

Quantitative Biology 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 any 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			
<i>EITHER:</i> MCDB 300b Biochemistry <i>OR:</i> MB&B 300a Principles of Biochemistry I						
GENERAL ELECTIVES: (2 Total)			Course #	Semester	Grade	
Required Track Course: MCDB 261b Intro Dynamical Systems in Biology (Choose 1 additional elective below)						
MCDB 320a	Neurobiology	MATH 251b	Stochastic Processes			
MCDB 361a	*Dynamical Systems in Biology	MBB 302b	Principles of Biophysics			
BENG 467b	Systems Biology Cell Signaling	MBB 435a	Mathematical Methods Biophysics			
CENG 320a	Immunoengineering	MBB 452a	Bioinformatics: Mining & Simulation			
CPSC 440b	Numerical Computation	MBB 523b	Biological Physics			
CPSC 475a	Comp Vision & Bio Perception	PHYS 402b	Advanced Classical Physics			
MATH 246a	Ordinary Differential Equations					
* Prereferred Track Elective						
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 Research)						