

Applied Mathematical Sciences—Major Requirements for BS Degree

Physics Emphasis Track

Fall 2010

University of California, Merced

Anticipated Graduation Date (ex: May 2010) _____

Full Name: _____ ID: _____ Email: _____

Phone: _____

Requirement/ Course Dept #	Course Title	Grade	Units Required	Term Completed	Substitute Approved
UCM Requirements					
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)			4		
School Requirements					
World at Home II (CORE 100 or replacement)			4		
Calculus I (MATH 021)			4		
Probability & Statistics (MATH 032)			4		
Introduction to Physics I (PHYS 008)			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 (course approved by NS-for a list please see your advisor)			4		
UD Social Science/Humanities Elective			4		
Freshman Seminar (optional)			1		
Major/Core Requirements					
Contemporary Biology (BIO 01) or * (BIO 01 and BIO 01L) or (ESS 01 or ESS 05)			4		
Calculus of a Single Variable II (MATH 22)			4		
Vector Calculus (MATH 23)			4		
Linear Algebra and Differential Equations (MATH 24)			4		
Introduction to Physics II (PHYS 009)			4		
Complex Variables & Applications (MATH 122)			4		
Intermediate Differential Equations (MATH 125)			4		
Partial Differential Equations (MATH 126)			4		
Numerical Analysis I (MATH 131)			4		
Numerical Analysis II (MATH 132)			4		
Linear Analysis I (MATH 141)			4		
Physics Track (20 units)					
Introductory Physics III (PHYS 10)			4		
Analytical Mechanics Core (PHYS 105)			4		

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Electrodynamics Core (PHYS 110)			4		
Statistical Mechanics Core (PHYS 112)			4		
Quantum Physics (PHYS 137)			4		
Other/Elective/Non-Course Requirements					
Free Electives to meet 120 units			10		

Notes/Comments:
Advisor Signature/Date:
Student Signature/Date:

Academic Advisor for Applied Math Students:

Angie Salinas (acendejas@ucmerced.edu)

Science & Engineering 370

Faculty Contact for Applied Math Students:

Francois Blanchette (fblanchette@ucmerced.edu)

Science & Engineering 348

Helpful Websites:

NS Advising: <http://ns-advising.ucmerced.edu>

Tutoring Assistance: <http://learning.ucmerced.edu>

Career Services: <http://careerservices.ucmerced.edu>

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