Michigan Technological University
Minor in Mineral Processing
Program Code CMMP, Academic Year 2026-2027
Department of Chemical Engineering
Minimum Credits Required: 18

Required Mineral Processing and Mineralogy Courses: 11 credits

- CM 2200 Intro to Minerals & Materials (3) *Prereqs: none*
- CM 3830 Mineral Processing and Extraction Lab (1) *Prereqs: CM2110(C) or CM2200(C)*
- GE 2300 Mineral Science (3) *Prereqs: CH1000 or CH1112 or (CH1150 and CH1151). Restrictions: May not be a Freshman*
- CM/MSE 4740 Hydrometallurgy/Pyrometallurgy (4) *Prereqs: CH1150. Restrictions: May not be a Freshman or Sophomore*

Thermodynamics Courses: select one course for 3 or 4 credits

- CM 3230 Thermodynamics for Chem Engineering (4) *Prereqs: CM2110 and MA2160 and PH2100*
- CEE 3200 Thermo/Fluid Mechanics (4) *Prereqs: CH1150 and CH1151 and PH2100 and (ENG1101 or ENG1101T or CS1111 or CS1121 or CS1131) and MA2160*
- ME/MEEM 2201 Introductory Thermodynamics (3) *Prereqs: MA2160 and CH1150 and CH1151. Restrictions: Must be enrolled in College of Engineering*
- MSE 3100 Materials Processing I (3) *Prereqs: (MY2100 or MSE2100 or BE2800) and MA2160*

Elective Courses: select remaining 3 to 4 credits

- CM 4020 Undergrad Research in Mineral Processing Engineering (1-3) *Prereqs: none*
- CM 4505 Particle Technology (3) *Prereqs: none*
- CM 4510 Interfacial Engineering (3) *Prereqs: CH3510*
- EC 4630 Mineral Industry Economics (3) *Prereqs: EC2001*
- ENT 3XXX-4XXX Enterprise Project Work (1-4) *Topic must be approved by minor academic advisor*
- GE 3440 Drilling and Blasting (4) *Prereqs: GE2020 and PH2100 and MA2160*
- GE 4360 Bulk Materials Dynamics & Engineering (3) *Prereqs: PH2100 and GE2320 and ENG2120*
- MSE 2130 Materials Characterization I (4) *Prereqs: MSE2110(C)*