

DEPARTMENT OF ECOLOGY, EVOLUTION AND MARINE BIOLOGY

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

College of Letters and Science  
University of California, Santa Barbara

Student Name: \_\_\_\_\_

Perm: \_\_\_\_\_

**DOCTOR OF PHILOSOPHY – ECOLOGY, EVOLUTION AND MARINE BIOLOGY – 2024-25**

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

*Candidates for the doctor of philosophy degree in EEMB must normally have completed a bachelor's degree in one of the biological sciences, with a preparation deemed equivalent to that required for the bachelor's degree from UCSB. Students who are admitted to graduate standing with deficiencies in preparation will be required to take appropriate undergraduate courses. Doctoral students select, with the approval of their advisory committee, two areas of study. One area of study must be selected from the list below; the other may be selected from the list, or from an appropriate discipline in other departments.*

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

1. *Ecology with Ecosystem, Evolutionary, Physiological, Plant Community, or Population emphases*
2. *Algal Physiology, Ecology and Systematics*
3. *Behavioral Ecology*
4. *Biology of Arthropods*
5. *Biology of Plants*
6. *Biology of Deep Sea Animals*
7. *Biological Oceanography*
8. *Bioluminescence*
9. *Ichthyology*
10. *Invertebrate Biology*
11. *Limnology*
12. *Macroevolution*
13. *Mathematics Biology*
14. *Parasitology*
15. *Plant Systematics and Evolution (Biochemistry Systematics, Biosystematics, Taxonomy)*
16. *Population Genetics*
17. *Stream Ecology*
18. *Vertebrate Evolution, Morphology, and Systematics*
19. *Comparative Physiology*
20. *Endocrinology*
21. *Pharmacology*
22. *Biogeography and Macroecology*

## REQUIRED COURSES

### **SEMINAR FOR NEW GRADUATE STUDENTS (2.0 units total)**

This seminar is designed to familiarize new graduate students with the EEMB faculty and the diversity of research being conducted in the department and to provide a forum for interactions among new graduate students. It is *required* of all incoming graduate students unless special circumstances prevent attendance.

<b>COURSE #</b>	<b>COURSE NAME</b>	<b>UNITS</b>	<b>GRADE</b>
EEMB 290	Introduction to Faculty Research	2.0	

### **EECore GRADUATE CURRICULUM (10.0 units total)**

<b>COURSE #</b>	<b>COURSE NAME</b>	<b>UNITS</b>	<b>GRADE</b>
EEMB 507	Introduction to Graduate Research	2.0	
EEMB 508	Levels of Biological Organization I: Individuals & Populations	4.0	
EEMB 509	Levels of Biological Organization II: Communities & Ecosystems	4.0	

### **TA REQUIREMENT**

All doctoral candidates must qualify for and hold a teaching assistantship for the equivalent of two quarters during some point in the graduate career in order to obtain teaching experience. Associated with this are two training courses that must be taken at least once. These are:

<b>COURSE #</b>	<b>COURSE NAME</b>	<b>UNITS</b>	<b>GRADE</b>
EEMB 500	Campus Orientation This is a one-day seminar offered once a year in the fall.	1.0	
EEMB 502	Teaching Techniques Offered fall and winter quarters. This must be taken prior to or concurrent with a student's first TAship. <i>Please note: This course is offered by MCDB in fall, and EEMB in winter. This may be taken in the winter of the student's first year, rather than fall, even if TAing for the first time in the fall of that year.</i>	2.0	
EEMB 501	Additionally, a student may receive course credits for TAing. To get this credit a student must register for EEMB 501. This has a variable number of units (1-4), depending on the time commitment of the TAship. A 50% time TAship is worth 4 units.	1.0-4.0	

### **DISSERTATION COMMITTEE**

Ph.D. candidates follow an integrated course of study recommended by their major professor and dissertation committee. The dissertation committee will be nominated during their first year in consultation with the student and the major professor. At a minimum, the committee will consist of the major professor serving as Chair and two other UC Academic Senate members, one of whom must be from the Department of Ecology, Evolution and Marine Biology.

**Doctoral Committee:** Chair: \_\_\_\_\_

Member: \_\_\_\_\_

Member: \_\_\_\_\_

Member: \_\_\_\_\_

#### **WRITTEN QUALIFYING EXAMINATIONS**

Satisfactory performance on two days of written qualifying examinations administered by faculty in the department. Students are required to complete their written examinations *within two years* after enrolling in the Ph.D. program.

First Day of Ph.D. Written Qualifying Exam passed on (date): \_\_\_\_\_

Second Day of Ph.D. Written Qualifying Exam passed on (date): \_\_\_\_\_

#### **ORALS AND ADVANCEMENT TO CANDIDACY**

Satisfactory performance on an oral qualifying exam administered by the student's dissertation committee. The exam will include the student's area of specialty and the dissertation prospectus. *It must be taken by the end of the ninth quarter of study.* Students petition to be advanced to candidacy after passing this exam.

Ph.D. Oral Qualifying Exam passed on (date): \_\_\_\_\_

#### **CAPSTONE REQUIREMENT**

All students are expected to write and defend an original Ph.D. dissertation. Following successful submission of the dissertation, the student undergoes a dissertation defense. The defense may be waived in certain circumstances with approval of the departmental Graduate Affairs Committee. Required coursework must be completed by the end of the quarter in which the dissertation is submitted. The student's Ph.D. Committee supervises the dissertation research, administers the dissertation defense, and certifies the completion of required coursework.

Presentation of a research seminar in open forum at the completion of the dissertation. \_\_\_\_\_  
(date)

**PH.D. DEGREE REQUIREMENTS SATISFIED:** \_\_\_\_\_  
Quarter/Year

**DEPT GRADUATE ADVISOR SIGNATURE:** \_\_\_\_\_

\_\_\_\_\_  
Print Name