

MOLECULAR CELLULAR AND DEVELOPMENTAL BIOLOGY

<http://www.mcdb.ucsb.edu>

College of Letters and Science  
University of California, Santa Barbara

StudentName: \_\_\_\_\_ Perm: \_\_\_\_\_ Qtr/YrEnrolled: \_\_\_\_\_

**DOCTOR OF PHILOSOPHY–MOLECULAR, CELLULAR AND DEVELOPMENTAL BIOLOGY–2022-23**

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 (19.0units)				
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#	COURSENAME	QTR/YEAR	GRADE	COURSE#	COURSENAME	QTR/YEAR	GRADE
MCDB500	TA Orientation			MCDB501	Practicum in Instruction		
MCDB502	Teaching Techniques			MCDB501	Practicum in Instruction		

**SEMINAR and RESEARCH 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
MCDB 262	Must enroll every quarter (1 unit/quarter) and present annually after advancement	
MCDB 263	Must enroll every quarter	
MCDB 596	Research; enroll every quarter, minimum 12 units	

**RESEARCH PROPOSITION EXAM (Prelims/Comps)**

Students must receive a passing evaluation for performance on the proposition exam. The exam focuses on a research proposition by the student in the area of 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 **required** 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 Requirements Completed: \_\_\_\_\_