

California State University, Bakersfield
REQUIREMENTS FOR THE MAJOR PHYSICS

2013-2015 Catalog

Name	ID#
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INTRODUCTORY COURSES (23 UNITS or equivalent)		Units	Institution	Date	Grade
PHYS 207	Electrical Circuits	5	CSUB		
PHYS 221	Classical Physics I	6	CSUB		
PHYS 222	Classical Physics II	6	CSUB		
PHYS 223	Optics and Modern Physics	6	CSUB		

INTERMEDIATE COURSES (40 UNITS or equivalent)		Units	Institution	Date	Grade
PHYS 307	Circuit Theory and Electronics	5	CSUB		
PHYS 321	Classical Mechanics	6	CSUB		
PHYS 322A	Thermal Physics	3	CSUB		
PHYS 322B	Statistical Mechanics	3	CSUB		
PHYS 323A	Electricity and Magnetism I	3	CSUB		
PHYS 323B	Electricity and Magnetism II	3	CSUB		
PHYS 324	Modern Physics	6	CSUB		
PHYS 411A	Quantum Mechanics I	3	CSUB		
PHYS 411B	Quantum Mechanics II	3	CSUB		
PHYS 490	Senior Seminar	5	CSUB		

ELECTIVE COURSES (10-12 UNITS or equivalent)		Units	Institution	Date	Grade
Two from: PHYS 313A,B; PHYS 313A,C; PHYS 323C; PHYS 325; PHYS 412 A,B; PHYS 412A, PHYS 477 (5 units); PHYS 480 (5 units)					
PHYS		5/6	CSUB		
PHYS		5/6	CSUB		

REQUIRED COGNATES (37 UNITS or equivalent)		Units	Institution	Date	Grade
MATH 201 or 231	Calculus I	5	CSUB		
MATH 202 or 232	Calculus II	5	CSUB		
MATH 203 or 233	Calculus III	5	CSUB		
MATH 204 Or 234	Calculus IV	5	CSUB		
MATH 205	Ordinary Differential Equations	5	CSUB		
MATH 222	Laboratory Experience	5	CSUB		
CHEM 211 /211L	Principles of General Chemistry I and Laboratory	5	CSUB		
CMPS 221	Programming Fundamentals	5	CSUB		

Approval:

Chair _____

Date _____