MOLECULAR CELLULAR AND DEVELOPMENTAL BIOLOGY http://www.mcdb.ucsb.edu

College of Letters and Science University of California, Santa Barbara

Student Name:	Perm:	Qtr/	/Yr	Enrolled:	

DOCTOR OF PHILOSOPHY – MOLECULAR, CELLULAR AND DEVELOPMENTAL BIOLOGY – 2018-19

In addition to departmental requirements, candidates for graduate degrees must fulfill University requirements described in the "Graduate Education" section of the UCSB General Catalog.

Ph.D. students in the program are required to demonstrate competency in fundamental areas of molecular, cellular and developmental biology by completing a minimum of 30 units distributed as follows: core course modules (16 units), other required courses (2 units), elective courses, literature courses and research (12 units). Courses must be completed with an average of a B or better in the core course modules given each quarter with no grade lower than a "C" in a module, and a B or better in elective courses. It is expected that all Ph.D. students are enrolled as full-time students and earn a minimum of 12 course units each quarter, and that most of the core requirements will be completed during the first year of graduate study. Time-to-Degree: 3 years to advance to candidacy, 6 years to complete the degree

CORE COURSES (16 units)							
COURSE #	COURSE NAME	UNITS	QTR/YR	GRADE			
MCDB 229	Protein Biochemistry	2	F				
MCDB 235	Experimental Strategies in Molecular Genetics	1	F				
BMSE 205A	Biochemical Techniques	1	F				
MCDB 220A	Chromosomes and Cell Cycle	2	W				
MCDB 220B	The Cytoskeleton	2	W				
MCDB 220C	From RNA to Membranes	2	W				
MCDB 230	Gene Regulation		W				
MCDB 223	Signal Transduction		S				
MCDB 225	Development		S				
OTHER REQUIRED COURSES (2 units)							
MCDB 221	Preparation and Evaluation of Research Proposals	S					
ELECTIVE COURSES (>3 units)							
At least 3 additional units of MCDB graduate lecture courses, or other courses approved by petition to the Graduate Advisor, are required.							

LITERATURE COURSES (4 units)						
Two graduate literature courses (MCDB 265, 266, 268, 595) must be taken each year until Advancement to Candidacy. <u>Up to 4 units</u> of graduate literature courses may be counted toward the degree unit requirement.						
COURSE #	QUARTER/YEAR	UNITS	COURSE #	QUARTER/YEAR UNITS		

			LABORATOR	Y ROTATION	IS			
departmental fe	in the MCDB doctoral pro llowships, traineeships, e its supported entirely by	tc.) are expected	d to complete thre	e one-quarter long	g laboratory rotations dur	ring their first ye	ear of	study. For
COURSE #	QUARTER/YEAR UNITS ADVISOR GRADE							
MCDB 596								
MCDB 596								
MCDB 596								
			TEACHING R	REQUIREMEN	Т			
	nts are required to serve and 2 quarters of MCDB	as teaching ass	istants for at least	t two quarters dur		f study at UCSE	, and	to complete
COURSE #	COURSE NAME	QTR/YEAR	GRADE	COURSE #	COURSE NAME	QTR/YEA	R	GRADE
MCDB 500	TA Orientation			MCDB 501	Practicum in Instruction			
MCDB 502	Teaching Techniques			MCDB 501	Practicum in Instruction			
and MCDB 263 e	pected to enroll & regular each quarter. After Advar d to meet annually with	rly attend MCDB ncement to Car	262 (Research Prondidacy, students	are expected to	IS)) as well as MCDB's we present a formal semin	ar annually in	MCD	
COURSE #	REQUIREME	NT F	ULFILLED	COURSE #	REQUIREME	ENT	FU	LFILLED
MCDB 262	FNS Seminar, 1 unit each quart	ter		MCDB 260	Research Seminar, 1 unit each quarter			
MCDB 262	Presentation of c seminar per year after Advanceme			MCDB 263	Research Seminar			
		RF	SFARCH PRO	POSITION EX	ΔΜ			
research processes of a proposition	ust receive a passi oposition by the standard written research , and includes eva	ing evaluation tudent in ar proposition	on for perform area that is by the stude	mance on the different fron ent, followed	proposition exam n their dissertatio by an oral defense	n research.	The	e exam
	•							
		A	OVANCEMEN'	T TO CANDID	ACY			
	ust receive a passi a formal conference	_			Candidacy apprai			

prospectus and subject matter appropriate to the area of research.

Date Exam Completed:

DISSERTATION						
An approved written dissertation, final Ph.D. seminar and oral defense of the dissertation.						
Dissertation Committee:	Chair:					
	Member:					
	Member:					
	Member:					
Date Requirement Completed:						