

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 – 2021-22

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

<https://my.sa.ucsb.edu/catalog/Current/GraduateEducation/DoctoralDegreeRequirements.aspx>

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 **24.0** units distributed as follows: core course modules (19 units), and electives (5 units). Courses must be completed with a grade of B or better in the core and electives.. It is expected that all Ph.D. students are enrolled as full-time students (12 units/quarter). Students must complete the core course requirements before advancing to candidacy.

Time-to-Degree: 3 years to advance to candidacy, 6 years to complete the Ph.D.

CORE COURSES (19.0 units)				
COURSE #	COURSE NAME	UNITS	QTR/YR	GRADE
MCDB 229	Protein Biochemistry	2	F	
MCDB 218A	Methods & Logic in Molecular Cell Biology I	3	F	
MCDB 218B	Methods & Logic in Molecular Cell Biology II	5	W	
MCDB 221	Preparation and Evaluation of Research Proposals and Scientific Presentations	3	S	
MCDB 260	Research Strategies in Molecular, Cellular and Developmental Biology	1/qtr for 6 qtrs	FWS	
ELECTIVE COURSES (≥5.0 units)				
At least 5 additional units of MCDB graduate lecture courses, or other courses approved by petition to the Graduate Advisor, are required.				

LABORATORY ROTATIONS				
MCDB students in the MCDB doctoral program who are supported wholly or in part by institutional funds (including University and departmental fellowships, traineeships, etc.) are expected to complete three one-quarter long laboratory rotations during their first year of study. For first-year students supported entirely by faculty research grants, the three rotations are not required. Lab rotation consists of 3 units of MCDB 596 per qtr.				
COURSE #	QUARTER/YEAR	UNITS	ADVISOR	GRADE
MCDB 596				
MCDB 596				
MCDB 596				

TEACHING REQUIREMENT
All MCDB students are required to serve as teaching assistants for at least two quarters during their entire course of study at UCSB, and to complete MCDB 500, 502, and 2 quarters of MCDB 501 (4 units=50% TAship, no credit towards degree).

COURSE #	COURSE NAME	QTR/YEAR	GRADE	COURSE #	COURSE NAME	QTR/YEAR	GRADE
MCDB 500	TA Orientation			MCDB 501	Practicum in Instruction		
MCDB 502	Teaching Techniques			MCDB 501	Practicum in Instruction		

SEMINAR REQUIREMENTS

Students are expected to enroll & regularly attend MCDB 262 (Research Progress in MCDB - Friday Noon Seminar; FNS) as well as MCDB's weekly research seminar, MCDB 263 each quarter. After Advancement to Candidacy, students are expected to present a formal seminar annually in MCDB 262 (FNS), and are required to meet annually with their Ph.D. dissertation committee until completion and defense of the Ph.D. dissertation.

COURSE #	REQUIREMENT	FULFILLED	COURSE #	REQUIREMENT	FULFILLED
MCDB 262	1 unit each quarter		MCDB 596	Minimum 12 units	
MCDB 262	Must enroll every quarter and present annually after advancement		MCDB 263	1 unit each quarter enrolled	

RESEARCH PROPOSITION EXAM

Students must receive a passing evaluation for performance on the proposition exam. The exam focuses on a research proposition by the student in an area that is different from their dissertation research. The exam consists of a written research proposition by the student, followed by an oral defense of the research proposition, and includes evaluation of general knowledge in MCD Biology by a faculty committee

Date of Exam: _____ Summary of exam from Chair on file: _____

Conditions (if any): _____

Committee Members: Chair _____ Other members:

ADVANCEMENT TO CANDIDACY

Students must receive a passing evaluation on the Advancement to Candidacy appraisal. The assessment consists of a formal conference with the student's dissertation committee focusing on the dissertation prospectus and subject matter appropriate to the area of research.

Date Exam Completed: _____ Form I (Nomination of Dissertation Cmte) filed: _____
Form II (Report on Qualifying Exam) filed: _____

Dissertation Committee: Chair _____

Other Members: _____

Effective advancement to P2 (Qtr/Yr) _____ Projected P3 Conversation (Qtr/Yr) _____

After advancement to candidacy, students are expected to present a formal seminar in MCDB 262 (FNS) annually and are **required to meet annually with their PhD dissertation committees until completion and defense of the dissertation.**

DISSERTATION

The final requirement for the Ph.D. degree is a written dissertation and its oral defense, which is usually waived with committee approval in favor of a scheduled public seminar. **Form II – Report of Final Examination:**

Public Defense _____ **OR** **Waiver/Seminar** _____
(date) (date)

Degree & Quarter Awarded: _____

Next Career Step: _____ Contact Information:

Date Requirement Completed: _____