### Department of Chemical Engineering
### Fall 2016—Spring 2018
### Undergraduate Elective Courses

#### Fall 2016
- CM 2200—Intro to Minerals and Materials (3 cr)
- CM 3450—Computer-Aided Problem Solving (3 cr)**
- CM 3979—Alternative Energy Technology and Processes (1 cr)
- CM 4000—Undergraduate Research (1-3 cr)
- CM 4020—U-Grad Research in Mineral Proc (1-3 cr)
- CM 4040—U-Grad Research in Bioengineering(1-3 cr)
- CM 4060—U-Grad Research in Polymer Eng’g (1-3 cr)
- CM 4080—U-Grad Research in Biofuels Eng’g (1-3 cr)
- CM 4610—Introduction to Polymer Science (3 cr) (*may not be used as a core engineering elective*)
- CM 4631—Polymer Science Laboratory (2 cr)** (*may not be used as a core engineering elective*)
- CM 4655—Polymer Rheology Lab (1 cr)
- CM 4665—Polymer Rheology Lab (1 cr)

#### Spring 2017
- CM 3825—Sampling, Statistics and Instrumentation (2 cr)**
- CM 3830—Mineral Processing and Extraction Lab (1 cr)
- CM 4000—Undergraduate Research (1-3 cr)
- CM 4020—U-Grad Research in Mineral Proc (1-3 cr)
- CM 4040—U-Grad Research in Bioengineering(1-3 cr)
- CM 4060—U-Grad Research in Polymer Eng’g (1-3 cr)
- CM 4080—U-Grad Research in Biofuels Eng’g (1-3 cr)
- CM 4620—Polymer Chemistry (3 cr) (*may not be used as a core engineering elective*)
- CM 4740—Hydrometallurgy/Pyrometallurgy (4 cr)
- CM 4990 – Industrial Manufacturing Processes (3 cr)

**These courses are only offered every other year and will not be offered in 2017-2018.

#These courses are only offered every other year and will not be offered in 2018-2019.

All chemical engineering electives may be used as technical electives. In addition, these courses (except CM/CH 4610, CM/CH 4631, and CM/CH4620) can be used towards the core engineering elective requirement.