BACHELOR OF SCIENCE IN PHYSICS

Major Requirements Worksheet 2012-2013 Catalog

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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.

rade	Course #	Course Title	Need to take	Prerequisites
	LL of the follow	wing courses "" average in the major, and must achieve a grade of "C" or	hetter in each v	cognized course in the major
nysics m	PHYS 151	Mechanics and Heat (4)		MATH 122 Pre/Corequisite
	PHYS 152	Electricity and Magnetism (4)		PHYS 151; Pre/Corequisite: MATH 123
	PHYS 254	Modern Physics and Light (3)		PHYS 152 <i>or</i> EE 210;
	11113 234	Wodern I mysics and Light (3)		Pre/Corequisite: MATH 224
	PHYS 255	Laboratory on Light and Modern Physics (1)		Pre/Corequisite: PHYS 254
	CHEM 111A	General Chemistry I (5)		A passing score on the CPT**, and either
	CHEMITTA	General Chemistry I (5)		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* or 222*
	MATH 247	Introduction to Linear Algebra (3)		MATH 123 or 222
elect (ONE of the follo	e v	<u> </u>	3.2.2.2.2.2.2.3.
	BIOL 200	General Biology (4)		GE Foundation requirements
	BIOL 211	Evolution and Diversity (4)		CHEM 111A (pre/Corequisite)
pper]		per division advising, see your faculty advisor). Take the	
	ENGL 317	Technical Writing (3)		GE Foundation requirements, upper-division standing, and a previous composition course
	MATH 364A	Ordinary Differential Equations I (3)		MATH 222 or 224, and
		•		Pre/Corequisite: MATH 247
	MATH	An additional upper-division math course		Check the catalog for the
		11		Prerequisites for the class you choos
ake A	LL of the follo	wing courses:		
	PHYS 310	Analytic Mechanics (3)		PHYS 151. Corequisite: MATH 364A <i>or</i> 370A
	PHYS 320	Thermodynamics (3)		PHYS 152. Pre/Corequisite, PHYS 254
	PHYS 340A	Electricity and Magnetism I (3)		PHYS 152, 310. Pre/Corequisite

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.

Electricity and Magnetism II (3)

Physics with Symbolic Algebra Software (3)

Modern Physics (3)

Quantum Physics I (3)

Electronics (4)

PHYS 340B

PHYS 350

PHYS 360 PHYS 380

PHYS 450

MATH 370A or 363A

PHYS 310, 340A, 350

PHYS 310; MATH 370A *or* 363A PHYS 254. Pre/Corequisite: MATH 247

PHYS 340

PHYS 152