

CME CURRICULUM (Effective Fall 2005)

FRESHMAN:

2 – CES 102 Engr Discipline & Skills
4 – CH 101 General Chemistry
3 – ENGL 103 Accelerated Composition
4 – MTHSC 106 Calculus of One Var I
3 – A&H¹ or SS¹

16 hours

4 – CH 102 General Chemistry
2 – ENGR 141 Programming & Problem Solving
4 – MTHSC 108 Calculus of One Var II
3 – PHYS 122 Physics
3 – A&H¹ or SS¹

16 hours

SOPHOMORES:

3 – CME 210 Intro to Mat'l Science
4 – MTHSC 206 Calculus of Several Variables
3 – PHYS 221 Physics with Cal. I
6 – A&H¹ or SS¹

16 hours

1 – CME 241 Metrics Lab
2 – EG 208 Engr. Graphics w/Comp.Appl
3 – CE 201 Statics
4 – MTHSC 208 Intro to Ord..Diff.Equations
3 – MS&E 324 Statistics for Mat Sci. & Engr.
3 – A&H¹ or SS¹

16 hours

JUNIOR:

3 – CME 319 Materials Processing I
3 – CME 326 Thermodynamics of Mat'ls
3 – CME 327 Transport Phenomena
3 – COMM 250 Public Speaking
3 – ENGL 314 Technical Writing

15 hours

3 – CME 328 Phase Diagrams
2 – CME 342 Structure / Property Lab
3 – CME 361 Processing of Metals & Composites
3 – CME 422 Mechanical Properties of Mat'l's
3 – IE 384 Engineering Economics
3 – PFC 303 Organic Chemistry

17 hours

SENIORS:

3 – CME 402 Solid State Materials
3 – CME 413 Non Crystalline Materials
3 – CME 432 Manuf. Process & Systems
1 – CME 441 Manuf. Laboratory
3 – PFC 415 Introduction to Polymer Science
3 – MS&E 491 Undergraduate Research

16 hours

3 – CME 407 Senior Capstone Design
3 – CME 416 Electronic Properties of Mat'ls
3 – CME 424 Optical Properties of Mat'ls
3 – CME 433 Combustion Systems/Envir Emissions
1 – CME 445 Practice of Materials Engineering

13 hours

125 hours total

¹See Policy on Social Science and Humanities for Engineering Curricula. Six of these credit hours must also satisfy General Education Cross-Cultural Awareness and Science and Technology in Society Requirements.

Revised Feb 2010