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

1) Communications & Calculations Skills (12 units or waivers)
   a) ____ENGLISH 101
   b) ____ENGLISH 102
      or ____ENGLISH 105 Freshmen Honors
         (replaces both 101 and 102)
   c) ____SPEECH 110
   d) ____MATH 140 or 141

2) B.S. Degree Requirements (32 units)
   a) Quantitative and Technical Reasoning (7-11 units)
      (1) ____A 4-5 unit laboratory science designated GL
      (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) Cultural Heritage (6 units)
      1) ____GENED 110
      2) ____GENED 390
   c) Communities (6 units)
      1) ____GENED 130
      2) ____GENED 120 or 140
   d) Personal Health and Well-being (1-2 units)
      1) ____PEGNRL 192
      2) ____0-1 unit in HPRC courses designated GP
   e) ____Electives (7-12 units)
      1) ____Additional electives designated GA, GE, GH, GI,
         or GS: no more than 1 course from any one discipline
         may be counted in electives
   3) Diversity (3 units)
      a) ____Any diversity course listed in 2010-12 Catalog pg 38.

1) Physics (38 units)
   a) (1) ____PHYSICS 180
      (2) ____PHYSICS 181
      (3) ____PHYSICS 221
      (4) ____PHYSICS 305
      (5) ____PHYSICS 310
      (6) ____PHYSICS 324
      (7) ____PHYSICS 330
      (8) ____PHYSICS 331
      (9) ____PHYSICS 344
      (10) ____PHYSICS 360
      (11) ____PHYSICS 489
   b) Select 2 units of ____PHYSICS 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

2) Major – Unique Requirement (22 units)
   a) (1) ____CHEM 102
      (2) ____CHEM 104
      (3) ____MATH 255*
      (4) ____MATH 355*
      (5) ____MATH 361*
   b) Choose one
      ____COMPSCI 347, COMPSCI 172 or
      COMPSCI 174
   c) Select remaining units from Physics courses numbered
      300 or 400 with no more than 3 units from 490-499 courses.

3) Writing
   ____ENGLISH 370 OR ENGLISH 372 RLS

4) Mathematics Minor (22 units)
   1) ____MATH 253
   2) ____MATH 254
   3) ____MATH 255*
   4) ____MATH 361 or MATH 280
   5) ____Select remaining units from Math courses
      numbered 300 or higher except MATH 375.

*These courses are also listed under the physics major requirements

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