

Physics—Major Requirements for BS Degree
 Mathematical Physics Track
 Effective Fall 2010
 University of California, Merced

Anticipated Graduation Date (ex: May 2014) _____

Full Name: _____ ID: _____ Email: _____

Phone: _____

University Requirements

Requirement/ Course Dept #	Course Title	Grade	Units Required	Term Completed	Substitute Approved
UC Entry Level Writing (WRI 001 or ELWR)			n/a		
American History/Institutions			n/a		
World at Home I (CORE 001)			1 course		
College Composition (WRI 010)			1 course		

School Requirements

World at Home II (CORE 100 or replacement)			4		
Calculus I (MATH 021)			4		
Probability & Statistics (MATH 32)			4		
Introduction to Physics I (PHYS 08)			4		
Computer Science Course (CSE 020)			2		
General Chemistry I (CHEM 02)			4		
Lower Division Arts/Humanities Elective			4		
Lower Division Social Science Elective			4		
UD Science Writing Course (WRI 116 or course approved by NS)			4		
UD Social Science/Humanities Elective			4		

Lower Division Major/Core Requirements

Calculus II (MATH 22)			4		
Multi-variable Calculus (MATH 23)			4		
Linear Algebra and Differential Equations (MATH 24)			4		
Introductory Physics II (PHYS 09)			4		
Introductory Physics III (PHYS 10)			4		

Upper Division Major Requirements

Analytic Mechanics Core (PHYS 105)			4		
Electrodynamics Core (PHYS 110)			4		
Statistical Mechanics Core (PHYS 112)			4		
Quantum Mechanics Core (PHYS 137)			4		
Modern Physics Lab (PHYS 160)			4		
Waves Mini-course (PHYS 122)			2		

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One Additional mini-course of student's choice (PHYS 111,124,126)			2		
One "breadth" science or engr elective (upper or lower that is not physics or math)			3		

Mathematical Physics Track

Undergraduate Research (PHYS 195) * Math 195 may be substituted			4		
One Upper Division Course from Math Elective List below			4		
One Upper Division Course from Math Elective List below			4		

Free Electives to Meet 120 Units

			8		

Mathematical Physics Elective List

- Math 122
- Math 125
- Math 126
- Math 131
- Math 132
- Math 141

Notes: _____

Student Signature: _____ **Date:** _____

Advisor Signature: _____ **Date:** _____

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