College of Letters and Sciences B.S. Degree Requirements For Secondary Education Licensure in Physics

1) Co	ommunications & Calculations Skills (12 units or waivers)	1)	Physics Major (34 units) a) Select 1 group
	a)ENGLISH 101 b)ENGLISH 102 orENGLISH 105 Freshmen Honors		PHYSCS 180 orPHYSCS 140 PHYSCS 181PHYSCS 141
	(replaces both 101 and 102) c)SPEECH 110 d)MATH 140 or 141		b) Select 2 units ofPhysics 190
			c) Required physics courses
2) B.S. Degree Requirements (32 units)			(1)PHYSCS 221 (2)PHYSCS 305
a)	Quantitative and Technical Reasoning (7-11 units)		(3)PHYSCS 310 (4)PHYSCS 324
	(1)A 4-5 unit laboratory science designated <i>GL</i> (2)3 - 6 units of science, math or computer science courses designated GL or GM from at least 1		(5)PHYSCS 344 (6)PHYSCS 489
	subject area other than the laboratory science course used in Area 2.a.1 (Astronomy, Biology, Chemistry, Geology, Computer Science, Physical Geography, Math Physics)		d) Select remaining units from ASTRONMY 112 and courses numbered 300 or 400 with no more than 3 units from 490-499
b)	Cultural Heritage (6 units)		e) Writing (3 units) 1)ENGLISH 370 orENGLISH 372 RLS
	1)GENED 110 2)GENED 390		f) Departmental Exit Interview
		2)	Licensure (41 units) a) Educational Foundations
c)	Communities (6 units)		
	1)GENED 130 2)GENED 120 or 140		1)EDFOUND 212 2)EDFOUND 243 3)EDFOUND 425 4)EDFNDPRC 210
d)	Personal Health and Well-being (1-2 units)	b)	Curriculum and Instruction
	1)PEGNRL 192 2)0-1 unit in HPRC courses designated <i>GP</i>		1)SECNDED 429 2)SECNDED 466 3)CIFLD 492 (select 3 units)
e)	Electives (7-12 units)	-)	
	1)Additional electives designated <i>GA</i> , <i>GE</i> , <i>GH</i> , <i>GI</i> , or <i>GS</i> ; no more than 1 course from any one discipline may be counted in electives	c)	Student Teaching (1)CIFLD 402 (2 units) & CIFLD 414 (12 units) or select (2)CIFLD 404 (2 units) & CIFLD 412 (12 units)
3)	Diversity (3 units)	d)	Interdepartmental
a)	Any diversity course listed in 2010-12 Catalog pg 38.		1)SPECED 205 (select 3 units)
		e)	Select one of the following (3 units)
			1)GEOGRPHY 252 orBIOLOGY 214
		3)	Mathematics Secondary Ed Emphasis Minor (24 units)
			a)MATH 253 Choose one: b)MATH 254MATH 355 or 452 c) MATH 280
			d)MATH 359