Materials Science and Engineering Area of Concentration Form

Students must complete both sections of this form by the end of their junior year of study.

If you change your concentration, a new form must be submitted immediately.

To complete the technical electives requirement for the Bachelor of Science degree, MSE majors choose an area of concentration. If you are not taking all of the courses listed below under a pre-approved concentration, you and your advisor may create an original specialization. At least two of the five electives must be 300-level Materials Science and Engineering courses. The rest are in the sciences, engineering, or math. No more than two of the remaining may be 200-level courses. None may be 100-level courses. Only one may be a 399. No MSE- and only one non-MSE course may be taken pass/fail.

I. Please check the concentration you expect to follow.

Biomaterials
Chem 210-1, Mat_Sci 336, 370, 371 or 372; Bmd_Eng 343, 371

Design and Manufacturing
Mech Eng 317, 359, 365, Mat_Sci 318, Mf Eng 398 and Mat_Sci 340 or 355

Electronic Materials
ECE 250, Mat_Sci 337, 355, 382; Physics 335

Metals & Ceramics
Mat_Sci 333, 340, 341, 360, 371, 382; Mech Eng 365, 381

Nanomaterials
Chem 360, Mat_Sci 355, 360, 371, 376; Mech_Eng 381, 385; Physics 358

Polymeric Materials
Chem 210-1, Mat_Sci 333, 336, 337, 371; Mat_Sci 370 or 372; Chem_Eng 361

Surface Science
Mat_Sci 355, 360, 380; Physics 335; Mech Eng 320, 346

Energy Materials
Mat_Sci 318, 333, 337, 376, 381, 382

Other:
(To be developed by the student and advisor.)

II. Please list the courses that create the concentration and the terms in which they have been or will be taken:

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Student’s Signature ________________________________ Date ______________

Adviser’s Signature ________________________________ Date ______________

Assistant Chair’s Signature __________________________ Date ______________

Please return to the Materials Science Office, Cook 2036.

2/12/2013