

Name _____ EMPID _____ Year of Study _____ Expected Graduation Date _____

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, 371, 370 or 395 (Biomaterials); 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, 395 (Fuel cells); Physics 335

_____ **Metals & Ceramics**

Mat_Sci 333, 340, 341, 360, 371, 395 (Fuel cells); Mech Eng 365, 381

_____ **Nanomaterials**

Chem 360 (renamed; was Chem 250), 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 395 (Biomaterials); 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, 395 (Fuel Cells)

_____ **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:

Catalog #	Course title	Term	Catalog #	Course title	Term
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Student's Signature _____ Date _____

Adviser's Signature _____ Date _____

Assistant Chair's Signature _____ Date _____