Michigan Technological University
Minor in Mining Engineering
Program Code EMGM, Academic Year 2023-24
Department of Geological and Mining Engineering and Sciences
Total Credits Required: 18

Required Courses: 6 credits
- GE 2020 Intro to Mining Engineering and Mining Methods (2) **Prereqs: none**
- GE 2320 Mining Methods and Systems (2) **Prereqs: GE2020**

Elective Courses: 12 credits
- GE 3400 Drilling and Blasting (3) **Prereqs: GE2020 and PH2100**
- GE 3890 Eng Geology & Rock Mechanics (3) **Prereqs: (GE2000 or GE2100) and (GE3050 or ENG2120 or MEEM2150)**
- GE 3870 Resource and Reserve Estimation (3) **Prereqs: GE2020 and MA3710**
- GE 3880 Mine Planning and Design (3) **Prereqs: GE2320 and GE3400 and GE3870**
- GE 4290 Mine Ventilation Engineering (3) **Prereqs: GE2020 and GE2320 and ENG3200**
- GE 4360 Bulk Materials Dynamics & Engineering (3) **Prereqs: PH2100 and GE2320 and ENG2120**
- GE 4680 Operations Research for Mining Engineers (3) **Prereqs: GE2020 or GE2320**
- GE 4934 Special Topics in Mining Engineering (1-5) **Prereqs: none**

Additional Electives: 0 to 5 credits
Students must consult with a departmental advisor to select additional elective courses