

PHYSICS DEPARTMENT
<http://www.physics.ucsb.edu>
 College of Letters and Science
 University of California, Santa Barbara

MASTER OF ARTS AND DOCTOR OF PHILOSOPHY – PHYSICS – 2013-2014

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

The Department of Physics does not offer a terminal M.A. program. Admission is to the Ph.D. program only. Master’s degrees may be awarded only in the case of students who leave the Ph.D. program or for continuing students who have advanced to candidacy and request the M.A. degree.

CORE COURSES FOR THE PHD			
First year students will be required to pass the following graduate physics courses with a grade of B or better. The departmental graduate advisor can exempt students from taking a required course, or may require other courses in addition to those listed here.			
COURSE #	COURSE NAME	UNITS	GRADE
PHYS 205*	Classical Mechanics		
PHYS 210A	Electromagnetic Theory		
PHYS 210B	Electromagnetic Theory		
PHYS 215A	Quantum Mechanics		
PHYS 215B	Quantum Mechanics		
PHYS 215C	Quantum Mechanics		
PHYS 219	Statistical Mechanics		

**Physics 237 (Galactic Dynamics) with a grade of B or better may be substituted for Physics 205 provided the student has demonstrated competency in Lagrangian Mechanics to the Physics 205 instructor. If Physics 237 is used this way as a substitution, it cannot be used to satisfy the elective requirement.*

ADDITIONAL COURSE REQUIREMENTS			
Theoretical physics students must complete a minimum of five advanced graduate courses, and experimental physics students must complete a minimum of three advanced graduate courses with a grade of B or better. For theoretical physics students, at least one of these courses must be in an area clearly distinct from the student’s field of specialization – such a determination will be made by the graduate advisor.			
COURSE #	COURSE NAME	UNITS	GRADE

ADVANCEMENT TO CANDIDACY EXAM

Students are required to pass an oral advancement to candidacy exam, to be taken during winter quarter of their third year. Students should be able to discuss the key questions that need to be addressed in their field and propose a possible line of research. To ensure that the student and the committee agree on what constitutes an acceptably broad definition of *field*, the student will submit a brief synopsis of his/her presentation at the time the exam is scheduled. The synopsis must be approved by both the chair of the committee and the wiseperson assigned to the exam.

Students will be evaluated on:

1. whether the presentation addresses the underlying physics issues of the field and shows a reasonable understanding of the important problems;
2. whether the student is able to respond adequately to questions from the committee. Students must do well in both areas in order to pass.

Exam passed on (date): _____

DISSERTATION

The final period of graduate study is primarily directed toward individual research and the preparation of a research-based dissertation. Research, either experimental or theoretical, is conducted under the supervision of a faculty member, normally in an area related to his or her own field of specialization. Students must pass an oral dissertation defense to be awarded the Ph.D.

MA DEGREE REQUIREMENTS SATISFIED: _____ Quarter/Year

DEPT GRADUATE ADVISOR SIGNATURE: _____ Print Name

FOR GRADUATE DIVISION USE ONLY

Residence requirement-minimum 3 quarters (<i>verify departmental requirement</i>)	
Required units completed = _____	
Language requirement Satisfied (<i>if required</i>)	
No grades of I, NR, or NG	
3.0 or better GPA overall	
B or better in all core courses (<i>200-level – verify if departmental requirement</i>)	
Registered quarter of degree or Filing Fee LOA: _____	
Master's Form I / COI and committee entered	
Master's Thesis date received (<i>signature page/e-filed and entered in SReg</i>): _____	
Master's Thesis Submission Fee: _____	
ProQuest ID _____ Permission Ltrs received (<i>if applicable</i>)	
Master's Degree Awarded (mm/dd/yy)	