BACHELOR OF SCIENCE IN PHYSICS Major Requirements Worksheet 2013-2014 Catalog

Name:____

Student ID:

Note: This checklist is not intended to replace advising from the major department. Students should consult with the major advisor to determine the appropriate sequence of courses. This checklist is to inform students of major requirements and course prerequisites only. CSULB Enrollment Services prepares the Academic Requirements Report, which is the official graduation verification.

Grade	e Course #	Course Title	Need to take	Prerequisites
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Take ALL of the following courses

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Physics n	najors must have a " (C" average in the major, and must achieve a grade of "C" or bet	ter in each required course in the major
	PHYS 151	Mechanics and Heat (4)	MATH 122 Pre/Corequisite
	PHYS 152	Electricity and Magnetism (4)	PHYS 151; MATH 123
			Pre/Corequisite
	PHYS 254	Modern Physics and Light (3)	PHYS 152 or EE 210; MATH 224
			Pre/Corequisite
	PHYS 255	Laboratory on Light and Modern Physics (1)	PHYS 254 Pre/Corequisite
	CHEM 111A	General Chemistry I (5)	A passing score on the CPT**, and
			either MATH 113, or 117, or 119A,
			or 122. Also 1 year of HS
			chemistry**
	CHEM 111B	General Chemistry II (5)	CHEM 111A
	MATH 122	Calculus I (4)	MDPT placement** or MATH 111*
			and 113*, or MATH 117*
	MATH 123	Calculus II (4)	MATH 122
	MATH 224	Calculus III (4)	MATH 123
	MATH 247	Introduction to Linear Algebra (3)	MATH 123
Select (ONE of the follow	ving	
	BIOL 200	General Biology (4)	GE Foundation requirements
	BIOL 211	Evolution and Diversity (4)	CHEM 111A Pre/Corequisite

Upper Division (for upper division advising, see your faculty advisor). Take the following courses:

ENGL 317	Technical Writing (3)	GE Foundation requirements, upper-division
	ε	standing, and a previous composition course**
MATH 364A	Ordinary Differential Equations I (3)	MATH 224, and Pre/Corequisite:
		MATH 247
MATH	An additional upper-division math course	Check the catalog for the
		Prerequisites for the class you choose

Take ALL of the following courses:

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	PHYS 310	Analytic Mechanics (3)	PHYS 151. Corequisite: MATH		
			364A or 370A		
	PHYS 320	Thermodynamics (3)	PHYS 152. Pre/Corequisite, PHYS 254		
	PHYS 340A	Electricity and Magnetism I (3)	PHYS 152, 310. Pre/Corequisite		
			MATH 370A or 363A		
	PHYS 340B	Electricity and Magnetism II (3)	PHYS 340A		
	PHYS 350	Modern Physics (3)	PHYS 310; MATH 370A or 364A		
	PHYS 360	Physics with Symbolic Algebra Software (3)	PHYS 254. Pre/Corequisite: MATH 247		
	PHYS 380	Electronics (4)	PHYS 152		
	PHYS 450	Quantum Physics I (3)	PHYS 310, 340A, 350		

Take **ONE** laboratory course chosen from: PHYS 445, 446, 476 and 480. The remaining (*up to 8*) units are to be chosen from any upper-division physics courses.