB/MBB/ANTHRO Labs)							
SENIOR REQUIREMENT:				Course #	Semester	Grade	
BA: (Senior Essay or 1 term of MCDB 475 Research)							