College of Letters and Sciences B.S. Degree Requirements For Engineering with a Mathematics Minor

1) Communications & Calculations Skills (12 units or waivers)		1) Physics (38 units)
	a)ENGLISH 101 b)ENGLISH 102 orENGLISH 105 Freshmen Honors (replaces both 101 and 102) c)SPEECH 110 d)MATH 140 or 141	a) (1)PHYSCS 180 (2)PHYSCS 181 (3)PHYSCS 221 (4)PHYSCS 305 (5)PHYSCS 310 (6)PHYSCS 324 (7)PHYSCS 330
2) B.S. Degree Requirements (32 units)		(8)PHYSCS 331 (9)PHYSCS 344 (10)PHYSCS 360
a)	Quantitative and Technical Reasoning (7-11 units)	(11)PHYSCS 489
	(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 subject area other than the laboratory science course used in Area 2.a.1 (Astronomy, Biology, Chemistry, Geology, Computer Science, Physical Geography, Math Physics)	 b) Select 2 units ofPHYSCS 190 c) Select remaining units from Physics courses numbered 300 or 400 with no more than 3 units from 490-499 courses d) Departmental Exit Interview
b)	Cultural Heritage (6 units)	
	1)GENED 110 2)GENED 390	 2) Major – Unique Requirement (22 units) a) (1)CHEM 102 (2)CHEM 104
c)	Communities (6 units)	(3)MATH 255* (4)MATH 355* (5)MATH 361*
	1)GENED 130 2)GENED 120 or 140	b) Choose one
d)	Personal Health and Well-being (1-2 units)	COMPSCI 347, COMPSCI 172 or COMPSCI 174
	1)PEGNRL 192 2)0-1 unit in HPRC courses designated <i>GP</i>	3) Writing
e)	Electives (7-12 units)	ENGLISH 370 OR ENGLISH 372 RLS
	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	4) Mathematics Minor (22 units)
3)	Diversity (3 units)	1)MATH 253 2)MATH 254 3)MATH 255* 4)MATH 361 or MATH 280
a)	Any diversity course listed in 2010-12 Catalog pg 38.	5)Select remaining units from Math courses numbered 300 or higher except MATH 375.
		*These courses are also listed under the physics major